Chiller Core



Application for the management of chillers and heat pumps Code FLCOR_CH0E







Integrated Control Solutions & Energy Savings





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DISPOSAL



INFORMATION FOR USERS ON THE CORRECT HANDLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

In reference to European Union directive 2002/96/EC issued on 27 January 2003 and the related national legislation, please note that:

- WEEE cannot be disposed of as municipal waste and such waste must be collected and disposed of separately;
- the public or private waste collection systems defined by local legislation must be used.
 In addition, the equipment can be returned to the distributor at the end of its working life when buying new equipment;
- the equipment may contain hazardous substances: the improper use or incorrect disposal of such may have negative effects on human health and on the environment;
- the symbol (crossed-out wheeled bin) shown on the product or on the packaging and
 on the instruction sheet indicates that the equipment has been introduced onto the
 market after 13 August 2005 and that it must be disposed of separately;
- in the event of illegal disposal of electrical and electronic waste, the penalties are specified by local waste disposal legislation.

KEY TO THE ICONS



NOTE: to bring attention to a very important subject; in particular, regarding the practical use of the various functions of the product.



IMPORTANT: to bring critical issues regarding the use of the Blast Chiller to the attention of the user.



TUTORIAL: some simple examples to accompany the user in configuring the most common settings.

<u>CAREL</u>



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1. INTRODUCTION

1.1 Main features

Tool for developers - Chiller Core is the exclusive new application that includes all the essential functions for managing the operation of chillers-heat pumps; it is a tool designed for 1tool developers who need a solid base to start creating custom applications.

Easy to customise - Chiller Core is arranged into modules, meaning the code is easy to follow and edit. Each function of Chiller Core is readily customisable according to needs.

Ideal for field tests - thanks to its extreme flexibility, Chiller Core is the ideal tool for checking the operation of chillers during testing and service.

Usability and display - ChillerCore, developed in line with the new CAREL usability standards, assists the manufacturer in the configuration of the installation. The menu-based system (available on the pGD1 terminal) allows the application to be configured as a tool for instant diagnostics. All this is possible by the immediately accessible overview screens and the commissioning tool.

Quick menus - information on the status of the chiller is accessible directly from the main menu, without needing to access the submenus. Configuration, active function and operating temperature information are arranged in loops of screens, scrolled by pressing the DOWN button from the main screen.

User manual - this manual, as well as describing the features and the operation of the application, guides the developer in understanding and editing the source code.

List of functions:

Main features*	Up to 3 hermetic compressors per circuit
	Up to 4 circuits
	1-4 evaporator circuits
	1-2 condenser units
Hardware	pCO3 / pCO5medium and large,
	PGD1
Unit configuration	Air/water chiller – heat pump
	Water/water chiller – heat pump
Languages	Italian
	English
Unit of measure	Temperature: °C, °F
Offic of fileasure	Pressure: bar, psi (all pressure values are also expressed as temperatures)
	Date format selectable between: dd/mm/yy, mm/dd/yy, yy.mm.dd
Control	P. Pl. PID on water inlet temperature
Control	Dead zone on water outlet temperature
Compressor rotation*	FIFO
Compressor rotation	LIFO
	By time
	Custom
	Fixed (the order of activation and deactivation can be set)
	Possibility to choose to distribute capacity between circuits
EVD EVO driver	Full management of EVD EVO drivers in pLAN, with specific parameters depending on working mode (Cooling, Heating, Defrosting)
LVD LVO UNVCI	Twin mode configuration when used in 2-3-4 circuit unit
Scheduling by calendar	For each time band, the following can be managed: unit on-off and 2 different control set points for CH and HP
carroadining by caroniaar	4 daily time bands
	3 special periods (e.g.: store closing times)
	6 special days (e.g.: holidays)
Set point	Up to 2 set points for chiller operation and 2 for heat pump (scheduler)
	Compensation based on outside temperature
Evaporator pumps	1-2 pumps
The second secon	Management of attempts to recover water flow with 1 and 2 pumps
	Rotation by time or to replace faulty pump (e.g.: overload, no flow)
	Anti-blocking management on extended inactivity
Condenser pumps	Same functions as for the evaporator pumps
Condenser control	1-2 condenser units
	Speed modulation based on high pressure
Defrost	Silmutaneous
	Separate
Prevention	High pressure
	Low pressure
	Antifreeze
Alarms	Automatic and manual management
	Log from application
	Log from Bios
Supervisor protocol	Carel
· ·	Modbus

^{*} The compressor rotation module includes other functions not mentioned here, such as: up to 4 compressors per circuit, management of up to 3 capacity steps per compressor, management of compressors with inverter, order of activation between compressors and capacity steps, fixed rotation with compressors of different capacities, etc....



1.2 Components and accessories

Chiller Core is optimised for the pCO3 / pCO5 medium/Large.

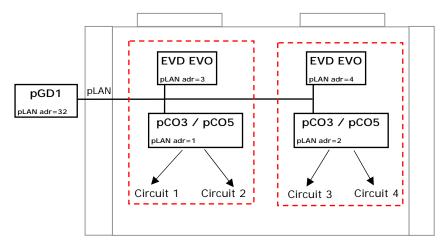


Fig 1.a

pLAN address 1 = Master manage circuit 1 and 2

pLAN address 2 = Slave manage circuit 3 and 4 pLAN address 3 = EVD EVO to drive the EEV for circuit 1 and 2

pLAN address 4 = EVD EVO to drive the EEV for circuit 3 and 4

The unit is configured from the Master board, and consequently the various user interface menus can only be accessed if the terminal is communicating with the board set to address 1. If the terminal is communicating with a board whose address is other than 1, the following screen is displayed:



Fig 1.b



1.3 I/O configurations - types of unit

1.3.1 pCO3 / pCO5 Medium CH/HP - air/water

	1-4 circ. 1-8 comp. 1 evap. 1-2 co	ond.	1-4 circ. 1-8 comp. 2-4 evap. 1-2	cond.
Analogue inputs	Master	Slave	Master	Slave
B1	High pressure circuit 1	High pressure circuit 3	High pressure circuit 1	High pressure circuit 3
B2	Low pressure circuit 1	Low pressure circuit 3	Outside temp./	Low pressure circuit 3
			Low pressure circuit 1	
B3	Control water outlet temp.		Control water outlet temp.	
B4	Control water inlet temp.		Control water inlet temp.	
B5			Evap. 1 water outlet temp.	Evap. 3 water outlet temp.
B6	High pressure circuit 2	High pressure circuit 4	High pressure circuit 2	High pressure circuit 4
B7	Low pressure circuit 2	Low pressure circuit 4	Low pressure circuit 2	Low pressure circuit 4
B8	Outside temp.		Evap. 2 water outlet temp.	Evap. 4 water outlet temp.
Digital inputs				
ID1	High pressurestat circuit 1	High pressurestat circuit 3	High pressurestat circuit 1	High pressurestat circuit 3
ID2	Low pressurestat circuit 1	Low pressurestat circuit 3	Low pressurestat circuit 1	Low pressurestat circuit 3
ID3	Remote on-off	· ·	Remote on-off	
ID4	Cool/heat changeover		Cool/heat changeover	
ID5	Evaporator water flow		Evaporator water flow	
ID6	Comp. 1 overload circ. 1	Comp 1 overload circ. 3	Comp. 1 overload circ. 1	Comp 1 overload circ. 3
ID7	Comp. 2 overload circ. 1	Comp 2 overload circ. 3	Comp. 2 overload circ. 1	Comp 2 overload circ. 3
ID8	Serious alarm	Comp 2 ovended circ. 5	Serious alarm	Comp 2 overload circ. 3
ID9	High pressurestat circuit 2	High pressurestat circuit 4	High pressurestat circuit 2	High pressurestat circuit 4
ID10	Low pressurestat circuit 2	Low pressurestat circuit 4	Low pressurestat circuit 2	Low pressurestat circuit 4
ID10	Comp. 1 overload circ. 2	Comp. 1 overload circ. 4	Comp. 1 overload circ. 2	Comp. 1 overload circ. 4
ID11	Comp. 2 overload circ. 2	Comp. 2 overload circ. 4	Comp. 2 overload circ. 2	Comp. 1 overload circ. 4
		Evap. pump 2 overload	•	•
ID13 ID14	Evap. pump 1 overload	Evap. pump 2 ovenoad	Evap. pump 1 overload	Evap. pump 2 overload
1014				
Digital outputs				
NO1	Compressor 1 of circuit 1	Compressor 1 of circuit 3	Compressor 1 of circuit 1	Compressor 1 of circuit 3
NO2	Compressor 2 of circuit 1	Compressor 2 of circuit 3	Compressor 2 of circuit 1	Compressor 2 of circuit 3
NO3	Compressor 1 of circuit 2	Compressor 1 of circuit 4	Compressor 1 of circuit 2	Compressor 1 of circuit 4
NO4	Compressor 2 of circuit 2	Compressor 2 of circuit 4	Compressor 2 of circuit 2	Compressor 2 of circuit 4
NO5	Cond. fan unit 1		Cond. fan unit 1	
NO6	Cond. fan unit 2		Cond. fan unit 2	
NO7	Antifreeze heater		Antifreeze heater	
NO8	Serious alarm		Serious alarm	
NO9	Evaporator pump 1	Evaporator pump 2	Evaporator pump 1	Evaporator pump 2
NO10	Liquid solenoid 1	Liquid solenoid 3	Liquid solenoid 1	Liquid solenoid 3
NO11	Liquid solenoid 2	Liquid solenoid 4	Liquid solenoid 2	Liquid solenoid 4
NO12	4-way valve of circuit 1	4-way valve of circuit 3	4-way valve of circuit 1	4-way valve of circuit 3
NO13	4-way valve of circuit 2	4-way valve of circuit 4	4-way valve of circuit 2	4-way valve of circuit 4
Analogue				
outputs.	Cond 1 for speed regulater		Cond 1 for speed regulater	
Y1 (0-10V)	Cond.1 fan speed regulator		Cond.1 fan speed regulator	
Y2 (0-10V)	Cond. 2 fan speed regulator		Cond. 2 fan speed regulator	
Y3 (0-10V)				
Y3 (0-10V)	1			





1.3.2 pCO3 / pCO5 Medium CH/HP – water/water

	1-4 circ. 1-8 comp. 1 evap. 1 c	ond. with slave board only
Analogue inputs	Master	Slave
B1	High pressure circuit 1	High pressure circuit 3
B2	Low pressure circuit 1	Low pressure circuit 3
B3	Evap. water outlet temp.	
B4	Evap. water inlet temp.	
	Cond. water outlet temp. (used for condenser antifreeze on units with reversible refrigerant circuit) Cond. water inlet temp.	
B5	(used for control on units with reversible water circuit in heat pump operation)	
B6	High pressure circuit 2	High pressure circuit 4
B7	Low pressure circuit 2	Low pressure circuit 4
B8	Outside temp.	
Digital inputs		
ID1	High pressurestat circuit 1	High pressurestat circuit 3
ID2	Low pressurestat circuit 1	Low pressurestat circuit 3
ID3	Remote on-off	
ID4	Cool/heat changeover	
ID5	Evaporator water flow	
ID6	Comp. 1 overload circ. 1	Comp. 1 overload circ. 3
ID7	Comp. 2 overload circ. 1	Comp. 2 overload circ. 3
ID8	Serious alarm	
ID9	High pressurestat circuit 2	High pressurestat circuit 4
ID10	Low pressurestat circuit 2	Low pressurestat circuit 4
ID11	Comp. 1 overload circ. 2	Comp. 1 overload circ. 4
ID12	Comp. 2 overload circ. 2	Comp. 2 overload circ. 4
ID13	Evap. pump 1 overload	Evaporator pump 2 overload
ID14	Condenser water flow	
Digital outputs		
NO1	Compressor 1 of circuit 1	Compressor 1 of circuit 3
NO2	Compressor 2 of circuit 1	Compressor 2 of circuit 3
NO3	Compressor 1 of circuit 2	Compressor 1 of circuit 4
NO4	Compressor 2 of circuit 2	Compressor 2 of circuit 4
NO5	Condenser pump 1	
NO6	Condenser pump 2	
NO7	Antifreeze heater	
NO8	Serious alarm	
NO9	Evaporator pump 1	Evaporator pump 2
NO10	Liquid solenoid 1	Liquid solenoid 3
NO11	Liquid solenoid 2	Liquid solenoid 4
NO12	4-way valve of circuit 1	4-way valve of circuit 3
NO13	4-way valve of circuit 2	4-way valve of circuit 4
Analogue outputs		
Y1 (0-10V)		
Y2 (0-10V) Y3 (0-10V)		
Y4 (0-10V)		





1.3.3 pCO3 / pCO5 Large CH/HP - air/water

	1-4 circ. 1-12 comp. 2-4 evap. 1-2 cond.		
Analogue inputs	Master	Slave	
B1	High pressure circuit 1	High pressure circuit 3	
B2	Low pressure circuit 1	Low pressure circuit 3	
B3	Control water outlet temp.		
B4	Control water inlet temp.		
B5	Evap. 1 water outlet temp.	Evap. 3 water outlet temp.	
B6	High pressure circuit 2	High pressure circuit 4	
B7	Low pressure circuit 2	Low pressure circuit 4	
B8	Evap. 2 water outlet temp.	Evap. 4 water outlet temp.	
B9	Outside temp.		
B10	·		
Digital inputs			
ID1	High pressurestat circuit 1	High pressurestat circuit 3	
ID2	Low pressurestat circuit 1	Low pressurestat circuit 3	
ID3	Remote on-off		
ID4	Cool/heat changeover		
ID5	Evaporator water flow		
ID6	Comp. 1 overload circ. 1	Comp. 1 overload circ. 3	
ID7	Comp. 2 overload circ. 1	Comp. 2 overload circ. 3	
ID8	Serious alarm		
ID9	High pressurestat circuit 2	High pressurestat circuit 4	
ID10	Low pressurestat circuit 2	Low pressurestat circuit 4	
ID11	Comp. 1 overload circ. 2	Comp. 1 overload circ. 4	
ID12	Comp. 2 overload circ. 2	Comp. 2 overload circ. 4	
ID13	Evap. pump 1 overload		
ID14	Evap. pump 2 overload		
ID15	Comp. 3 overload circ. 1	Comp. 3 overload circ. 3	
ID16	Comp. 3 overload circ. 2	Comp. 3 overload circ. 4	
ID17			
ID18			
Digital outputs			
NO1	Compressor 1 of circuit 1	Compressor 1 of circuit 3	
NO2	Compressor 2 of circuit 1	Compressor 2 of circuit 3	
NO3	Compressor 1 of circuit 2	Compressor 1 of circuit 4	
NO4	Compressor 2 of circuit 2	Compressor 2 of circuit 4	
NO5	Condenser fan unit 1		
NO6	Condenser fan unit 2		
NO7	Antifreeze heater		
NO8	Serious alarm		
NO9	Evaporator pump 1		
NO10	Liquid solenoid of circuit 1	Liquid solenoid of circuit 3	
NO11	Liquid solenoid of circuit 2	Liquid solenoid of circuit 4	
NO12	4-way valve of circuit 1	4-way valve of circuit 3	
NO13	4-way valve of circuit 2	4-way valve of circuit 4	
NO14	Compressor 3 of circuit 1	Compressor 3 of circuit 3	
NO15	Compressor 3 of circuit 2	Compressor 3 of circuit 4	
NO16	Evaporator pump 2		
NO17			
NO18			
Analogue outputs			
Y1 (0-10V)	Cond. 1 fan speed regulator		
Y2 (0-10V)	Cond. 2 fan speed regulator		
Y3 (0-10V)			
Y4 (0-10V)			
Y5 (0-10V)			
Y6 (0-10V)			



1.3.4 pCO3 / pCO5 Large CH/HP - water/water

1.5.1	1-4 circ. 1-12 c	comp. 2-4 evap. 1-2 cond.
Analogue inputs	Master	Slave
B1	High pressure circuit 1	High pressure circuit 3
B2	Low pressure circuit 1	Low pressure circuit 3
	Control evaporator water outlet temp. /	
D7	Generic temp. (inlet or outlet) for control (on units with 2 evap. 2 cond. and reversible refrigerant circuit)	
B3	Control evaporator water inlet temp. /	+
	Condenser 2 water outlet temp.	Condenser 4 water outlet temp.
B4	(on units with 2 evap. 2 cond. and reversible refrigerant circuit)	(on units with reversible refrigerant circuit)
B5	Evaporator 1 water outlet temp.	Evaporator 3 water outlet temp.
B6	High pressure circuit 2	High pressure circuit 4
B7	Low pressure circuit 2	Low pressure circuit 4
B8	Evaporator 2 water outlet temp.	Evaporator 4 water outlet temp.
B9	Outside temp.	
	Condenser 1 water outlet temp.	
	(on units with reversible refrigerant circuit) / Condenser water inlet temp.	Condenser 3 water outlet temp.
B10	(on units with reversible water circuit during heat pump operation)	(on units with reversible refrigerant circuit)
,	(on arms when reversible water circuit during freat pamp operation)	(on this marrier size reingerant circuit)
Digital inputs	High access due 1	115-1
ID1	High press. circ. 1	High press. circ. 3
ID2	Low press. circ. 1	LP3
ID3 ID4	Remote on-off Cool/host changeover	
ID5	Cool/heat changeover Evaporator water flow	
ID6	Comp. 1 overload circ. 1	Comp. 1 overload circ. 3
ID7	Comp. 2 overload circ. 1	Comp. 2 overload circ. 3
ID8	Serious alarm	Comp. 2 overload circ. 3
ID9	High press. circ. 2	High press. circ. 4
ID10	Low press. circ. 2	Low press. circ. 4
ID11	Comp. 1 overload circ. 2	Comp. 1 overload circ. 4
ID12	Comp. 2 overload circ. 2	Comp. 2 overload circ. 4
ID13	Evaporator pump 1 overload	Comp. 2 orenous dire. 1
ID14	Evaporator pump 2 overload	
ID15	Comp. 3 overload circ. 1	Comp. 3 overload circ. 3
ID16	Comp. 3 overload circ. 2	Comp. 3 overload circ. 4
ID17	Condenser water flow	•
ID18		
Digital outputs		
NO1	Compressor 1 of circuit 1	Compressor 1 of circuit 3
NO2	Compressor 2 of circuit 1	Compressor 2 of circuit 3
NO3	Compressor 1 of circuit 2	Compressor 1 of circuit 4
NO4	Compressor 2 of circuit 2	Compressor 2 of circuit 4
NO5	Condenser pump 1	
NO6	Condenser pump 2	
NO7	Antifreeze heater	
NO8	Serious alarm	
NO9	Evaporator pump 1	
NO10	Liquid solenoid 1	Liquid solenoid 3
NO11	Liquid solenoid 2	Liquid solenoid 4
NO12	4-way valve circuit 1	4-way valve circuit 3
NO13	4-way valve circuit 2	4-way valve circuit 4
NO14	Compressor 3 of circuit 1	Compressor 3 of circuit 3
NO15	Compressor 3 of circuit 2	Compressor 3 of circuit 4
NO16	Evaporator pump 2	
NO17 NO18		
Analogue outputs		
Y1 (0-10V) Y2 (0-10V)		
Y3 (0-10V)		
Y4 (0-10V)		
Y5 (0-10V)		
Y6 (0-10V)		





Overview of control and antifreeze probes in the various configurations 1.3.5

Based on the unit configuration and the size of board (pCO3 / pCO5 medium – pCO3 / pCO5 Large), below is an overview of the control and antifreeze probes used on the evaporator and condenser.

Air/water units Type of unit	Reversible	Operating mode	Control probe	Evaporator antifreeze probe	Condenser antifreeze probe
Chiller	-	Cooling	Evap. inlet B4 or Evap. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ. 4 evap. outlet B8 slave.	Not required
Heat pump	-	Heating	Evap. inlet B4 or Evap. outlet B3	Not used	Not required
Chiller / Heat pump	Refrigerant side	Cooling or Heating	Evap. inlet B4 or Evap. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ. 4 evap. outlet B8 slave.	Not required

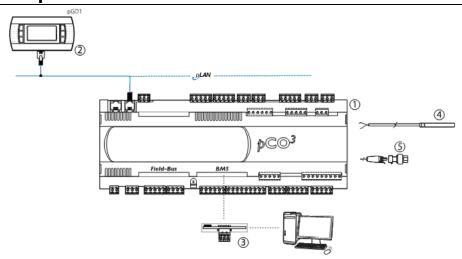
				Circ. 4 evap. outlet B8 slave.	
Water/water unit	ts				
Type of unit	Reversibility	Operating mode	Control probe	Evaporator antifreeze probe *	Condenser antifreeze probe**
Chiller	-	Cooling	Evap. inlet B4 or Evap. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B8 slave, Circ. 4 evap. outlet B8 slave.	Not required
Chiller / Heat pump	Water side	Cooling	Evap. inlet B4 or Evap. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ 4 evap. outlet B8 slave.	Not required
Chiller / Heat pump	Water side	Heating	Cond. inlet B5(pCO3 / pCO5 M), B10(pCO3 / pCO5 L)	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ. 4 evap. outlet B8 slave.	Not required
Chiller / Heat pump	Refrigerant side	Cooling	Evap. inlet B4 or Evap. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ. 4 evap. outlet B8 slave.	Not required
Chiller / Heat pump	Refrigerant side	Heating	Cond. inlet B4 or Cond. outlet B3	Control evap. outlet B3 or Circ. 1 evap. outlet B5 master, Circ. 2 evap. outlet B8 master, Circ. 3 evap. outlet B5 slave, Circ. 4 evap. outlet B8 slave.	PCOM: Cond. out. temp B5* PCOL: Circ. 1 cond. outlet B10 master* Circ. 2 cond. outlet B4 master* Circ. 3 cond. outlet B10 slave* Circ. 4 cond. outlet B4 slave*

^{*} for further details see the table in the chapter on "Evaporator antifreeze".
** for further details see the table in the chapter on "Condenser antifreeze".



2. HARDWARE FEATURES AND INSTALLATION

2.1 Features of the pCO board



Features of the pCO platform that the application is installed on:

Key		
	Description	Code
		PCO3000*L0 / PCO3000*M0
1	pCO ³ Medium, Large controller	PCO5000*L0 / PCO5000*M0
2	pDG1 panel or wall mounting + telephone cable	PGD1000 **0 + S90CONN00*
3	Serial card for BMS	Depends on the supervisor connected
4	Temperature sensors	TSC1500030, NTC*****00
5	Pressure sensors	SPKT00***0



3. START UP

The following systems can be used to update and install the Chiller Core application on the pCO board:

- pCO Manager;
- SmartKey programming key.

3.1 pCO Manager

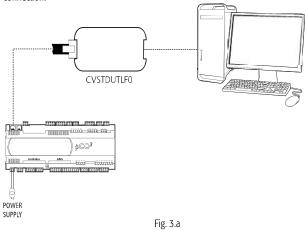
Note: Winload cannot be used to download Chiller Core to a pCO controller, as Winload cannot manage the user atom *.blx file.

All CAREL pCO sistema series 16 bit controllers (see the pCO sistema manual) can update their software from a PC.

CAREL provides a program called pCOLoad and a serial converter with RS485 output (code CVSTDUTLF0) to be connected to the pCO. The special driver, released by CAREL, also needs to be installed on the PC.

The program is included in the installation of the complete "1Tool" program suite or as part of the pCO Manager program, downloadable separately from http://ksa.CAREL.com under "download \rightarrow support \rightarrow software utilities".

The installation includes both the program and the user manual. The pCO controller can be connected directly to the PC via the RS485 serial port used for the "pLAN" connection or via the BMS serial port using the RS485 serial card (optional) for the "supervisor" connection.



Updating the BOOT is generally <u>NOT RECOMMENDED</u> by CAREL; during production CAREL always loads the BOOT required for the correct operation of the unit. Only in very special cases will CAREL ask the user to update the BOOT.

The BIOS can only be loaded via the pLAN serial connection.

Note: Minimum versions for downloading Chiller Core:

- pCO3 / pCO5 -pCO1 4.20
- Supernode 4.30

When updating the application and the BIOS, the pCO operating mode switches to low level. In this special mode, the logged data cannot be downloaded to the PC nor can the application be loaded in compressed format. To return the unit to normal communication mode, reset the pCO board.

If uploading the BOOT or BIOS files only, the other application files then need to be uploaded again.

The consequences of interruption to the upload procedure depend on the instant this occurs. In any case, the upload needs to be repeated. If pCOLoad cannot connect to the pCO, a Smart Key must be used to download the BIOS and any other operating application (e.g.: pCO functional test). This refreshes the pCO memory, allowing connection to pCOLoad.

3.1.1 Commissioning Tool

Commissioning tool is configuration and real-time monitoring software used to check the operation of an application installed on a pCO, for commissioning, debugging and maintenance.

This tool can be used to set the configuration parameters, set the values of volatile and permanent variables, save the trend in the main values of the unit to a file, manually manage the unit I/Os using a simulation file and monitor/restore the alarms on the unit where the device is installed.

Chiller CORE is already configured for the virtualisation of all the inputs and outputs, both digital and analogue. Consequently, all inputs and outputs can be overridden using the commissioning tool.

The configuration functions available on the commissioning tool allow the designer to decide which variables will be monitored/logged/plotted or monitored by event, to organise the variables into categories, and to choose the set of configuration parameters.

Support files

Following development of the application, 1tool generates various files during compilation; these include two that are required for commissioning:

<applicationName>.2CF (descriptive of variables)
<applicationName>.2CD (descriptive of categories and access profiles)

As well as these files, the <applicationName>.DEV file that contains the pre-defined set of unit parameters can also be managed.

When the commissioning procedure is complete, or for configuration or monitoring, the user can generate the following files:

<applicationName>.2CW (descriptive of categories, access profiles, monitoring groups)
<CommissioningLogFileName>.CSV (commissioning log file, containing the data on the variables recorded during monitoring)

For the configuration phase of the commissioning procedure, the following files must be available: .2CF, 2CD and where necessary .DEVELOPMENT, which can be imported and exported.

For the monitoring phase, as well as the files mentioned above, the .2CW file with the definition of the working environment may be required. The commissioning log file is an output file only.

Connection modes

Each controller has three serial ports (0, 1 and 2), each with its own default protocol:

Port	Default protocol	Description
Serial 0	pLAN	Connection to terminal and pLAN network
Serial 1	BMS	Connection to supervisor
Serial 2	FieldBus	Connection to field devices

There are two modes for commencing local communication between pCO Manager and the controller:

- 1) Activate the WinLoad protocol on the required port
- On BMS and FieldBus only, irrespective of the protocol set on the pCO, simply connect pCO Manager and from "Connection settings" select SearchDevice = Auto (BMS or FB). In this case it will take around 15-20 seconds to go online.

Memory limits

The periodical monitoring of the application variables is limited to a maximum of 250 WORDS, freely selectable from the entire memory available to the application. The virtualisation of application variables is limited to a maximum of 50 WORDS, selectable from the entire memory available to the application.

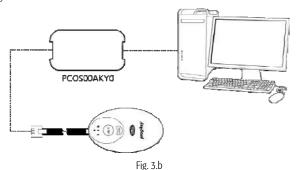
There are no address limits for "one-shot" read/write of individual variables: all memory addresses reserved for the application in all types of memory available on the pCO can be used: X memory, T memory, P memory, E memory.

Note: for further details on installing and updating the software on the pCO controller, see the online help for the pCO Manager program.



3.2 SmartKey

The SMARTKEY programming key can clone the contents of one pCO and then download the data to another identical pCO via the terminal telephone connector (the pLAN must be disconnected). This function is obviously available for all pCO controllers. In addition to this mode, the key can transfer the data logged on a series of pCO devices and download them to the PC. From the PC, using the SMARTKEY PROGRAMMER, the key can be configured to run certain operations: retrieve logs, program applications, program BIOS, etc. The SMARTKEY PROGRAMMER is installed together with pCO Manager. For further details see the online help for the SMARTKEY PROGRAMMER program and the SMARTKEY instruction sheet.



Note: for further details on installing and updating the software on the pCO controller, see the online help for the pCO Manager program.

3.3 Commissioning

When starting the pCO3 / pCO5 board that the application has been installed on, a screen is displayed to choose the program interface language.

Press ENTER to choose the required language.

Note: If no option is selected within the time defined by the corresponding parameter (in the service menu), the current language selected is used.

3.3.1 Setting the terminal address

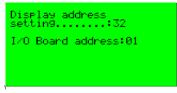


Fig. 3.0

To modify the address of the terminal ("Display address setting") carry out the following operations in sequence

- 1. Press once: the cursor will move to the "Display address setting" field.
- Select the desired value using and and and confirm by pressing again
 If the value selected is different from the value saved, the following screen will
 be displayed and the new value will be saved to the permanent memory on the
 displayer.

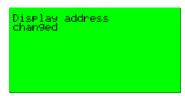


Fig. 3.d

If the address field is set to 0, the terminal communicates with the pCO board using the Local terminal protocol and the "I/O Board address" field disappears, as it no longer has any meaning. As stated, Chiller Core is optimised to operate with terminal address 32.

An automatic procedure configures the master pCO3 / pCO5 (with address 1 for communication with this terminal. The procedure starts when the pCO3 / pCO5 controller with address other than 0 detects communication with a device over the pLAN (terminal or other pCO). The procedure is only run once and can only be repeated after powering up the pCO3 / pCO5.

The pCO3 / pCO5 with the address set to 2 (slave) does not communicate with the terminal.

Important: if during operation the terminal detects inactivity on the pCO board it is connected to, the display is cancelled and a message similar to the one shown below is displayed.



Fig. 3.g

If the terminal detects inactivity of the entire pLAN network, that is, it does not receive any messages from the network for 10 seconds consecutively, the display is cancelled completely and the following message is shown:



Fig. 3.h

3.3.2 Setting the pCO board address

To complete the installation procedure, set the pLAN address of the pCO board; the pCO3 / pCO5 controllers do not have dipswitches for setting the pLAN network address: the pLAN address can be set from any pGD1 terminal.

- Set address 0 on the terminal (see the previous sections for details on how to select the address).
- Power down the pCO.
- 3. Disconnect any pLAN connections to other controllers from the pCO.
- Connect the terminal to the pCO.
- Power up the pCO, pressing the UP and ALARM buttons together on the terminal. After a few seconds, the pCO runs the start-up sequence and the display shows a screen similar to the following:

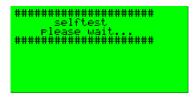


Fig. 3.i

- From the moment when the screen is displayed, wait 10 seconds and then release the buttons.
- The pCO interrupts the start-up sequence and shows a configuration screen similar to the following:

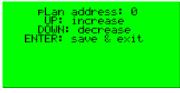


Fig. 3.1

Then change the pLAN address using the address on the terminal.

8. Confirm the address by pressing the pCO completes the start-up sequence and uses the address specified.

Important: if the settings have not been made correctly, the text and the images on the display will be shown in an incorrect and unorderly manner.



4. USER INTERFACE

4.1 Graphic terminal

The Chiller Core user interface is the pGD1 terminal, in the wall or panel mounted versions, or if necessary using the "built-in" terminal installed directly on the pCO3 / pCO5 board.



This terminal, illustrated in the figure above, features six buttons, with following meanings:

A	1
Alarm	display the list of active alarms.
Prg - Prg	enter the main menu tree.
Esc-Esc	return to then higher lever screen.
1 - Up	scroll a list upwards or increase the value shown on the display.
↓ -Down	scroll a list downwards or decrease the value shown on the display.
← -Enter	enter the selected submenu or confirm the set value.

4.2 Display

The following figure shows an example of the main screen, highlighting the fields and icons used:



Fig. 4.b

- 1- Date and time
- 2- Current operating mode

**	Cooling mode
*	Heating mode
<u> </u>	Individual defrost in progress
***	Separate defrost in progress

- 3- Main temperature measured by control probe
- 4- Status of the compressors in the circuits

9	Compressor off
•	Compressor on
8	Compressor forced off
•	Compressor limited
Δ	Compressor alarm
(flash)	Compressor starting, awaiting the safety times
(flash)	Compressor stopping, awaiting the safety times

5- Indicates access to the quick menu using DOWN

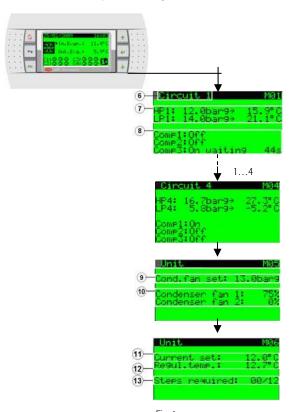


Fig. 4.c

- 6- Number of circuit
- 7- Readings of high and low pressure (with conversion to temperature)
- 8- Status of the compressors

Off	Compressor off
Start-up	Compressor starting *
On	Compressor on
Stage 2	Compressor in step 2 *
Stage 3	Compressor in step 3 *
Stage 4	Compressor in step 4 *
Forced off	Compressor forced off
Limit to stage 1	Compressor limited to step 1 *
Limit to stage 2	Compressor limited to step 2 *
Limit to stage 3	Compressor limited to step 3 *
Off by alarm	Compressor switched off by alarm
Off waiting XXXs	Compressor called on but cannot start due to safety times
	+ countdown
On waiting XXs	Compressor cannot stop due to safety times + countdown
Manual mode	Compressor in manual operation
On by pump-down	Compressor on for pump-down
¥ Tl	

- * These states are not used by Chiller Core, being typical of other types of compressor such as screw compressors.
- 9- Current condensing pressure set point
- 10- Condenser fan status
- 11- Current unit operating set point (considers scheduling by calendar and compensation)
- 12- Control temperature
- 13- Number of capacity steps required by the temperature controller in relation to the total number available on the unit

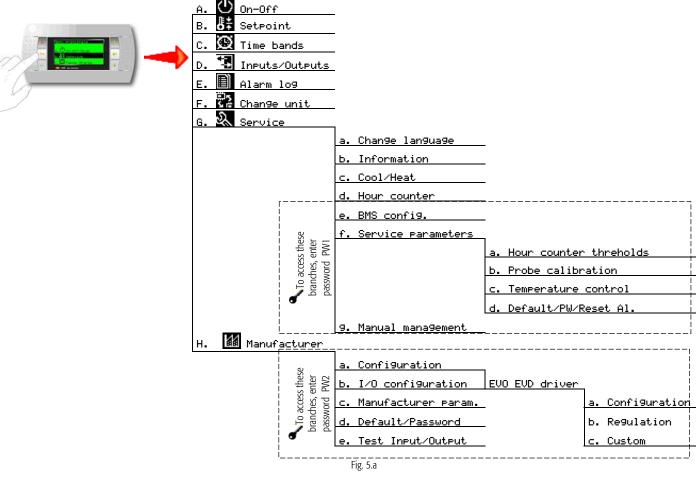
Note: The number of screens and the information on the quick menu depend on the configuration of the unit: number of circuits, number of compressors per circuit and type of condenser control.



5. DESCRIPTION OF THE MENUS

Main menu - Tree of functions

Irrespective of the current screen displayed, pressing Prg accesses the main menu, as shown below



Note: To ensure safe operation of the unit, switch the unit off when setting the parameters in:

■ H. Manufacturer → Na Mantfacture (all screens)

•H. Manufacturer → c. Manufacturer parameters (screen Hc03 only, to change the unit of measure)

If attempting to set the parameters on these screens, a warning will be shown on the last row. Example:

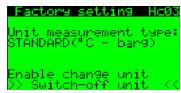


Fig 5.b

All the screens are identified by an index displayed in the field at the top right. The index is unique and is made up of the codes of the level 1, 2 and 3 menus that the screen belongs to. When there is more than one screen in the same submenu, these are identified by a progressive number.

For example, the following screen is identified by the index ${\sf Gfc01}$:



Therefore, it is the first screen (01) in the "Temperature control" (c) submenu under the "Parameters service" (f) menu, which in turn is under the "Service" (G) item on the main menu.



6. FUNCTIONS

6.1 Management of analogue inputs

Below is a flow chart detailing management of the analogue inputs:

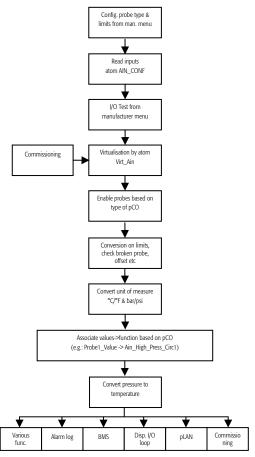


Fig 6.1.a

Probe	Туре	Limits	UOM	Offset	Alarm delay
HP	0-1V 0-10V 0-20mA 4-20mA 0-5V	-999.9 to 999.9 Default 0 to 34.5bar	barg/ psig	-9.9 to 9.9	10s
LP	0-1V 0-10V 0-20mA 4-20mA 0-5V	-999.9 to 999.9 Default 0 to 34.5bar	barg/ psig	-9.9 to 9.9	10s
Temp.	NTC	-55.0/95.0	°C/°F	-9.9 to 9.9	10s

6.2 Management of digital inputs

Below is a flow chart detailing management of the digital inputs:

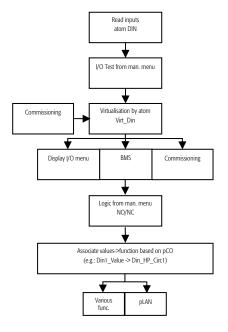


Fig 6.2.a

6.3 Management of digital outputs

Below is a flow chart detailing management of the digital outputs:

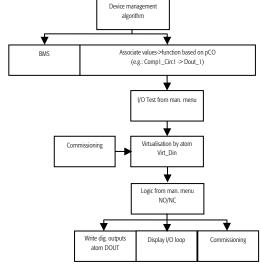
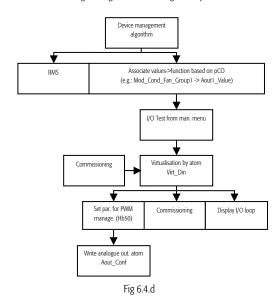


Fig. 6.3.c



6.4 Management of analogue outputs

Below is a flow chart detailing management of the digital outputs:



6.5 Test inputs and outputs

Under the Manufacturer menu → Test Inputs/Outputs, all the inputs and outputs on the pCO*, both digital and analogue, can be tested. The diagrams shown in the previous chapters, describing the management of the inputs and outputs, also include the "I/O Test from manufacturer menu" block, used to identify the effect of each of the functions.

Note: The test inputs and outputs procedure ignores all the safety features on the various devices, and consequently must be performed with special care! As a result, when enabling the function the maximum time needs to be set, after which the procedure is disabled automatically. These 2 parameters are included in the first screen under the Hexx loop:

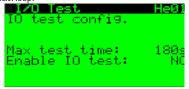


Fig. 6.5.a

Example of testing an analogue input used for a pressure probe:

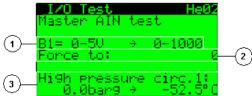


Fig. 6.5.b

- 1- Type of probe selected for pressure probes. This cannot be set, and simply describes the setting made in the I/O configuration menu.
 As an analogue input is being tested, the override is performed by setting a value from 0 to 1000, as occurs when reading the input
- 2- Override value used
- 3- Name of the probe being tested and the corresponding override pressure / temperature value. This depends on the probe limits set in the I/O configuration menu.

Example of testing a digital input:

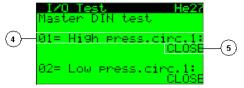


Fig. 6.5.c

- 4- Number and description of the digital input
- 5- Override

Example of testing a digital output:

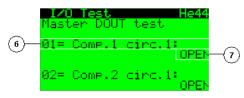


Fig. 6.5.d

- 6- Number and description of the digital input
- 7- Override

Example of testing an analogue output:

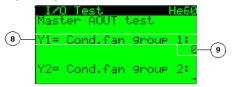


Fig. 6.5.e

- 8- Number and description of the analogue output
- 9- Override, 0-1000

6.6 Circuit and compressor management

Chiller Core comes with a new family of macroblocks and modules for managing the circuits, compressors and safety devices.

The underlying philosophy is that each of these performs only the function it was created for, based on the requirements and the feedback from other macroblocks/modules.

The system has been designed to be modular and expandable.

E.g.: The management of compressor start-up (direct, star-delta or partwinding) has been separated from the macroblocks/modules for the management of compressor operation. In this way, with a single macroblock for start-up, different types of compressor can be controlled (scroll, piston, screw) replacing or adding specific macroblocks and modules that manage the compressor safety features, such as safety times, capacity steps, etc.

The page below provides an overview of the management macroblocks/modules and the main interactions between them.



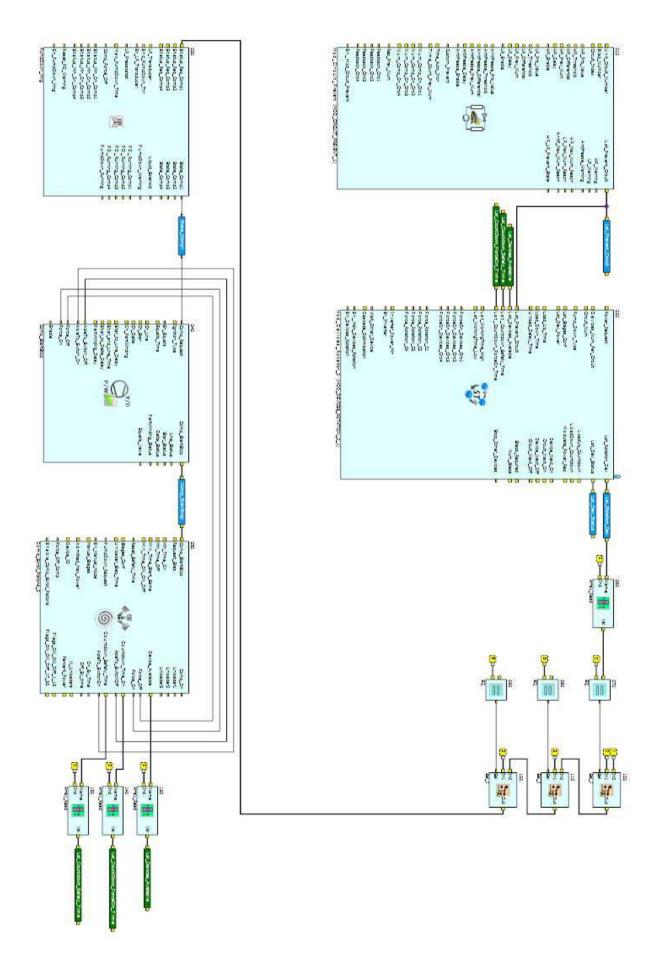


Fig 6.6.a

CAREL



Lst_Prevent_Circuit







Structure of the list

Address	0	1	2	3	4	5	6
					1 and 2	3 and 4	All
Circuits involved	1	2	3	4	(for antifreeze)	(for antifreeze)	(for antifreeze)
Values	0 to 32767	0 to 32767	0 to 32767				

If a circuit is in conditions whereby the activation of a preventing function is required, Mod_Circuit_Prevent increases the value of the variable at the address in the list corresponding to the relevant circuit. If the condition persists, Mod_Circuit_Prevent keeps increasing the value after each set interval of time. Mod_Device_Rotation_2 checks whether the capacity of the circuit can be decreased and decides which device or capacity step to deactivate based on the rotation set.

Lst_Rotation_Dev



Structure of the lis	st with mult	tiple circuits	S													
Address	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuits		1				2	!			3					4	
Comp.	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Values	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Structure of the lis	st with just 0	1 circuit 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuit									1							
Comp.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Values	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6

Mod_Device_Rotation_2 manages the rotation between the circuits and compressors and returns the request for each of the selected compressors to the output list, Lst_Rotation_Dev. This gives rise to any pump-down calls, processed by PumpDown_Management, and the compressor capacity request, used by Comp_Scroll_Pistons_2.

Below is the meaning of the possible values for each address in the list:

Lst_Rotation_Dev	Description
0	Compressor off
1	Compressor on or compressor step 1 (e.g.: Compressor on at 25%)
2	Compressor step 2 (e.g.: Compressor on at 50%)
3	Compressor step 3 (e.g.: Compressor on at 75%)
4	Compressor step 4 (e.g.: Compressor on at 100%)
5	Compressor on with pump-down
6	Compressor off with pump-down

Lst_Dev_Status







Structure of the list with multiple circuits

Address	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuits	Circuits 1 2				3				4							
Comp.	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Values	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14

Structure of the list with just 1 circuit

Address	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuit																
Comp.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Values	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14

Mod_Device_Rotation_2 manages rotation between circuits and compressors and returns the request for each of the selected compressors in the output list Lst_Rotation_Dev. Any pumpdown requests processed by PumpDown_Mng and compressor capacity requests used by Comp_Scroll_Piston_2 are taken from this list.





Below are the meanings of the values possible for each address in the list and the corresponding display on the user interface:

Lst_Dev_Status	Image on the main screen	Status in the quick menu
0. Compressor off	9	Off
Compressor starting *	9	Start-up*
2. Compressor on or in step 1		On
3. Compressor in step 2*		Stage 2*
4. Compressor in step 3*		Stage 3*
5. Compressor in step 4*		Stage 4*
6. Compressor forced off	8	Forced off
7. Compressor limited to step 1 *	0	Limit to stage 1*
8. Compressor limited to step 2 *		Limit to stage 2*
9. Compressor limited to step 3 *		Limit to stage 3*
10. Compressor alarm	Δ	Off by alarm
11. Compressor called on but cannot start due to safety times	③ (flashing)	Off waiting XXX's
12. Compressor cannot stop due to safety times	(flashing)	On waiting XX's
13. Compressor in manual operation	None, unit off	Manual mode
14. Compressor on for pump-down	9	On by pump-down

^{*} These states are not used by Chiller Core, being typical of other types of compressor, such as screw compressors.

State_CompX







PumpDown_Mng manages the pump down procedure in a circuit with a maximum 4 of compressors, when called.

PumpDown_Mng is called to activated pump-down on a specific compressor. The macroblock activates the compressor (pump-down on power-up) or keeps it running (pump-down on shutdown), while however closing the liquid solenoid valve, so as to be able to empty the evaporator.

PumpDown_Mng is transparent, that is, it forwards the start and stop requests for the compressors not involved in the pump down procedure, while keeping management of the liquid solenoid active.

Below are the meanings of the values of the output pin, State_Comp1-2-3-4:

State_CompX	Description
0	Compressor stop request
1	compressor start request

Comp_StartStop







Comp_StartStop manages the start of a generic compressor based on a start request.

Chiller Core only uses direct starting, however Comp_StartStop can manage star-delta and partwinding starting.

Comp_StartStop also manages the function for balancing the pressure before the compressor starts.

Below are the meanings of the values of the output pin, Comp_StartStop:

Comp_StartStop	Description
0	Compressor stop request
1	Compressor start request with balancing
2	Compressor starting
3	Compressor start request

Lst_Device_Available







Comp_Scroll_Piston manages scroll and reciprocating compressors: activation of capacity steps, safety times, compressor shutdown due to alarm, capacity limitation and manual operation. Based on current operation, Comp_Scroll_Piston assigns a value to the output, Device_Available:

Device_Available	Description
0	Compressor off
1	Compressor starting*
2	Compressor on or in step 1
3	Compressor in step 2*
4	Compressor in step 3*
5	Compressor in step 4*
6	Compressor forced off
7	Compressor limited to step 1*
8	Compressor limited to step 2*

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9	Compressor limited to step 3*
10	Compressor alarm
11	Compressor called on but cannot start due to safety times
12	Compressor cannot stop due to safety times
13	Compressor in manual operation
14	Compressor on for pump-down

^{*} These states are not used by Chiller Core, being typical of other types of compressor, such as screw compressors.

In Chiller Core, the value of Device_Available is used as feedback for the Mod_Device_Rotation_2 module. However, the Device_Available value for all the compressors must be sent to a list, with the following structure:

Structure of the list with multiple circuits

Addresses	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuits			1				2			3	3			4		
Comp.	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Values	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14
Structure of t	he list with 0	just 1 circu	ıit 2	3	4	5	6	7	8	9	10	11	12	13	14	15
Circuit									1							
Comp.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Values	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14	0-14

6.7 Alarm prevention

Chiller Core includes the Mod_Circuit_Prevent module, which manages the prevention of the following alarms:

- High pressure
- Low pressure
- Antifreeze

For each of these, the module requests the shutdown of the compressors in the circuit in question, and sends a warning to the alarm menu (screens included in the module). One module can work in synch with any other three modules, providing support for up to four refrigerant circuits. The stop requests are sent to a single list that can be controlled by the Mod_Device_Rotation_2 module, which handles the function for deciding which compressor to stop. In antifreeze, conditions the module may request the shutdown of the compressors in one circuit, a pair of circuits or all the circuits. This means that all the possible combinations of refrigerant-water circuits can be managed.

Note: The description of each prevention function is shown in the following chapters:

- Evaporator antifreeze
- Condenser antifreeze
- High pressure: alarm and prevention
- Low pressure: alarm and prevention

Note: For details on the format of the list, see the chapter on Circuit and compressor management, under Lst_Prevent_Circuit



For details, see the on-line documents on the Circuit_Prevent module

6.8 🐯

Circuit and compressor rotation

Chiller Core uses the Mod_Device_Rotation_2 module for rotating the circuits and compressors.

Below are some of the features of the module:

- Up to 4 circuits with a maximum of 4 compressors per circuit*; Chiller Core can manage a maximum of 4 circuits and 3 compressors per circuit.
- Up to 16 compressors in just 1 circuit*
- Up to 3 capacity steps per compressor*
- Possibility to balance the capacity between circuits
- Capacity step activation order CpppCppp or CCpppppp
- FIFO rotation
- LIFO rotation
- Rotation based on compressor operating hours
- Custom rotation
- Fixed rotation even on compressors with different capacities*
- One Compressor controlled by inverter
- Forced start-up of all the compressors in a circuit
- Forced rotation between the compressors in a circuit
- Compressor requests based on feedback on device status
- Reduction in capacity for prevention on circuit-pair of circuits or unit

- Pump-down: indicates which compressor requires pump-down when starting and/or stopping the circuit
- Double line of devices (typically used on compressor racks)*
- * Chiller Core does not exploit all of the features of the module, and manages a maximum of 4 circuits with 3 compressors without capacity steps, all with the same capacity and without controlling the inverter.



Note: For details on the format of the lists see chapter 6.5



For details, see the on-line documents on the Mod_Device_Rotation_2 module

6.9 🖺 Pump-down

Chiller Core can manage 3 types of pump-down (Ha07):

- When the circuit starts
- When the circuit stops
- When the circuit starts and stops

The Mod_Device_Rotation_2 module indicates the circuit and compressor used for the pump down procedure, while the actual procedure itself is managed by the PumpDown_Mng macroblock.

As the pump-down procedure applies to the circuit, Chiller Core features 4 PumpDown_Mng macroblocks, that is, one for each circuit.

If any type of pump-down is enabled, when requested by Mod_Device_Rotation_2, PumpDown_Mng activates the circuit with the liquid solenoid valve closed and the compressor involved in pump-down running. This status continues until a low pressure value is measured by the transducer (threshold Gfc14) or the pressure switch, or for a maximum settable time (Gfc14) with a consequent alarm signal.

Note: The Mod_Device_Rotation_2 module decides independently when pump-down is required, however needs feedback on when the procedure is completed. This information is available from Lst_Device_Available. When Mod_Device_Rotation_2 detects switching from status 14 (compressor on for pump-down) to any other status, the pump-down request is terminated

When pump-down is requested the circuit may already have the required low pressure conditions, therefore the procedure will not be performed. In this case, however, Mod_Device_Rotation_2 needs to be informed that the procedure has been completed, therefore for one program cycle pump-down is signalled as being in progress, even if the compressor is stopped immediately.



Note: For details see the description of State_CompX in chapter 6.5



For details, see the on-line documents on the PumpDown Mng macroblock



Start compressor

Chiller Core manages compressors with direct starting only.

Despite this, the software includes the Comp_StartStop macroblock, which manages the following types of starting:

- Direct
- Star/delta
- Partwinding

Comp_StartStop also manages the balancing of the suction and discharge pressure before the compressor starts, so as to reduce the load on the compressor when starting. This function is not used in Chiller Core.

Note: For star/delta or partwinding starting, Comp_StartStop directly manages the digital outputs, and in fact requires information on the digital output channels involved. Make sure then that the same outputs are not written to at the same time in other parts of the application (typically on the sheet dedicated to digital outputs).

Note: Comp_StartStop does not manage the compressor alarms directly. Therefore, it needs to know whether the compressor can start or stop. In Chiller Core, this feedback comes directly from the Comp_Scroll_Piston macroblock.



For details, see the on-line documents on the Comp_StartStop macroblock

6.11 © Compressor management

Chiller Core manages scroll compressors. The actual activation of the compressors is managed by the Comp_Scroll_Pistons_2 macroblock, which in response to a request, manages the activation and deactivation of a scroll compressor, as well as the capacity steps, if configured.

Even if this function is included, Chiller Core does not manage compressors with capacity steps. The developer needs to modify the software to support these types of

Comp_Scroll_Pistons_2 manages all the typical safety times of a scroll or piston compressor, such as:

- Minimum on time;
- Minimum off time;
- Minimum time between consecutive starts.

These can be set in the manufacturer menu on screen Hc06.

Comp_Scroll_Pistons_2 does not manage the logic of the compressor alarms, but rather provides an input pin that receives all the alarms that shutdown the compressor. In the event of faults, Comp_Scroll_Pistons_2 immediately stops the compressor, even if the minimum on time has not yet elapsed.

There are some in which the compressor must be forced off or operated at a specific capacity level. Comp_Scroll_Pistons_2 has an input pin called Admitted_Max_Power that is limits compressor capacity.

In Chiller Core, as the compressor is either on or off, there are no capacity limits, but rather the compressor is forced off in the following cases:

- Compressor disabled manually (Gg02, Gg03, Gg04, Gg05)
- Transients for reversing the cycle in normal operation
- Transients for reversing the cycle when starting and ending the defrost procedure

Comp_Scroll_Pistons_2 can be used to manage the compressor manually (Gg06, Gg07, Gg08, Gg09). During manual operation, the compressor alarms are monitored. The safety times, described previously, are ignored.

For details, see the on-line documents on the Comp_Scroll_Pistons_2 macroblock

6.12 EVD EVO driver

Chiller Core also integrates communication (via pLAN, Carel, ModBus) with up to two EVD Evo drivers in twin mode (two valves).

The communication with EVD Evo driver is handled using a module

(Mod_EVDEVO_Com, common for all drivers) that manages the common parameters and their corresponding screens, and two modules (Mod EVDEVO), one for circuit 1 and 2, the other for circuit 3 and 4, which ensure data communication between pCO3 / pCO5 and the driver.



Fig. 6.12.a

The screens are visible if the "EVD_ComMsk" pin (Mod_EVDEVO_Com input pin) is set correctly, and can have the following values and meanings:

0 = no parameters shared by the driver.

1 = parameters shared by different drivers.

2 = parameters shared by different drivers and valves.

The latter is the operating mode used by Chiller Core, which assumes the circuits to be

For further details, see the online documents relating to the Mod_EVDEVO_Com

Some EVD parameters can have different setting, depending on unit operating mode (chiller, heat pump or defrost), so as to allow control to adapt to the three operating

"EVD Parameter Mng" is used to make the corresponding settings (see the figure).

It is necessary to have different set of parameters between Chiller / Heat pump / defrost working mode. Follow the parameters: Start EEV opening ratio

Set SH

Set SH
PID (Prop.gain, Integral time, Derivat.time)
LOP threshold
LOP Integral time
MOP threshold
MOP Integral time
Low SH threshold

Param_Out

Fig. 6.12.c

Sel IX OH HP DE

The image below shows the first of the two Mod_EVDEVO modules, which manages circuits 1 and 2. The Circ_power_Calc macroblock calculates the circuit cooling capacity, and the EVD EVO driver starts/stops control and performs repositioning accordingly, so as to respond to sudden changes in circuit capacity.

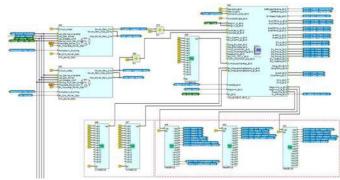


Fig. 6.12.e

Further details and the complete documents on EVD EVO are available in the manual +0300006IT.pdf (on the Carel website). Also see online documents relating to the Mod EVDEVO module.



6.13 Compressor start delay management

A specific function in Chiller Core manages the delay needed between opening of EEV valve and compressor switching on. This delay is necessary to permit the EEV valve opening reaches the set value before compressor starts, in this way allowing a fastly achieving of the nominal working condition (see Strategy sheet:"Compr_On_Delay_Calc").

The delay time is calculated taking in account all the parameters involved on it (as shown on the picture below), so that the resulting delay time value is the exactly one.

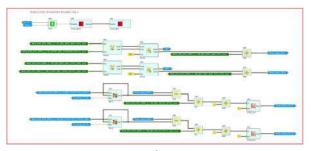


Fig. 6.13.a

The delay is applied by means of Pulse atoms (on the middle of the figure shown below) that break the transmission of On command of the compressor (see atoms Sel_B on the right) coming from sheet Compressor_Mng (macroblocks Comp_Scroll_Pistons_2) and going directly to output relays.

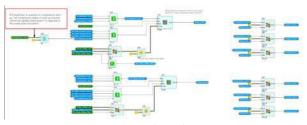


Fig. 6.13.b

The function can be enabled/disabled using the Boolean variable "En_Cmp_Delay_Mng" on screen Haa25: disabled by default. If disabled, screen Haa26 is shown in order to set a fixed time value.



Fig. 6.13.c



Fig. 6.13.d

The function is automatically disabled when there is a requirement to perform the pump-down at compressor starting: this is because the two function works in the opposite direction, but pump-down is a priority function.

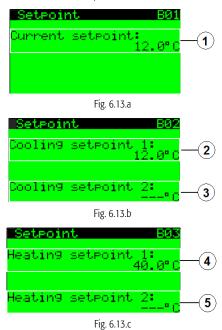
6.14 Control set point

Chiller Core manages units that can operate in both cooling and heating mode. Each mode uses its own control water temperature set point, settable in the set point menu. The screen for setting the set point will displayed depending on the unit configuration, chiller, heat pump or chiller-heat pump.

If even just one time band is enabled, then 2 separate set points can be set for each operating mode. The time bands define which of the set points will be used for temperature control.

In the Temperature control menu, the minimum and maximum limits can be set for the cooling (Gfc11) and heating (Gfc12) set point. These are obviously affected by the setting of the unit of measure °C/°F.

Below are the screens available the set point menu:



- 1- Current set point used for temperature control. This considers the time band in progress and set point compensation. The same parameter is also displayed in the quick menu, on screen M06 (see chapter 4.1, Graphic terminal)
- 2- Cooling set point 1, settable by the user;
- 3- Cooling set point 2, settable by the user. Can only be set if at least 1 time band is enabled
- 4- Heating set point 1, settable by the user;
- 5- Heating set point 2, settable by the user. Can only be set if at least 1 time band is enabled



6.15 Est point compensation

Chiller Core manages the compensation of the control set point using the Setpoint_Compensation macroblock. Compensation can be enabled (Ha13) only if the outside temperature sensor (Hb07) used for the compensation function is enabled. The logical sequence of operations is as follows:

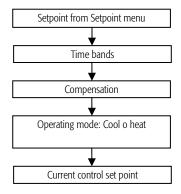
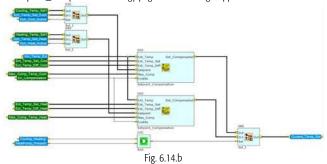


Fig. 6.14.a

The Setpoint_Compensation strategy page shows the logic applied:



The compensation configuration parameters are found in the Temperature control menu: Gfc15 for cooling, Gfc16 for heating.

For the operating logic of the compensation function and the corresponding macroblocks, see the on-line documents on Setpoint_Compensation

6.16 Unit On-Off

The unit can be switched On-Off from the On-Off menu.

The function is found on the OnOff_CoolHeat_Scheduler page and managed by the Mod_OnOff_Unit_Status module.

The logical sequence of operations is as follows:

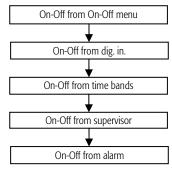
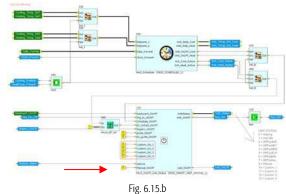


Fig. 6.15.a

Consequently alarms have the highest priority.

If the user needs to create additional unit states, the Mod_OnOff_Unit_Status module provides 3 pins, Custom_On_1/2/3, which have no effect on the actual on-off status but rather only on the unit operating status typically shown on the user interface.



rig. 0.13.0

The unit off status is shown on the main screen on the last 2 rows of the PGD1. Below are 2 examples:

If the unit is Off and there is no active shutdown alarm, the first screen will be:



Fig. 6.15.c

If the unit is On yet forced off by a shutdown alarm, then the screen will be:

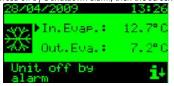


Fig. 6.15.d



For details, see the on-line documents on the Mod_OnOff_Unit_Status macroblock



Two types of temperature control are featured:

Control probe	Type of control
Water inlet temperature	Proportional (P, PI, PID)
Water outlet temperature	Dead zone

Both types of control return a value between 0 and 1000, corresponding to the temperature control request to be satisfied in order to reach the control set point. This value is sent to the Mod_Device_Rotation_2 module, which sorts the requests and calls the activation or deactivation of the compressors in the various circuits configured.

6.17.1 Proportional

Control is managed by the Mod_Temp_Reg module.

The module processes the value of the water inlet temperature (see the table in chapter 1.3.6) and, based on the type of control selected (Gfc03 and Gfc04) proportional, proportional-integral or proportional-integral-differential (P, PI ,PID), returns one value from 0 to 1000 for heating and another for cooling, corresponding to the temperature control request to be satisfied in order to reach the control set point.

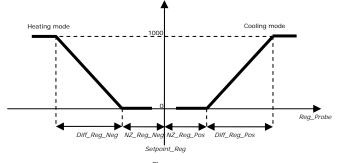


Fig. 6.16.a An input pin is used to select the operating mode between:



- 1- Heating
- 2- Cooling
- 3- Automatic

In Chiller Core, automatic mode is not used.

With this type of control, when the water inlet temperature reaches the set point, all the compressors are off (in accordance with the safety times and the integral and derivative action). All the compressors will be on when reaching set point + dead zone + differential (in accordance with the alarms and safety times).



For details, see the on-line documents on the Mod_Temp_reg module

6.17.2 Dead zone

Control is performed by the Mod_Neutral_Zone_Temp module.

The module processes the value of the water outlet temperature (see table in chapter 1.3.6) and returns a value from 0 to 1000 corresponding to the temperature control request to be satisfied in order to reach the control set point.

The following figure describes the function that returns the capacity required in cooling mode:

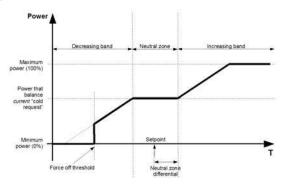


Fig. 6.16.b

And in heating mode:

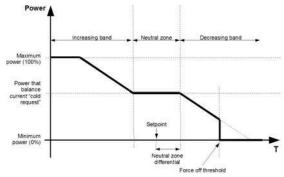


Fig. 6.16.c

The rate of increase/decrease (that is, the slope of the line) within the bands depends on a further parameter calculated by Mod_Neutral_Zone_Temp, which is the time taken to reach the maximum (100%, if increasing) or minimum (0%, if decreasing) capacity required. The following figure shows the function that calculates this time in cooling mode:

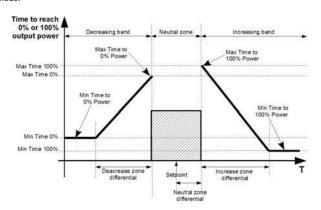


Fig. 6.16.d

And in heating mode:

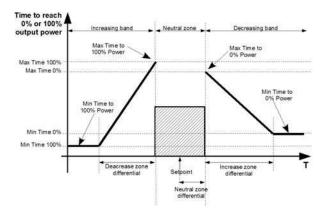


Fig. 6.16.e

In cooling mode, with dead zone control, the compressors are called to start when the water outlet temperature is higher than the dead zone set point + differential (capacity increase zone). The start request increases faster the higher the temperature, as can be seen in the diagrams above.

When the temperature is between the dead zone (neutral zone) set point +/differential, the request remains unchanged and thus the number of compressors
operating remains unvaried.

When the temperature is lower than the dead zone set point - differential (capacity decrease zone), the request descends and consequently the compressors are gradually stopped. The request decreases faster the lower the temperature, as can be seen in the diagrams above.

In heating mode, the control diagram is exactly the opposite.

For details, see the on-line documents on the Mod_Neutral_Zone_Temp

6.18 **Evaporator pumps**

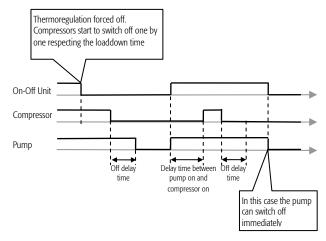
Chiller Core manages up to two evaporator pumps using the Mod_Pumps module. These are used in both air/water and water/water units (Ha01), the only thing that changes is the start/stop request.

The evaporator pump starts when the unit starts. The exception is for water/water units with reversible water circuit when the unit is operating in heat pump mode, and the pump is on the condenser side. In this case, the settings for the condenser pump on screen Gfc20 are used:

- Always on with unit on
- On if at least one compressor is on.

A delay can be set (Gfc17) from when the pump starts before enabling temperature control.

In addition, a time can be set (Gfc17) that the pump operates for after the last compressor stops (see the note at the end of the paragraph). If when the unit is shutdown the compressors have all been off for at least the pump off delay time, then the pump stops immediately.



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Below is a diagram that represents operation with just one pump configured:

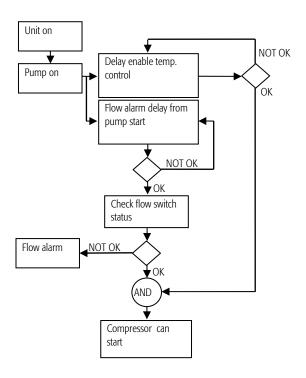


Fig. 6.17.a

It should be noted that temperature control is not enabled until stable flow conditions are measured after the flow alarm delay at pump start. This guarantees that no compressors start until there is flow.

Up to two evaporator pumps can be enabled (Ha08). Mod_Pumps includes the following functions:

- With two pumps, manual or automatic changeover between the pumps to equally divide the workload and operating hours on each pump. Automatic changeover occurs:
 - 1) When a certain time period elapses (Gfc19).
 - 2) With pump overload or no flow on one of the two pumps.
- Management of pump overload. Fault signal and immediate shutdown of the pump. Management of changeover when a second pump is installed
- Management of the flow switch that monitors the circulation of fluid in the system.
 Management of changeover when a second pump is installed.
- Attempts to recover flow: the maximum number of attempts can be set (Ha08) to recover water flow.
- Management of anti-blocking, with occasional activation of the pump when the system is off for long periods (Ha09)
- Management of antifreeze with activation of the pump to circulate the fluid

If a number of attempts is set to recover flow, and only one pump is configured, when no flow is measured the pump is stopped and the warning signal is activated. The pump will automatically start again after 90 seconds (constant, connected to pin in the module), and if flow is measured after the delay from start-up the warning is automatically cancelled and the pump continues operating, otherwise the number of warnings is increased on the screen and the procedure starts again, until reaching the maximum number of attempts, when the alarm is signalled.

If on the other hand 2 pumps are configured, the pumps are activated alternately until the maximum number of attempts is reached for each pump.

Note: Irrespective of the shutdown delay set, if there at least one compressor is running, the pump is always on. Only after the last compressor stops can the pump can be shut down, after the shutdown delay.

For details, see the on-line documents on the Mod_Pumps module.

6.19 **P** Condenser pumps

Chiller Core manages up to two condenser pumps using the Mod_Pumps module, in the same way as for the evaporator pumps.

These are only used on water/water units (Ha01).

Irrespective of the type of condenser (individual or separate), there is always just one group of condenser pumps, which may feature one or two pumps.

The pumps can be set (Gfc20) to start:

- Always with unit on
- If at least one compressor is on.

The exception is for units with reversible water circuit when the unit is operating in heat pump mode, and the pump is on the evaporator side and therefore must always be operating when the unit is on.

A delay can be set to shut down the pump after the last compressor stops.

Chiller Core does not manage the for the condenser pump overload.

Mod_Pumps features the following functions:

- With two pumps, manual or automatic changeover between the pumps to equally divide the workload and operating hours on each pump. Automatic changeover occurs:
 - 1) When a certain time period elapses ((Gfc22).
- 2) With no flow on one of the two pumps.
- Management of the flow switch that monitors the circulation of fluid in the system.
 Management of changeover when a second pump is installed.
- Attempts to recover flow: the maximum number of attempts can be set (Ha10) to recover water flow.
- Management of anti-blocking, with occasional activation of the pump when the system is off for long periods (Ha11)
- Management of the condenser antifreeze with activation of the pump to circulate the fluid

If a number of attempts is set to recover flow, and only one pump is configured, when no flow is measured the pump is stopped and the warning signal is activated. The pump will automatically start again after 90 seconds (constant, connected to pin in the module), and if flow is measured after the delay from start-up the warning is automatically cancelled and the pump continues operating, otherwise the number of warnings is increased on the screen and the procedure starts again, until reaching the maximum number of attempts, when the alarm is signalled.

If on the other hand 2 pumps are configured, the pumps are activated alternately until the maximum number of attempts is reached for each pump.



For details, see the on-line documents on the Mod_Pumps module.

.20 ៓ Condenser fans

Condenser control can be set as single or separate in the manufacturer menu (Ha04). Below is a table that summarises the probes used to control the fans in each unit configuration:

Circuits	Type of	Fan control probes						
	cond.	Chiller	Heat pump					
1	Single	HP circ. 1	LP circ. 1					
2	Single	The higher HP between circ. 1 and circ. 2	The lower LP between circ. 1 and circ. 2					
2	Separate	Fan 1: HP circ. 1 Fan 2: HP circ. 2	Fan 1: LP circ. 1 Fan 2: LP circ. 2					
3	Single	The higher HP between circ. 1, circ. 2, circ. 3	The lower LP between circ. 1, circ. 2, circ. 3					
4	Single	The higher HP between circ. 1, circ. 2, circ. 3, circ. 4	The lower LP between circ. 1, circ. 2, circ. 3, circ. 4					
4	Separate	circ. 1 and circ. 2	Fan 1: The lower LP between circ. 1 and circ. 2 Fan 2: The lower LP between circ. 3 and circ. 4					



Example:

2 circuits and single condenser control

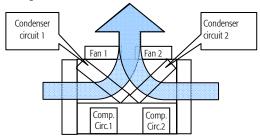


Fig. 6.19.a

2 circuits and separate condenser control

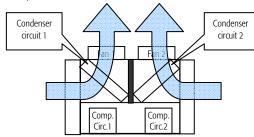


Fig. 6.19.b

The groups of fan are controlled using 2 Condenser_Fan macroblocks. The first of the two is used two in the case of single condenser control, and both in the case of separate control

Irrespective of the unit configuration and the type of condenser control, fan management is always performed by the master board.

6.20.1 Fan management

As mentioned, the groups of fan are controlled using 2 Condenser_Fan macroblocks. The minimum and maximum speed of the fan groups can be set on screen Gfc26.

Control depends on whether the unit is operating in cooling or heating mode.

Cooling mode:

Control is modulating and is performed on the high pressure value. In the service menu (Gfc23), the control set point and differential can be set in barg, associated with the corresponding temperature value:



Fig. 6.19.c

The control diagram is shown below:

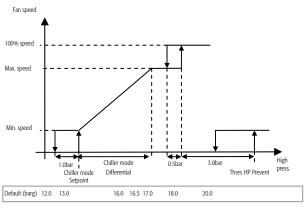


Fig. 6.19.d

In the graph some of the offsets are expressed with a numeric value, indicating that they cannot be modified on the display, but rather set with constants in the strategy.

The graph shows the fan activated at 100% with a fixed offset of 3.0barg in relation to the high pressure prevention threshold. If the high pressure prevention function is disabled, then the offset refers to the high pressure alarm threshold (Gfc33 default 23.0barg).

Heating mode:

Control is modulating and is performed on the low pressure value. In the service menu (Gfc24), the control set point and differential can be set in barg, associated with the corresponding temperature value:



Fig. 6.19.e

The control diagram is shown below:

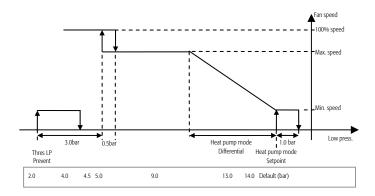


Fig. 6.19.f

In the graph some of the offsets are expressed with a numeric value, indicating that they cannot be modified on the display, but rather set with constants in the strategy. The graph shows the fan activated at 100% with a fixed offset of 3.0barg in relation to the low pressure prevention threshold. If the prevention of low pressure was disabled, then the offset refers to the low pressure alarm threshold (Gfc30 default 1.5barg).

6.20.2 Speed-up and force fans on when circuit starts

Whenever the group of fans is started, the fans are activated with the maximum output set for a certain time, so as to overcome the initial inertia and decrease the peak time. The macroblock provides a pin for setting the speed-up time, in Chiller Core this is done in the service menu, screen Gfc25 (point 1 Fig. 6.19.g). If equal to zero, speed-up is not performed.

In addition, the fans can be activated at the maximum output set when the first compressor in the circuit starts yet with control pressure would not be sufficient alone to justify the fan being activated. The time can be set in the service menu on screen Gfc25 (point 2 Fig. 6.19.g). If equal to zero, the function is disabled.

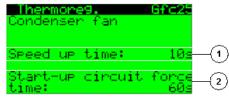


Fig. 6.19.g



For details, see the on-line documents on the Condenser_Fan macroblock



6.21 Defrost

During heat pump operation on air/water units, the outside coil works as an evaporator. If the outside temperature is low, ice may form the coil same, consequently reducing the efficiency of the unit. In this case, the defrost function should be activated.

Activation of the defrost depends on the value read by the reference probe (pressure transducer, low pressure side) and a delay set (Gfc28) from when the activation threshold (Gfc27) is exceeded, as shown in the following figure:

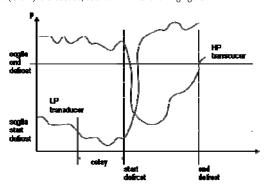


Fig. 6.20.a



Fig. 6.20.b

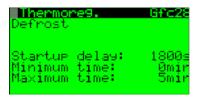


Fig. 6.20.c

The defrost ends when the reference probe (pressure transducer, high pressure side) value exceeds the end defrost threshold (Gfc27); in any case, the defrost must last a minimum time.

If the high pressure value exceeds the end defrost threshold before the minimum time has elapsed, then the condenser fans are enabled and start operating in chiller mode so as to prevent the unit from shutting down due to high pressure.

In the event of simultaneous defrosts on different circuits, one circuit may reach the end defrost threshold before the other circuits, in which case the compressors in that circuit are stopped and the 4-way valves are maintained in the chiller position, until all the circuits reach the end defrost threshold. When the last circuit has reached the end defrost threshold, then the dripping procedure starts, with the active compressors remaining on (those that are off remain off) and the condenser fans operating at 100%.

Alternatively, a fixed defrost duration can be set; in this case, just one reference probe is required, to determine the activation of the function:

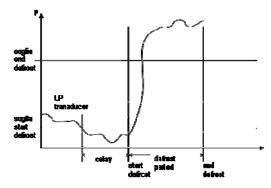


Fig. 6.20.d

The defrost function involves the reversing of the circuit operating cycle.

During defrost, the condenser fans are forced OFF to assist defrosting, except for the case described previously.

The "dripping" function can also be set, which involves operating the fans at 100% for a certain time (Gfc29) after the end of the defrost. If the dripping time is zero, then this phase is not performed.

A time can be set (Gfc29) to reverse the cycle at the start and end of the defrost procedure. If the time is set to zero, then the cycle is reversed "on the go", with the compressors on. If the time is greater than zero, then the compressors are switched off for the set time and the cycle is reversed half way through the time.

A minimum time can be set (Gfc29) between the end of one defrost and the start of the

The following figure shows how the various components in circuit and the defrost phases are managed:

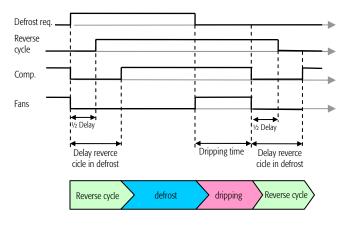


Fig. 6.20.e



Fig. 6.20.f

If there are multiple condensing circuits, the following defrost modes are managed (Ha12):

- Individual defrost: if one circuit requires defrosting, the entire unit goes into defrost
 mode. The circuits that do not require defrosting reverse the cycle yet the
 compressors remain off.
- Separate defrost: the first circuit that requires defrosting goes into defrost mode. The
 other circuits remain in heat pump mode and cannot call a defrost until the defrost in
 progress ends.

Note: during defrost, the compressor safety times are ignored. Likewise, the pump-down function settings are also ignored.

6.22 Clock and time bands

pCO3 / pCO5 is fitted with an internal clock with backup battery that stores the time and date for all the associated functions.

The date and the time are displayed on the main screen; they are used to manage time bandsand to recorde event time in the alarm log.

If the clock, inside the pCO3 / pCO5, malfunctions, an alarm is generated:

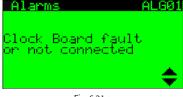


Fig. 6.21.a

Chiller Core does not use the clock memory, P memory, but rather an alarm is activated if there are problems reading/writing the parameters:





Fig. 6.21.b

The time, date, time bands, closing periods and holidays are set from the main

C. Time bands menu. The following screens are displayed in sequence:

- Time and date setting
- Four daily time bands
- Special periods, up to a max. of three
- Holidays/special dates, up to a max. of six

The time bands and calendar are programmed using the Mod_Scheduler module (see corresponding documents). The following figure details the function:

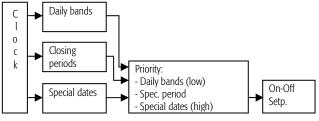


Fig. 6.21.c

For each daily time band, special period, special date, the set point or unit off time can be set:

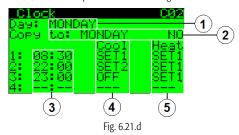
Cooling	Heating
Off	Off
Cooling set 1	Heating set 1
Cooling set 2	Heating set 2

Off: The unit is switched off

Set 1: the unit is on and the temperature control uses set point 1

Set 2: th the unit is on and the temperature control uses set point 2. Set point 1 and Set

point 2 are set in the B. Setpoint menu. The setting screens are:



- 1 Day. If "---" then the daily time bands are disabled
- 2 The settings for the current day can be copied to another day
- 3 Time band start time. The band ends when the following band starts. Example:

Band 1 starts at 8:30 and ends at 22:00

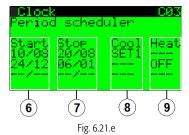
Band 2 starts at 22:00 and ends at 23:00

Band 3 starts at 23:00 and ends at 8:30

The software activates the bands in increasing order.

If "---"the band is disabled

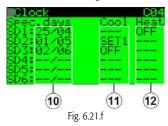
- 4 Settings used when the unit is in cooling mode
- 5 Settings used when the unit is in heating mode



6 Special period start date

7 Special period end date

- Settings used when the unit is in cooling mode
- 9 Settings used when the unit is in heating mode



- 10- Special day
- 11- Settings used when the unit is in cooling mode
- 12- Settings used when the unit is in heating mode

Priority:

The daily time bands have the lowest priority, while the special periods have medium priority and the special days have highest priority. Example:

- Heating mode
- Daily time band: from 8:30 to 22:00 → SET1
- Special period: from 24/12 to 06/01 → OFF
- Special day: 02/01 → SET1

In this case, from 24/12 to 06/01 the time bands will be ignored and the unit will be off due to the special period setting, except for on the special day 02/01 when the unit will switch on and use set point 1



For details, see the on-line documents on the Mod Scheduler module.

6.23 Date format setting

Three different types of date format can be set (Hc02):

- I- Day/Month/year: dd/mm/yy
- 2- Month/Day/year: mm/dd/yy
- 3- Year/Month/Day: yy/mm/dd

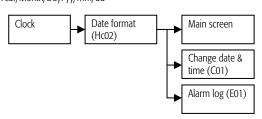


Fig. 6.22.a

6.24 Cooling/heating

Chiller Core manages chiller and chiller-heat pump units.

The diagram below provides an overview of the types of operation managed:

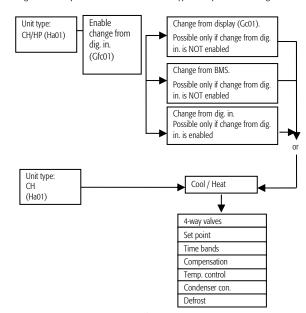


Fig. 6.23.a

CAREL

Below is the procedure applied when changing mode:

- 1- Request change mode
- 2- All compressors immediately shutdown. The unit remains on.
- 3- Wait "Cool/heat change delay" (Gfc01)
- 4- Reverse 4-way valve
- 5- Change set point, temperature control, bands etc.
- 6- Wait "Cool/heat change delay" (Gfc01)
- 7- Compressors re-enabled

6.25 Modifying the Carel defaults

The default values are assigned to the variables using a function available on the HW_SW_Check and Default page.

When the default procedure is activated, the pCO* buffer memory is completely cancelled and then the default value are assigned to the parameters.

At the end of the default installation procedure, the "Initialisation completed Switch unit off to confirm data" screen is displayed. The user can only switch the pCO* off and on again to ensure the variables are loaded into X memory.

6.25.1 How to add a default

To manage the default parameters, the following functions are used:

- Move_IT_En_10: for integer or analogue variables;
- Move_BT_En_10: for digital variables.

To assign the default values, the variables need to be connected to the pins on the Move_IT_En_10 or Move_BT_En_10 macroblock. If necessary, add other macroblocks, making sure they are inside the "VK_Default" Jump.

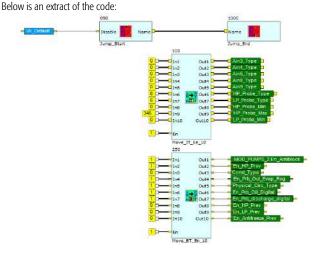


Fig. 6.24.a

For analogue parameters that are dependent on unit of measure, two defaults need to be entered. For further details, see the chapter on "Changing the unit of measure".

6.25.2 How to change the default values

To modify the default values, simply change the value of the constant connected to Move_IT_En_10 and Move_BT_En_10. For analogue parameters with two units of measure, both default values need to be changed.

6.25.3 How to install the default values

There are three different ways to install the Carel default values on the pCO*:

- From the manufacturer menu: in screen He02 the user can set the default values and cancel the memory;
- 2. When first installing the application on the pCO*;
- 3. When updating the version of the application;

6.26 Changing the unit of measure

The temperature and pressure units of measure can be changed: Temperature: ${}^{\circ}C \longleftrightarrow {}^{\circ}F$. Pressure: barg \longleftrightarrow psig

When changing unit of measure, the temperature and pressure settings are restored to the default values. This means that there are two default values for all the temperature and pressure parameters.



As regards the default values of the variables relating to the EVD driver, the two sets of values are not needed, as the driver itself can convert the unit of measure internally and then send the pCO the converted values. It must be remembered that this mechanism works correctly when the driver is online, otherwise if the driver is offline, the unit of measure must be changed for these variables by the application.

The parameters not affected by the change in unit of measure, such as the number of circuits, number of compressors etc. keep their value.

The unit of measure can be changed in the manufacturer menu \rightarrow Manufacturer parameters, screen Hc03.

When the unit of measure is being changed, a screen is displayed to warn the user that all the customised temperature and pressure settings will be overwritten:

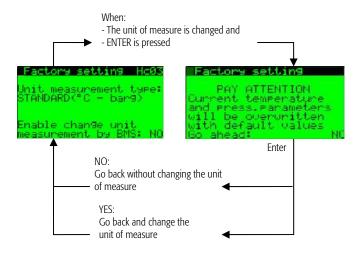


Fig. 6.25.a

The unit of measure can only be changed when the unit is off. If the unit is on, when pressing ENTER on the screen, the last row shows the message ">>Switch-off unit<<".

At the end of the conversion of the unit of measure, the "Initialisation completed Switch unit off to confirm data" screen is displayed, in the same way as for the installation of the default values. The user can then only switch the pCO* off and on again.

The unit of measure can be changed from the supervisor. As the operation requires special care, given that it returns the pressure and temperature parameters to the default values, it must be accessed from the manufacturer menu (Hc03).

Therefore, the parameter for setting the unit of measure from the supervisor changes from read-only (R) to read/write (RW) as follows:

Change_UM_by_BMS: $0 \rightarrow \text{read-only}$; Change_UM_by_BMS: $1 \rightarrow \text{read/write}$.

6.26.1 How to add new variables affected by the change in the unit of measure

Probe readings from analogue inputs:

To convert the temperatures, the CEL_FAHR macroblock is used, where "Unit_Meas_Type" pin is connected to the "Unit_Meas_Type" variable (see Figure).

To convert the pressure, simply change the minimum and maximum probe limits, managed as input pins on the Ain_Mng macroblock. The limits are converted using the defaults, as explained above.

Nonetheless, for uniformity with the other analogue inputs, the BAR_PSI macroblock is provided, where the "Unit_Meas_Type" pin is connected to the constant 0, thus making it transparent.



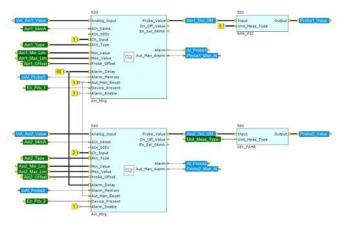


Fig. 6.25.b

Parameters:

For each parameter added, the two defaults on the "Unit_Measurement_Mng" strategy page need to be managed, one for the international units of measure and the other for Imperial

The new parameters and the corresponding defaults are appended to the current ones. When necessary, add other Move_IT_En_10 macroblocks, making sure they are inside the corresponding Jump.

Below is an extract of the code:

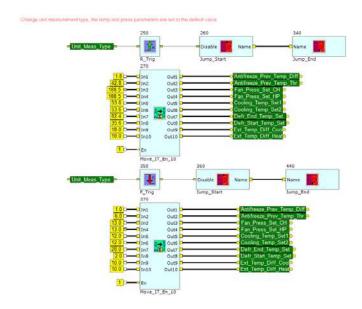


Fig. 6.25.c

6.27 Modifying the user defaults

The user can customise the unit configuration, safe the configuration (He03) and then use it again when required (Gfd03).

For each configuration saved, the date is recorded as a reference.

The defaults can only be restored when they have previously been saved, otherwise the restore screen is disabled (Cfd03).

After restoring the user defaults, is displayed the "Initialisation completed Switch unit off to confirm data" screen is displayed, in the same way as for the installation of the default values. The user can then only switch the pCO* off and on again.

6.27.1 How to add new variables to the user defaults

The following modules/macroblocks are used to manage the user defaults:

Mod_M_Store_Dev: Module only used once.

This manages the request to save and restore the default values. The module features the screens used to save the defaults (manufacturer menu

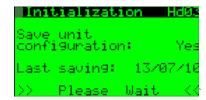


Fig. 6.26.a

and then restore them (service menu 2)

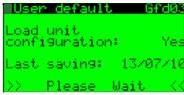


Fig. 6.26.b

- Mod_S_Store_Dev_W: saves the values of the integer and analogue variables.
- Mod_S_Store_Dev_B: saves the values of the digital variables.

CAREL



To add new variables, these must be connected to the pins in the Mod_S_Store_Dev_W or Mod_S_Store_Dev_B module. Add other macroblocks is necessary. The "Store" and "Restore" pins are automatically connected to the Mod_M_Store_Dev module. Below is an extract of the code:

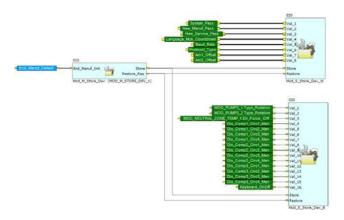


Fig. 6.26.c

6.28 Manual device management

The devices can be controlled manually by the user, from the Service menu \rightarrow Manual management.

Below are the features of manual device operation:

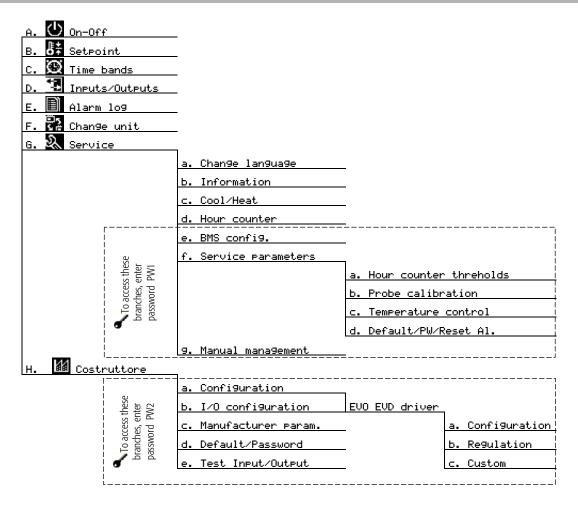
Device	Remarks
Compressor X Circuit X	Safety times bypassed; all compressor alarms are observed
Liquid solenoid circuit X	-
Evaporator pump 1 - 2	The flow alarm is disabled; Pump thermal overload alarm active.
Condenser pump 1 - 2	The flow alarm is disabled; Pump thermal overload alarm active.
4-way valve circuit X	-
Condenser fans 1 – 2	Speed-up is disabled
Antifreeze heater	-

Manual mode can only be activated when the unit is off. If the unit is on, when pressing ENTER on the screen, the last row shows the message ">>Turn unit off<<".

If the unit is switched on during manual mode, all the devices return to normal operation



7. TABLE OF PARAMETERS



"Mask index": indicates the unique address of each screen, and consequently the settable parameters available on the screen; for example, with reference to the tree of functions shown above, to reach the parameter with screen index (Mask index) GfcØ5, proceed as follows:

Main menu \rightarrow G. Service \rightarrow f. Service parameters (after having entered the corresponding password PW1) \rightarrow c. Temperature control and scroll the screens to number 5 (05).

Below is the table of parameters that can be displayed on the terminal.





		Description	Default	UOM	Min	Max	Possible value descr.	Туре	Read/ Write	BI
	n-Off Unit Unit address:	Address of the controller in a pLAN network	h		0	31	<u> </u>			1 -
	Actual state:	Unit status	0 0		0	0	0:	1		+
riction state.	Actual state.	Offic Status	U		U	9	1: Unit On	- '		
						2: OFFbyALR				
						3: OFFbyNET				
							4: OFFbyBMS			
							5: OFFbySCH	_		
							6: OFFbyDIN			
							7: OFFbyKEY			
							8:			
							9: OFF_CST1			
							10: OFF_CST2			
							11: OFF_CST3			
							12: OFF_CST4			
	Change to:	Temporary variable for manage the OnOff unit status	0		0	1	0: SWITCH OFF			1
							1: SWITCH ON			
	Setpoint									
	Current setpoint:	Current setpoint		°C/°F	-999,9	999,9		Α	R	
	Cooling setpoint 1:	Cooling temperature setpoint1	12	°C	Gfc11	Gfc11		A	R/W	
			53	°F	Gfc11	Gfc11			.,	
	Cooling setpoint 2:	Cooling temperature setpoint2	12	°C	Gfc11	Gfc11		А	R/W	
	Cooling Scipolit 2.	Cooling temperature serpoints	53	°F	Gfc11	Gfc11			19 **	
	Heating setpoint 1:	Heating temperature setpoint1	40	°C	Gfc12	Gfc12			R/W	
	neating setpoint 1.	neating temperature setpoint						Α	ry vv	
	Losting acts aint 2	Hadina kamanagi	104	°F	Gfc12	Gfc12		-	DAM	+
	Heating setpoint 2:	Heating temperature setpoint2	40	°C	Gfc12	Gfc12	-	А	R/W	
	l		104	°F	Gfc12	Gfc12	<u> </u>			
C1	lock/Scheduler									
	Day:	Week day calculation based on current date	0	_	0	7	0: ***	1		T
	l '	and the same and t	Γ			1	1: Monday	┨ .	Ì	1
							2: Tuesday			
			1			1	3: Wednesday	\dashv	Ì	1
								_		
							4: Thursday			
							5: Friday			
							6: Saturday			
							7: Sunday			
		Date format	1	-	0	2	0:	- 1	14	1
							1: dd/mm/yy			
							2: mm/dd/yy			
							3: yy.mm.dd			
	Date:	New day		day	1	31		1	i	
	Dutc.	New month		month	1	12		- i	ł	
		New year		year	0	99		<u> </u>	ł	
	Hour:	New hour		yeai h	0	23		+	ł	
	Hour.	New mout		m	0	59	-	1	ł	
	Day:	Scheduler settings	0		0	7	0: MONDAY	+ ;		╁
	Day.	Scheduler Settings	ľ		Ŭ	,	1: TUESDAY	- '		
							2: WEDNESDAY			
							3: THURSDAY			
							4: FRIDAY			
							4: FRIDAY			
							4: FRIDAY 5: SATURDAY			
	Copy to:	Day target for the scheduler copy	0		0	7	4: FRIDAY 5: SATURDAY 6: SUNDAY 7:			
	Copy to:	Day target for the scheduler copy	0		0	7	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY			
	Copy to:	Day target for the scheduler copy	0		0	7	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY			
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	Copy to:	Day target for the scheduler copy	0		0	7	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY			
	Copy to:	Day target for the scheduler copy	b		0	7	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY			
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	Copy to:	Start copy procedure F1 Start hour F1 Start minute	0 0 0				4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59	1		
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	Copy to:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type	0 0 0 0		0 0 0 0		4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 5: SET2 0: 1: OFF	1		
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	Copy to:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type F1 Set Heat Type	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	59 3 3	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 5: SATURDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF			
	Copy to:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type F1 Set Heat Type F2 Start hour F2 Start minute	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	59 3 3	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59	1		
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	Copy to:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type F1 Set Heat Type F2 Start hour F2 Start minute	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	59 3 3	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 5: SATURDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59 0: 1: OFF			
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	Copy to: 1: 2:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type F1 Set Heat Type F2 Start hour F2 Start minute F2 Set Cool type	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	59 3 3	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 5: SATURDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59 0: 1: OFF			
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	Copy to: 1: 2:	Start copy procedure F1 Start hour F1 Start minute F1 Set Cool type F1 Set Heat Type F2 Start hour F2 Start minute F2 Set Cool type F2 Set Cool type F3 Start Hour	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	3 3 24 59 3	4: FRIDAY 5: SATURDAY 6: SUNDAY 7: 0: MONDAY 1: TUESDAY 2: WEDNESDAY 3: THURSDAY 4: FRIDAY 6: SUNDAY 7: ALL 0: NO 1: YES 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59 0: 1: OFF 2: SET1 3: SET2 0 - 23 0 - 59 0: 1: OFF			
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	uux							3: SET2		***************************************	- III
			F3 Set Heat Type	0		0	3		1		
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Period 3 Start numbre 1								2: SET1	1		
Period 5 start month D								3: SET2			
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Period 3 stop month 3				0		0			ı		
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2: SET1									1		
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Mask index	Display description	Description	Default	иом	Min	Max	Possible value descr.	Туре	Read/ Write	BMS index
							3: SET2			
	SD5:	Special day 5 day	0		0	31	0 - 31	- 1		
		Special day 5 month	0		0	12	0 - 12	- 1		
		Special day 5 cool type	0		0	5	0:	- 1		
							1: OFF			
							2: SET1			
							3: SET2			
		Special day 5 heat type	0		0	3	0:	- 1		
							1: OFF			
							2: SET1			
							3: SET2			
	SD6:	Special day 6 day	0		0	31	0 - 31	- 1		
		Special day 6 month	0		0	12	0 - 12	-		
		Special day 6 cool type	0		0	5	0:	- 1		
							1: OFF			
							2: SET1			
							3: SET2			
		Special day 6 heat type	0		0	3	0:	- 1		
							1: OFF			
					-		2: SET1			
					_		3: SET2			

*.	Input/Output									
Mask index	Display description	Description	Default	UOM	Min	Max	Possible value descr.	Туре	Read/ Write	BMS index
D01	Master analog input	High pressure circuit 1		barg/psig	-999,9	999,9	-	A	R	1
	B1= High press.circ.1:	High pressure circuit 1 converted to temperature		°C/°F	-999,9	999,9		A	R	2
	B2= Low press.circ.1:	Low pressure circuit 1		barg/psig	-999,9	999,9	-	A	R	9
		Low pressure circuit 1 converted to temperature		°C/°F	-999,9	999,9	-	A	R	10
D02	Master analog input	5.4		0.00	000.0	000.0			_	20
D03	B2= External temp.:	External temperature		°C/°F	-999,9	999,9		A	R	28
D03	Master analog input B3= Outlet water evap. temp.:	Outlet water evaporator temperature		°C/°F	-999,9	999,9		A	R	18
	B4= Inlet water evap. temp.:	Inlet water evaporator temperature		°C/°F	-999,9	999,9		A	R	17
D04	Master analog input	Evaporator water temperature		°C/°F	-999,9	999,9		A	R	18
DOT	B3= Evaporator water temp.:	Evaporation water temperature		9 1	333,3	555,5		'`		10
	B4= Out.cond.2 temp.:	Outlet water condenser 2 temperature		°C/°F	-999,9	999,9	-	A	R	24
D05	Master analog input	Outlet water evaporator 1 temperature		°C/°F	-999,9	999,9		Α	R	19
	B5= Out.evap.1 temp.:	·		ļ ·	,	,				
D06	Master analog input B5= Inlet cond.reg. temp.	Inlet water condenser temperature		°C/°F	-999,9	999,9		А	R	27
D07	Master analog input	Outlet water condenser 1 temperature		°C/°F	-999,9	999,9	_	A	R	23
50,	B5= Out.cond.1 temp.:	oddet nater condenser i temperature		9.	333,3	333,3				23
D08	Master analog input	High pressure circuit 2		barg/psig	-999,9	999,9		A	R	3
	B6= High press.circ.2:	High pressure circuit 2 converted to temperature		°C/°F	-999,9	999,9		A	R	4
	B7= Low press.circ.2:	Low pressure circuit 2		barg/psig	-999,9	999,9		А	R	11
	·	Low pressure circuit 2 converted to temperature		°C/°F	-999,9	999,9		A	R	12
D09	Master analog input	Outlet water evaporator 2 temperature		°C/°F	-999,9	999,9		A	R	20
	B8= Out.evap.2 temp.:	·		,		,				
D10	Master analog input B8= External temp.:	External temperature		°C/°F	-999,9	999,9		А	R	28
D11	Master analog input B9= External temp.:	External temperature		°C/°F	-999,9	999,9		А	R	28
D12	Master analog input B10= Inlet water cond. temp.	Inlet water condenser temperature		°C/°F	-999,9	999,9	-	А	R	27
D13	Master analog input	Outlet water condenser 1 temperature		°C/°F	-999,9	999,9		Δ	R	23
DIS	B10= Out.cond.1 temp.:	Outlet water condenser i temperature		C/ I	-555,5	555,5		^	IX.	23
D14	Slave analog input	High pressure circuit 3		barg /psig	-999,9	999,9		A	R	5
	B1= High press.circ.3:	High pressure circuit 3 converted to temperature		°C/°F	-999,9	999,9	_	A	R	6
	B2= Low press.circ.3:	Low pressure circuit 3		barg /psig	-999,9	999,9		A	R	13
	р	Low pressure circuit 3 converted to temperature		°C/°F	-999,9	999,9		A	R	14
D15	Slave analog input B4= Out.cond.4 temp.:	Outlet water condenser 4 temperature		°C/°F	-999,9	999,9		A	R	16
D16	Slave analog input	Outlet water evaporator 2 temperature (if unit 4 circuit 2 evaporator)		°C/°F	-999,9	999,9		Δ	R	20
DIO	B5= Out.evap. 2 temp.:	Outlet water evaporator 3 temperature (all other cases)		°C/°F	-999,9	999,9		Δ	R	21
	or B5= Out.evap. 3 temp.:	ouact water evaporator 3 temperature (all other cases)		91	333,3	555,5		Α		21
D17	Slave analog input	High pressure circuit 4		barg /psig	-999,9	999,9		A	R	7
5.,	B6= High press.circ.4:	High pressure circuit 4 converted to temperature		°C/°F	-999,9	999,9		A	R	8
	B7= Low press.circ.4:	Low pressure circuit 4		barg/psig	-999,9	999,9		Ā	R	15
	by compressioner.	Low pressure circuit 4 converted to temperature		°C/°F	-999,9	999,9		A	R	16
D18	Slave analog input	Outlet water evaporator 4 temperature		°C/°F	-999,9	999,9		A	R	22
5.0	B8= Out.evap.4 temp.:	oddet nater eraporator i temperature		9.	333,3	333,3		ľ,	ľ	
D19	Slave analog input	Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator)		°C/°F	0	1		A	R	24
	B10= Out.cond. 2 temp.:	Outlet water condensator 3 temperature (all other cases)		,				A	R	25
	or									
	B10= Out.cond. 3 temp.:									<u> </u>
D20	Master digital input	Digital input 1: High pressure circuit 1	0	-	0	1	0: Close	D	R	1
	01= High press.circ.1:						1: Open			<u> </u>
	02= Low press.circ.1:	Digital input 2: Low pressure circuit 1	0	-	0	1	0: Close	D	R	2
							1: Open			<u> </u>
D21	Master digital input	Digital input 3: Remote On-Off	0	-	0	1	0: Close	D	R	3
	03= Remote On-Off:						1: Open			
	04= Cooling/Heating:	Digital input 4: Change cooling-heating mode	0	-	0	1	0: Close	D	R	4
					1		1: Open			<u> </u>
D22	Master digital input	Digital input 5: Evaporator water flow	0	F	0	1	0: Close	D	R	5
	05= Evap.water flow:			1	1		1: Open]	<u> </u>
	06= Ovrl.cmp.1 circ.1:	Digital input 6: Overload compressor 1 circuit 1	0	-	0	1	0: Close	D	R	6
							1: Open			<u> </u>
D23	Master digital input	Digital input 6: Overload compressor 2 circuit 1	0	- <u>-</u>	0	1	0: Close	D	R	6
	07= Ovrl.cmp.2 circ.1:						1: Open			<u> </u>
	08= Serious alarm:	Digital input 8: Serious alarm	0	-	0	1	0: Close	D	R	8
				1			1: Open		1	1



Description Page 1997 Pa											
Part Description Part	D24		Digital input 9: High pressure circuit 2	0	-	0	1		D	R	9
Description Proceedings Procedure		0 1	Digital input 10: Low proceure circuit 2	0		0	1		D	D	10
Procedure Proc		10— LOW press.circ.z.	Digital input 10. Low pressure circuit 2	O		O			D	K	10
Description	D25		Digital input 11: Overload compressor 1 circuit 2	0		0	1		D	R	11
December Management Martin Mart		<u> </u>	Digital input 12: Overload compressor 2 circuit 2	0		0	1		D	R	12
Production in the Content		,						1: Open			
Description	D26		Digital input 13: Overload evaporator pump 1	0		0	1		D	R	13
Procedure Process Pr	D27		Digital input 13: Overload evaporator pump 1	0	_	0	1		D	R	13
Description Process											
Description September Se		14= Cond.water flow:	Digital input 14: Condenser water flow	0		0	1		D	R	14
December	D28		Digital input 13: Overload evaporator pump 1	0	_	0	1		D	R	13
Description			Digital input 14: Quarland grapherster pump 2	0		0	1		D	D	1.4
Foodcage Sect		14= Ovri.evap.pump 2:	Digital Input 14: Overload evaporator pump 2	U		U	ı		U	K	14
Colored 10 Colored C	D29		Digital input 15: Overload compressor 3 circuit 1	0	_	0	1		D	R	15
Part			Digital input 16: Overload compressor 3 circuit 2	0		0	1		D	R	16
Confident Toke Conf		10- Ovn.drip.5 drc.2.	Digital input 10. Overload compressor 5 circuit 2	O		O				IX.	10
Description	D30		Digital input 17: Condenser water flow	0		0	1		D	R	17
Part	D31		Digital input 1: High pressure circuit 3	0		0	1		D	R	34
Discription	55.	01= High press.circ.3:	• • • • • • • • • • • • • • • • • • • •	Ü		o .					
December		02= Low press.circ.3:	Digital input 2: Low pressure circuit 3	0		0	1		D	R	35
Exchange Locks	D32	Slave digital input	Digital input 6: Overload compressor 1 circuit 3	0		0	1		D	R	36
Dispairable		<u> </u>									
Description		07= Ovrl.cmp.2 circ.3:	Digital input 7: Overload compressor 2 circuit 3	0	_	0	1		D	R	37
Description	D33	Slave digital input	Digital input 9: High pressure circuit 4	0	_	0	1		D	R	38
Description		• .	ROAD AND AND AND AND AND AND AND AND AND A								
Description		10= Low press.circ.4:	Digital input 10: Low pressure circuit 4	0		0	1		D	R	39
12-0 Ordering 2 Circle	D34		Digital input 11: Overload compressor 1 circuit 4	0	_	0	1		D	R	40
Distable degal input Spelal input 13: Overfload evaporator pump 2 Dist Ordering pump 3 Distable pump 4 Distable pump 5 Distable pump 4 Distable pump 5 Distable pump 5 Distable pump 4 Distable pump 5 Distable pump 5 Distable pump 6 Distable pump 7 Distable pump 6 Distable pump 7 Dista			Digital input 12: Ourland compresses 2 signifit 4	0		0	1		D	D	4.1
Discription Process Discription Disc		12= OVII.CIIIp.2 CIC.4:	Digital input 12: Overload compressor 2 circuit 4	U		U			D	K	41
Discording imput Disposition prince Dispositi	D35		Digital input 13: Overload evaporator pump 2	0	_	0	1	0: Close	D	R	42
Source S	D36		Digital input 15: Overload compressor 3 circuit 3	0		0	1		D	P	13
Display	D30		Digital input 15. Overload compressor 5 circuit 5	O		O				IX.	7.5
Description		16= Ovrl.cmp.3 circ.4:	Digital input 16: Overload compressor 3 circuit 4	0	-	0	1		D	R	44
Discomp. 2 or C: Digital output 2: Compressor 2 circuit Digital output 3: Compressor 2 circuit Digital output 3: Compressor 1 circuit 2 Digital output 4: Compressor 2 circuit 2 Digital output 5: Condemore fair group 1 Digital output 5: Condemore fair group 1 Digital output 5: Condemore fair group 2 Digital output 6: Condemore fair group 2 Digital output 6: Condemore fair group 2 Digital output 5: Condemore fair group 2 Digital output 5: Condemore fair group 2 Digital output 6: Condemore fair group 2 Digital output 6: Condemore group 6: Digital output 6: Condemore group 7: Digital output 7: Arithmese heater 7: Digital output 6: Condemore group 7: Digital output 7: Arithmese heater 7: Digital output 7: Arithme	D37	Master digital output	Digital output 1: Compressor 1 circuit 1	0		0	1		D	R	18
Note of the part output Digital output Sompressor Grout 2 Digital output Sompressor Digital output Digital output Sompressor Digital output Digital		01= Comp.1 circ.1:						1: Close			
Master digital output		02= Comp.2 circ.1:	Digital output 2: Compressor 2 circuit 1	0		0	1		D	R	19
Second Process of the Compare Content of the Compare Content of the Compare Content of the Con	D38	Master digital output	Digital output 3: Compressor 1 circuit 2	0		0	1		D	R	20
				_							
Description of the property Digital output Digital		04= Comp.2 circ.2:	Digital output 4: Compressor 2 circuit 2	0		0	1		D	R	21
Digital output Digi	D39		Digital output 5: Condenser fan group 1	0		0	1	0: Open	D	R	22
Naser digital output Digital output 5: Condensing pump 1 Digital output 6: Condensing pump 1 Digital output 6: Condensing pump 2 Digital output 6: Condensing pump 2 Digital output 6: Condensing pump 2 Digital output 7: Antifreeze heater Digital output 8: Serious alarm Digital output 9: Evaporator pump 1 Digital output 9: Evaporator pump 1 Digital output 10: Liquid solenoid 1 Digital output 10: Liquid solenoid 1 Digital output 10: Liquid solenoid 1 Digital output 11: Liquid solenoid 2 Digital output 11: Liquid solenoid 2 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 1 Digital output 13: 4 way valve circuit 1 Digital output 14: Conpressor 3 circuit 1 Digital output 15: Close Digital output 15: A way valve circuit 2 Digital output 15: Close Digital output 16: Close Digital output 16: Close Digital output 16: Close Digital output 16: Conpressor 3 circuit 1 Digital output 16: Close Digital output 16: Conpressor 3 circuit 1 Digital output 16: Close Digital output 16: Conpressor 3 circuit 1 Digital output 16: Conpressor 1 circuit 3 Digital output 16: Conpressor 1 circuit 4 Digital output 17: Close Digital output 17: Close Digital output 17: Close Digital output 17: Close Digital output 18: Conpressor 1 circuit 4 Digital output 18: Conpressor 1 circuit 4 Digital output 18: Conpressor 1 circuit 4 Digital output 18: Conpressor 1 circu			Digital output C. Condenses for group 2	0		0	1		D	n	27
05= Condersing pump 1: 05= Condersing pump 2: 05= Condersing pump 3: 05= Condersing pump 4: 05= Condersing pump		00= Cond.ian group 2.	Digital output 6. Condenser lan group 2	U		U	ı		D	K	23
Defection Defetion	D40		Digital output 5: Condensing pump 1	0		0	1		D	R	22
Data Master digital output Digital output 8: Serious alarm Digital output 9: Evaporator pump 1 Digital output 2 Digital output 2 Digital output 3 Digital output 2 Digital output 3 Digital output 4 Digital output 2 Digital output 3 Digital output 4 Digital output 5 Digital output 4 Digital output 5 Digi			Digital output 6: Condensing nump 2	0		0	1		D	R	23
Digital output 8: Serious alarm: Digital output 8: Serious alarm Digital output 8: Serious alarm Digital output 8: Serious alarm Digital output 9: Evaporator pump 1 Digital output 9: Evaporator pump 1 Digital output 9: Evaporator pump 1 Digital output 10: Liquid solenoid 1 Digital output 10: Liquid solenoid 1 Digital output 11: Liquid solenoid 2 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 2 Digital output 13: 4 way valve circuit 2 Digital output 14: Compressor 3 circuit 1 Digital output 14: Compressor 3 circuit 1 Digital output 14: Compressor 3 circuit 1 Digital output 15: Compressor 3 circuit 2 Digital output 15: Compressor 3 circuit 3 Digital output 15: Compressor 1 circuit 3 Digital output 15: Compressor 2 circuit 3 Digital output 15: Compressor 2 circuit 4 Digital output 3: Compressor 2 circuit 4 Digital output 4: Digital output 4: Compressor 2 circuit 4 Digital output 4: Digital output 4: Digital output 5: Digital output 5: Digital output 5: Digital output 6: Digital output 6: Digital output 6: Digital output 6:		oo- condensing pump 2.	Digital output of Condensing pump 2	O		Ö					23
Description Digital output 8: Serious alarm Digital output 9: Evaporator pump 1 Digital output 9: Evaporator pump 1 Digital output 10: Liquid solenoid 1 Digital output 10: Liquid solenoid 1 Digital output 11: Liquid solenoid 2 Digital output 12: 4 way valve circuit 1 DIGITAL 12: 4 way valve circuit 1 DIGITAL 13: 4 way valve circuit 1 DIGITAL 13: 4 way valve circuit 2 DIGITAL 13: 4 way valve circuit 2 DIGITAL 14: 4 way valve circuit 3 DIGITAL 14: 4 way valve circuit 1 DIGITAL 14: 4 way valve circuit 2 DIGITAL 14: 4 way valve circuit 2 DIGITAL 14: 4 way valve circuit 3 DIGITAL 14: 4 way valve circuit 3 DIGITAL 14: 4 way valve circuit 4 DIGITAL 14: 4 way valve circuit 5 DIGITAL 14: 4 way valve circuit 5 DIGITAL 14: 4 way valve circuit 5 DIGITAL 14: 4 way valve circuit 6 DIGITAL 14: 4 way valve circuit 6 DIGITAL 14: 4 way valve circuit 6 DIGITAL 14: 4 way valve circuit 7 DIGITAL 14: 4 way valve circuit 7 DIGITAL 14: 4 way valve circuit 8 DIGITAL 14: 4 way valve circuit 8 DIGITAL 14: 4 way valve circuit 9 DIGITAL 14: 4 way valve circuit 1 DI	D41		Digital output 7: Antifreeze heater	0		0	1		D	R	24
D42 Master digital output Digital output 9: Evaporator pump 1 0 0 1 D: Open D R 26			Digital output 8: Serious alarm	0		0	1		D	R	25
Description of pump 1: Description Des								1: Close			
D43 Master digital output Digital output 10: Liquid solenoid 1	D42		Digital output 9: Evaporator pump 1	0		0	1		D	R	26
Tile Liquid solenoid 2: Digital output 11: Liquid solenoid 2 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 1 Digital output 12: 4 way valve circuit 2 Digital output 13: 4 way valve circuit 2 Digital output 14: Compressor 3 circuit 1 Digital output 14: Compressor 3 circuit 1 Digital output 14: Compressor 3 circuit 1 Digital output 14: Compressor 3 circuit 2 Digital output 15: Compressor 3 circuit 2 Digital output 16: Evaporator pump 2 Digital output 16: Evaporator pump 2: Digital output 16: Evaporator pump 2 Digital output 17: Compressor 1 circuit 3 Digital output 18: Compressor 2 circuit 3 Digital output 19: Compressor 3 circuit 4 Digital output 19: Compressor 3 circuit 3 Digital output 19: Compressor 1 circuit 3 Digital output 19: Compressor 2 circuit 3 Digital output 19: Compressor 3 circuit 4 Digital output 19: Compressor 1 circuit 4 Digital output 19: Compressor 2 circuit 4 Digital output 19: Compressor 2 circuit 4 Digital output 4: Compressor 1 circuit 4 Digital output 4: Compressor 2 circuit 4 Digital output 5: Compressor 2 circuit 5 Digital output 5: Compressor 2 circuit	D43		Digital output 10: Liquid solenoid 1	0	_	0	1		D	R	27
D44 Master digital output Digital output 12: 4 way valve circuit 1 D D R D D R D D R D D		10= Liquid solenoid 1:						1: Close			
Data Master digital output 12= 4Way valve circ.1:		11= Liquid solenoid 2:	Digital output 11: Liquid solenoid 2	0	_	0	1		D	R	28
13=4Way valve circ.2: Digital output 13: 4 way valve circuit 2 0 0 1 0: Open 1: Close 0 1 1: Close 0 0 1 1: Close 0 0 1 1: Close 0 0 0 0 0 0 0 0 0	D44		Digital output 12: 4 way valve circuit 1	0		0	1		D	R	29
D45 Master digital output Digital output 14: Compressor 3 circuit 1 D D R S1			Division of the second								
Master digital output 14: Compressor 3 circuit 1 0 0 1 0: Open 1: Close 1: Cl		13= 4way valve circ.2:	Digital output 13: 4 way valve circuit 2	0		0	ı		D	K	30
Test Digital output 15: Compressor 3 circuit 2 0 0 1 0: Open D R 32	D45		Digital output 14: Compressor 3 circuit 1	0		0	1	0: Open	D	R	31
D46 Master digital output Digital output 16: Evaporator pump 2 D R 33			Digital output 15: Compressor 3 circuit 2	0		0	1		D	P	32
D46 Master digital output Digital output 16: Evaporator pump 2 D R 33		15— Comp.5 circ.z.	organi output 15. compressor 5 circuit 2	J		<u> </u>	<u> </u>		Ĺ		J.E
Slave digital output Digital output 1: Compressor 1 circuit 3 0 0 1 0: Open D R 45	D46		Digital output 16: Evaporator pump 2	0		0	1		D	R	33
01 = Comp.1 circ.3:	D47		Digital output 1: Compressor 1 circuit 3	0		0	1		D	R	45
1: Close 1: Close 2 2 2 2 2 2 2 2 2	211	01= Comp.1 circ.3:						1: Close	_		
Slave digital output Digital output 3: Compressor 1 circuit 4 0 0 1 0: Open D R 47		02= Comp.2 circ.3:	Digital output 2: Compressor 2 circuit 3	0	-	0	1		D	R	46
03= Comp.1 circ.4: 1: Close 1:	D48	Slave digital output	Digital output 3: Compressor 1 circuit 4	0		0	1		D	R	47
1: Close 1: Close 1 1 1 1 1 1 1 1 1		03= Comp.1 circ.4:						1: Close			
D49 Slave digital output Digital output 9: Evaporator pump 2 0 0 1 0: Open D R 49		U4= Comp.2 circ.4:	Uigital output 4: Compressor 2 circuit 4	U	_	U	1		D	К	48
09= Evaporator pump 2:	D49		Digital output 9: Evaporator pump 2	0		0	1		D	R	49
		09= Evaporator pump 2:						1: Close			<u> </u>



D50	Slave digital output	Digital output 10: Liquid solenoid 3	0		0	1	0: Open	D	R	50
	10= Liquid solenoid 3:						1: Close	1		
	11= Liquid solenoid 4:	Digital output 11: Liquid solenoid 4	0		0	1	0: Open	D	R	51
	i i – Eiquid Soichold II.	Digital datpat 11. Elquid solellold 1	Ü		o .	ľ	1: Close	-		٥,
D51	Slave digital output	Digital output 12: 4 way valve circuit 3	0		0	ļ. —		D	n	50
		Digital output 12: 4 way valve circuit 5	0		U	'	0: Open	υ	K	52
	12= 4Way valve circ.3:						1: Close			<u> </u>
	13= 4Way valve circ.4:	Digital output 13: 4 way valve circuit 4	0		0	1	0: Open	D	R	53
							1: Close			
D52	Slave digital output	Digital output 14: Compressor 3 circuit 3	0		0	1	0: Open	D	R	54
	14= Comp.3 circ.3:						1: Close	1		
	15= Comp.3 circ.4:	Digital output 15: Compressor 3 circuit 4	0		0	1	0: Open	D	R	55
	15— Comp.5 circ.4.	Digital output 15. Compressor 5 circuit 4	o .		0	l'		-	IX	55
	<u> </u>		+		<u> </u>		1: Close	<u> </u>		
D53	Master analog output	Analog output 1: Condenser fan 1 (0-10V)	0	-	0	1000	-	l	R	92
	Y1= Cond.fan group 1:							<u> </u>		
	Y2= Cond.fan group 2:	Analog output 2: Condenser fan 2 (0-10V)	0	-	0	1000		l	R	93
D54	EVO n° Circ. 1					99		l	R	
							0:			
		Twin valve A	0		0	1	1: .a	D	R	
			+			ł	0:			
								-		
							1: Close			
							2: Close			
							3: Std-by			
							4: Pos			
							5: Pos			
							6: Wait			
							7: On			
			ĺ		Ì	1	8: On	Ī		
			ĺ	1			9: On	1		
			ĺ		Ì	1	10: On	1		
			ĺ	1				1		
			ĺ	1			11: On	4		
			ĺ		Ì	1	12: On]		
			ĺ		Ì	1	13: On	Ī		
	Valve status:	EVD status	0		lı	14	14: Init	li .	R	
	Valve opening: %•	Valve A opening percent	0		0	10		Δ	R	
					0				Λ.	
	Valve position: stp	EEV position - Valve A	0	_	0	9999		<u> </u>	R	
	Cool.capacity: %	Cooling capacity - Valve A	0		0	100		l	R	
	Superheat: -	Superheat	0		-72.0	324.0		Α	R	
					1	1	0: -			
							1: K	1		
		nn i f			L		2: °F	4	R	
_		EVD unit of measure	1		!	2	2: 1	<u> </u>	.`	
D55	EVO n°• Circ. 2					99		l	R	
							0:			
		Twin valve B	0		0	1	1: .b	D	R	
			+		1	ľ	0:	F		
							1: Close			
							2: Close			
							3: Std-by			
							4: Pos	1		
								-		
							5: Pos			
							6: Wait			
							7: On			
							8: On			
							9: On			
							10: On			
							10: On 11: On			
							10: On			
							10: On 11: On 12: On] - - -		
	Valve status:	EVID status	0			14	10: On 11: On 12: On 13: On		R	
	Valve status:	EVD status	0		1	14	10: On 11: On 12: On	I A	R	
	Valve opening: %•	Valve A opening percent	0		1 0	10	10: On 11: On 12: On 13: On	l A	R R	<u></u>
	Valve opening: %• Valve position: stp	Valve A opening percent EEV position - Valve A	0 0	 	1 0 0	10 9999	10: On 11: On 12: On 13: On	I A	R R	
	Valve opening: %• Valve position: stp Cool.capacity: %	Valve A opening percent		 	1 0 0	10	10: On 11: On 12: On 13: On	I A I	R R R	
	Valve opening: %• Valve position: stp	Valve A opening percent EEV position - Valve A		 	1 0 0	10 9999	10: On 11: On 12: On 13: On	I A I I	R	
	Valve opening: %• Valve position: stp Cool.capacity: %	Valve A opening percent EEV position - Valve A		 	1 0 0	10 9999	10: On 11: On 12: On 13: On 14: Init	I A I I	R	
	Valve opening: %• Valve position: stp Cool.capacity: %	Valve A opening percent EEV position - Valve A			1 0 0 0	10 9999	10: On 11: On 12: On 12: On 14: Init	I A I I A	R	
	Valve opening: %• Valve position: stp Cool.capacity: %	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A	0		0 0 0	10 9999 100	10: On 11: On 12: On 12: On 13: On 14: Init I: K	I A I I A	R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A	0 0		1 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 14: Init	I A I I A	R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: %	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A	0	 	1 0 0 0 0	10 9999 100	10: On 11: On 12: On 13: On 14: Init	I A I I A	R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 13: On 14: Init	I A I I A	R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A	0 0		1 0 0 0 -72.0	10 9999 100 324.0	10: On 11: On 12: On 13: On 14: Init	I A I I I D	R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 13: On 14: Init	I A I I A	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0	 	1 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I I I I I I I I I I I I I I I I	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0	 	1 0 0 0 0 0	10 9999 100 324.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init I: K 0: 1: K 2: °F 1: Evaporation pressure:	I A I I D D	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 13: On 13: On 14: Init	1 A II II A A II II II II II II II II II	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 13: On 13: On 14: Init	I A I I D	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A II A A II II D D	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I D D	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0 0 0	10 9999 100 324.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init	I A I I I D D	R R R R	
	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat	0 0		1 0 0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I D D	R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A	0 0		1 0 0 0 0 0	10 9999 100 324.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init	I A I I I D D	R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: -	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode	0 0 0		0	10 9999 100 324.0 99 1	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I I I I I I I I I I I I I I I I	R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A	0 0		1 0 0 0 0 -72.0 0 0	10 9999 100 324.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I I I I I I I I I I I I I I I I	R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A	0 0 0		0 0 0 -290.0	10 9999 100 324.0 99 1	10: On 11: On 12: On 12: On 13: On 14: Init	I A I I I I I I I I I I I I I I I I I I	R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A	0 0 0 0 0		0 0 -290.0	10 9999 100 324.0 99 1	10: On 11: On 12: On 12: On 13: On 14: Init		R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1	10: On 11: On 12: On 12: On 13: On 14: Init	1	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init	I	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 13: On 14: Init	I A A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init	I A I I I A A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init		R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init	1 A A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: Init	I A I I I A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init		R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init	1 A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init	I A I I A A A A A A A	R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 11: On 12: On 12: On 13: On 14: Init		R R R R R R	
D56	Valve opening: %• Valve position: stp Cool.capacity: % Superheat: - EVO n° Circ. 1	Valve A opening percent EEV position - Valve A Cooling capacity - Valve A Superheat Twin valve A Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0		0 0 -290.0 -290.0 -290.0 -290.0	10 9999 100 324.0 99 1 1 9 2900.0 2900.0 1000.0	10: On 11: On 12: On 12: On 12: On 13: On 14: Init	1 A A A A A A A	R R R R R R	



	 I	ı	ı	Ī	Ī	Ī	9: -	h	R	1
							9:		K	_
							1: psig			
							2: psig	i		
							3: psig			
							4: psig			
							5: 6: prig	ł		
							6: psig 7: psig			
							8: mA			
		Control mode	0		0	9	9: -	I	R	-
							0:			
							1: Evaporation temp.:			
		Control mode	0		0	0	2: Evaporation temp.:	ı	R	_
		Evaporation temperature - Valve A	0		-76.0	392.0	3: Evaporation temp.:	A	R	_
		Evaporation temperature valve //			70.0	332.0	0:			_
							1: °F	1		
							2: °F	1	R	
		Control mode	0		0	9	3: °F		I.	
							0: 1: °C			
							2: °C	ł		
		Control mode	0		0	9	3: ℃	ı	R	-
D57	EVO n° Circ. 1		0		0	99		ı	R	_
							0:			
		Twin valve B	0		0	1	1: .b	D	R	<u> </u>
			1				0:	l		
			1				1: Suction temperature: 2: Suction temperature:			
			1				2: Suction temperature: 3: Suction temperature:			
			1				4: CO2 gas cooler outlet temperature:	ĺ		
			1				5: Hot gas bypass temperature:	1		
			1				6: -	Ì		
			1				7: -			
	62 k	Control and Is					8: -	ļ.	n	
	S2 probe	Control mode Suction temperature - Valve A	0		-76.0	9 392.0	9: 0-10V analog pos.:	I A	R R	
		CO2 Gas cooler temperature - Valve A	0			392.0		A	R	
		Temperature by-pass hot gas - Valve A	0			392.0	-	A	R	_
		Input value 0-10V - Valve A	0		0	1	-	А	R	
							0: -			
							1: °F			
							2: °F 3: °F			
							4: °F			
							5: °F			
							6: -	1		
							7: -			
							8: -			
		Control mode	0		0	9	9: V	l	R	
							0: - 1: °C			
							2: ℃			
							3: ℃	1		
							4: °C			
							5: ℃			
							6: -			
							7: - 8: -			
		Control mode	0		0		9: V	ı	R	_
	EVO n° Circ. 1		0	_	0	99		ı	R	
D58							0:			
			1				1: Disable			
			1				Condensing pressure: Modulating thermostat on S4 probe:	l		
	S3 probe	Auxiliary Regulation (only for single driver)	l ₁	L	l ₁	4	4: Backup probes \$1:	l	R	L
	,	Condensation pressure	0	 	-290.0	2900.0		A	R	-
		S3 probe value	0			2900.0		Α	R	
			1				0: -			_
		EVD unit of measure	[,		[,		1: barg	ļ	R	
		EAD MIN OF HIGGSME	ľ	F-		4	2: psig 0:	_	ľ	F
							1: Disable	ĺ		
			1				2: Condensing temp.:	ĺ		
			1				3: Modulating thermostat on S4 probe:			
		Auxiliary Regulation (only for single driver)	1	-	70.0	4	4: Backup probes on S3-S4:	1	R	<u> </u>
		Temperatura di condensazione	U		-76.0	392.0	 0: -	A	R	F
							0: - 1: °F	ĺ		
			1				2: °F	1		
			1				3: °F	l		
			1				4: °F			
							5: °F	1		
			1				o. 7: -			
			1				8: -	ĺ		
		Control mode	0	<u>L</u>	0	9	9: V	L	R	<u>L</u>
							0: -			
							1: ℃	ļ		
			1				2: ℃ 3: ℃	Ì		
	1		1	l		l	p. C	L	l	



		i	i				1			
							4: °C			
							5: ℃			
							6: -			
							7: -			
		Control mode	0		0	9	8: -	ı	R	
							9: V			
D59	EVO n° Circ. 2		0		0	99		I	R	
							0:00			
		Twin valve B	0		0	1	1: .b	D	R	-
							0:			
							1: Evaporation pressure:			
							2: Evaporation pressure:			
							3: Evaporation pressure:			
							4: CO2 gas cooler outlet pressure:			
							5:			
							6: Hot gas bypass pressure:			
							7: EPR pressure (back pressure):			
							8: 4-20 mA analog pos.:			
	S3 probe	Control mode	0		1	9	9: -	ı	R	_
		Outlet pressure gas cooler CO2 - Valve B	0		-290.0	2900.0		Α	R	_
		Evaporation pressure - Valve B	0		-290.0	2900.0		Α	R	_
		Bypass hot gas pressure - Valve B	0		-290.0	1000.0		A	R	_
		Back pressure - Valve B	0		-290.0	1000.0		A	R	
		Input value 4-20 mA - Valve B	0		4.0	20.0		Α	R	
		input value 1 20 mil Valve B			1.0	20.0	0:			
							1: barg			
			1				2: barg	l		I
			1				3: barg	l		I
			1				4: barg	l		I
			1				4: Darg 5:	l		I
			1				5: 6: barg	l		I
			1					l		I
			1				7: barg	l		I
		Control mode				0	8: mA	l.	D	I
		Control mode	U	-	0	9	9: -		R	<u> </u>
							0:			
							1: psig			
							2: psig			
							3: psig			
							4: psig			
							5:			
							6: psig			
							7: psig			
							8: mA			
		Control mode	0		0	9	9: -	I	R	-
							0:			
							1: Evaporation temp.:			
							2: Evaporation temp.:			
		Control mode	0		1	3	3: Evaporation temp.:	l	R	_
		Evaporation temperature - Valve B	0		-76.0	392.0		Α	R	
							0:			
							1: ℃			
							2: ℃			
		Control mode	0		0	9	3: ℃	ı	R	
							0:			
							1: °F			
							2: °F			
		Control mode	0		0	9	3: °F		D	
D60	EVO n° Circ. 1	Control mode	0		0	99	5. 1		D	_
D00	EVO II CIIC. I		U		U	99	0:	-	N.	_
							1: Disable			
							2: High condensing temp. prot. on S3:			
							3: Modulating thermostat temperature:			
	C4 probo	Auxiliary Regulation (only for single driver)	,		1	4	4: Backup probe S2:		D	
	S4 probe	Temperature modulating thermostat	0		-76.0	392.0	4. васкир ргове 32.	٨	R	_
		S4 probe value	0		-76.0	392.0		٨	D	_
		o i prope value	0		70.0	JJE.U	0:	-1	11	
			1				0: 1: °C	l		1
			1				i. C	l		I
		nn : (L		L			l.		I
-	la constant de la con	EVD unit of measure	[1	-	-	2	2: °F		K	<u> </u>
	EVO n° Circ. 2		0	<u> </u>	0	99		1	К	<u> </u>
		L	L			L	0:	L		I
		Twin valve B	0		0	1	1: .b	D	К	<u> </u>
							0:			
							1: Suction temperature:			
D61							2: Suction temperature:			
							3: Suction temperature:			
							4: CO2 gas cooler outlet temperature:			
			1				5: Hot gas bypass temperature:	l		I
			1				6: -	l		I
			1				7: -	l		I
			1				8: -	l		I
	S4 probe	Control mode	0	 	1	9	9: 0-10V analog pos.:		R	<u> </u>
		Bypass hot gas temperature - Valve B	0	F	-76.0	392.0	-	A	R	
		Suction temperature - Valve B	0	<u> </u>	-76.0	392.0		A	R	<u> </u>
		Outlet temperature gas cooler CO2 - Valve B	0	<u> </u>	-76.0	392.0	-	A	R	<u> </u>
							0: -			
			1				1: °F			1
			1				2: °F	l		1
			1				3: °F	l		I
			1				4: °F			1
_		Control mode	0	<u> </u>	0	9	5: °F	L	R	<u>L</u>

CA	R	E	L	
			_	



CAN										
	1				I		6: -	I		1
							7: -	1		
							8: -	1		
							9: V			
							0: -		†	_
							1: °C	1		
							2: ℃	1		
							3: ℃	1		
								4		
							4: °C			
							5: °C			
							6: -			
							7: -			
							8: -			
		Control mode	0		0	9	9: V	I	R	
D62	EVO n° Circ. 1&2		0		0	99		l	R	-
DOZ							0: Open		1	
	Digital input status DI1:	DI1 status	0		0	1	1: Close	D	R	
	- 8 F =				_		0: Open		+	
	DI2:	DI2 status	0		0	1	1: Close	D	R	
	EVO n°• Circ. 3	DIZ Status	0		U	00	1. Close	ı	R	
	EVOTI CITC. 3		-			99	0	-	N.	
D63		T					0:	L		
		Twin valve A	0		0	1	1: .a	D	R	
							0:			
							1: Close			
							2: Close	1		
							3: Std-by	1		
	1			1			4: Pos	1	1	
	1			1			5: Pos	1	1	
	1			1				ł	1	
	1			1			6: Wait	1	1	
	1			1			7: On	4	1	
	1			1	Ī		8: On			1
	1			1	Ī		9: On	1		1
	1			1	Ī		10: On]		1
							11: On	1		
							12: On	1		
							13: On	1		
	Valve status:	EVD status	0		1	14	14: Init	1	R	
	Valve opening: %•	Valve A opening percent	0		0	10	14. IIIIL	٨	R	_
			0		0					
	Valve position: stp	EEV position - Valve A	0	_	0	9999		_	R	
	Cool.capacity: %	Cooling capacity - Valve A	0		0	100		l	R	
	Superheat: -	Superheat	0		-72.0	324.0		Α	R	
							0: -			
							1: K			
		EVD unit of measure	1		1	2	2: °F	1	R	-
D64	EVO n°• Circ. 4		1			99			R	
DOT	EVO II CIIC. I		+			55	0:	Ė	+	
		Twin valve B	0		0	1		D	R	
		I WIII Valve B	0		U	l	1: .b	D	K	
							0:			
							1: Close	J		
							2: Close			
							3: Std-by	1		
							4: Pos	1		
							5: Pos	1		
							6: Wait	1		
							7: On	-		
								4		
							8: On			
							9: On			
							10: On			
	1			1	Ī		11: On]		1
	1			1	Ī		12: On			1
	1			1	Ī		13: On	1		1
	Valve status:	EVD status	0	L	lı	14	14: Init	l l	R	L
	Valve opening: %•	Valve A opening percent	0		0	10		Α	R	<u> </u>
	Valve position: stp	EEV position - Valve A	0	L	0	9999			R	\vdash
	Cool capacity: 04		0	1	0	100		i	R	
	Cool.capacity: %	Cooling capacity - Valve A	0	-	72.0			^		+
	Superheat: -	Superheat	U	Γ	-72.0	324.0		A	R	
	1			1	Ī		0: -			1
	1			1	Ī		1: K		D	1
		EVD unit of measure	1		1	2	2: °F		R	
D65	EVO n° Circ. 3		0	<u> </u>	0	99		L	R	L -
							0:			
		Twin valve A	0		0	1	1: .a	D	R	<u> -</u>
							0:		1	
							1: Evaporation pressure:	1		
							2: Evaporation pressure:			
							2: Evaporation pressure: 3: Evaporation pressure:			
							2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure:			
							2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5:			
							2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure:			
							2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR:			
							2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR:			
	S1 probe		0		0	q	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	1	R	_
	S1 probe	Control mode	0		0	9	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR:		R	
	S1 probe	Control mode Evaporation pressure - Valve A	0		0 -290.0	9 2900.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	I A	R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A	0 0 0	 	-290.0	2900.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	I A	R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A	0 0 0 0	 	-290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0		-290.0 -290.0 -290.0	2900.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A	0 0 0 0 0		-290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 3: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.:	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 5: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.: 9: 0:	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 5: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.: 9: 0: 1: barg	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0 0	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 5: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.: 9: 0: 1: barg 2: barg	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A Input value 4-20mA - Valve A	0 0 0 0 0 4	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 5: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.: 9: 0: 1: barg 2: barg 5: barg	A A	R R R	
	S1 probe	Control mode Evaporation pressure - Valve A CO2 Gas cooler pressure - Valve A Pressione EPR (back pressure) - Valve A Pressure by-pass of hot gas - Valve A	0 0 0 0 0 0 4	 	-290.0 -290.0 -290.0	2900.0 1000.0	2: Evaporation pressure: 5: Evaporation pressure: 4: CO2 gas cooler outlet pressure: 5: 6: Hot gas bypass pressure: 7: Back pressure EPR: 8: 4-20 mA analog pos.: 9: 0: 1: barg 2: barg	A A	R R R	



		•	ė.							
							5:			
							6: barg			
							7: barg			
							8: mA			
								1.		
							9: -	<u> </u>	R	
							0:			
							1: psig			
							2: psig			
							3: psig			
							4: psig			
							5:			
							6: psig			
							7: psig	1.		
							8: mA	ľ	R	
		Control mode	0		0	9	9: -			
							0:			
							1: Evaporation temp.:			
							2: Evaporation temp.:			
		Control mode	0		0			1	R	
		Control mode	0		0		3: Evaporation temp.:	<u> </u>		
		Evaporation temperature - Valve A	0	_	-76.0	392.0		A	R	
							0:			
							1: °F			
							2: °F		_	
		Control mode	0		0	9	3: °F	1	R	_
							0:			
			1	1			0 1: ℃	1	1	
				1			1: ℃ 2: ℃	1	1	
				1			z. C	-	R	L-
				1				l	1	
		Control mode	0		0	9	3: ℃	l	1	
	EVO n° Circ. 3		0	-	0	99		i	R	_
		 			-		0:	Ť	ř –	
		Twin valvo R	0	1	0	1		D	R	
		Twin valve B	U	-	U	I .	1: .b	ν	Γ	_
			1	1			0:	1	1	
				1			1: Suction temperature:	1	1	
							2: Suction temperature:			
D66							3: Suction temperature:			
							4: CO2 gas cooler outlet temperature:			
							5: Hot gas bypass temperature:			
							5. Hot gas bypass temperature.			
							b: - -			
							7: -			
							8: -			
	S2 probe	Control mode	0		0	9	9: 0-10V analog pos.:		R	
		Suction temperature - Valve A	0	_	-76.0	392.0	_	Α	R	_
		CO2 Gas cooler temperature - Valve A	0			392.0		Α	R	
		Temperature by-pass hot gas - Valve A	0			392.0		A	R	
		Input value 0-10V - Valve A	0			-		Ε.	R	
		iliput value 0-10v - valve A	•	_	0	1	-	A	K	
		input value 0-10v - valve A	Ü	-	0	1	0: -	A	K	
		Infpit value 0-10v - valve A			0		1: °F	A	K	
		imput value 0-100 - valve A			0		1: °F 2: °F	A	K	
		input value 0-10V - valve A			0		1: °F 2: °F	A	K	
		imput variue 0-10v - valve x			0		1: °F 2: °F 3: °F	A	K	
		imput value 0-10V - Valve A		_	0		1: °F 2: °F 3: °F 4: °F	A	K	
		imput value 0-10V - Valve A		_	0		1: °F 2: °F 3: °F	A	ĸ	
		imput value 0-10V - valve A		_	0		1: °F 2: °F 3: °F 4: °F	A	K	
		imput value 0-10V - valve A	<u> </u>		0		1: °F 2: °F 3: °F 4: °F 5: °F 6: -	A	K	
					0		1: °F 2: °F 3: °F 4: °F 5: °F 6: - 7: -	A	R	
		Control mode	0		0		1: °F 2: °F 3: °F 4: °F 5: °F 6: -	I	R	
			0		0		1: °F 2: °F 3: °F 4: °F 5: °F 6: - 7: -	A I		
			0		0		1: °F 2: °F 3: °F 4: °F 5: °F 6: - 7: - 8: - 9: V	A		
			0		0	9	1: °F 2: °F 5: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C	A		
			0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C	I		
			0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C			
			0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C			
			0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C			
			0	-	0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 6: -			
			0		0	9	1: °F 2: °F 5: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 5: °C 6: - 7: -			
		Control mode	0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: -			
			0		0	9	1: °F 2: °F 5: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 5: °C 6: - 7: -			
	EVO n° Circ. 3	Control mode	0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: -		R	
	EVO n° Circ. 3	Control mode	0		0	9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: -		R	
	EVO nº Circ. 3	Control mode	0 0 0		0	9 9 99	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 5: °C 6: - 7: - 8: - 9: V 0: - 0: - 0: - 0: - 0: - 0: - 0: - 0: -		R	
	EVO n° Circ. 3	Control mode	0 0 0		0	9 9 9	1: °F 2: °F 3: °F 4: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 6: - 7: - 8: - 9: V - 1: Disable		R	
D67	EVO n° Circ. 3	Control mode	0		0	9 9 9	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure:		R	
		Control mode Control mode	0 0 0		0	9 9 9	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V - 0: - 1: Disable 2: Condensing pressure: 5: Modulating thermostat on S4 probe:		R R R	
	EVO n° Circ. 3	Control mode Control mode Auxiliary Regulation (only for single driver)	0 0 0		0 0	9 9 999	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure:		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure	0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V - 0: - 1: Disable 2: Condensing pressure: 5: Modulating thermostat on S4 probe:		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 999	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V - 0: - 1: Disable 2: Condensing pressure: 5: Modulating thermostat on S4 probe:		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V - 0: - 1: Disable 2: Condensing pressure: 5: Modulating thermostat on S4 probe:		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0:		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 99: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: barg		R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Is barg 2: psig		R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value	0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V - 7: - 8: - 9: V - 1: °C 2: °C 6: - 7: - 8: - 9: V - 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: barg 2: psig		R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes \$1: 0: - 1: brag 2: psig 0: 1: Disable		R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: barg 2: psig 0: 1: Disable 2: Condensing pressure:		R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value EVD unit of measure	0 0 0 0 1 1 0 0 0 1		0 0 0 1 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 3: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: barg 2: psig 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: Disable 2: Salage of the service of th		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 0 1 1 1 1		0 0 0 1 -290.0 -290.0	9 9 999 4 2900.0 2900.0	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: barg 2: psig 0: 1: Disable 2: Condensing pressure:		R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 4 2900.0 2900.0	1: °F 2: °F 3: °F 3: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: psig 0: 1: Disable 2: psig 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: Significant probes S1: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe:		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value EVD unit of measure	0 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 999 4 2900.0 2900.0	1: °F 2: °F 3: °F 3: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: psig 0: 1: Disable 2: psig 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: Significant probes S1: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe:		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 4 2900.0 2900.0 2	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: 0: 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: 0:		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 4: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: Condensing temp: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 2: Condensing pressure: 4: Backup probes S1: - 1: Disable 3: Modulating thermostat on S4 probe: 4: Backup probes S1: - 1: Disable 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: - 1: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: Disable 2: psig 0: 1: Disable 2: psig 0: 1: Disable 2: Si Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: - 0: - 1: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: barg 2: psig 0: 1: barg 2: Condensing temp: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: 1: °F 2: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: - 1: °F 1: °F 2: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 3: °F 4: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 1: barg 2: psig 0: 1: barg 2: Condensing temp: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: 1: °F 2: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure S3 probe value EVD unit of measure Auxiliary Regulation (only for single driver) Temperatura di condensazione	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: - 1: °F 1: °F 2: °F		R R R R R	
		Control mode Control mode Auxiliary Regulation (only for single driver) Condensation pressure 53 probe value EVD unit of measure Auxiliary Regulation (only for single driver)	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 1 -290.0 -290.0	9 9 99 99 2900.0 2900.0 2	1: °F 2: °F 3: °F 5: °F 6: - 7: - 8: - 9: V 0: - 1: °C 2: °C 3: °C 4: °C 5: °C 6: - 7: - 8: - 9: V 0: 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing pressure: 3: Modulating thermostat on S4 probe: 4: Backup probes S1: 0: - 1: Disable 2: Condensing temp.: 3: Modulating thermostat on S4 probe: 4: Backup probes on S3-S4: - 1: °F 1: °F 2: °F		R R R R R	



										
							8: -			
							9: V			
							0: -			
							o. 1: ℃			
							2: ℃			
							3: ℃			
							4: °C			
							5: ℃			
							6: -			
							7: -			
							8: -			
		Control mode	0		0		9: V	ı	R	
D68	EVO n° Circ. 4		0		0	99	J. V		D	
D00	EVO II CIIC. 4		U		U			_	K	
		T : 1 0					0:00	_		
		Twin valve B	0		0			D	R	
							0:			
							1: Evaporation pressure:			
							2: Evaporation pressure:			
							3: Evaporation pressure:			
							4: CO2 gas cooler outlet pressure:			
							5:			
							6: Hot gas bypass pressure:			
							7: EPR pressure (back pressure):			
							8: 4-20 mA analog pos.:			
	S3 probe	Control mode	0		1	9	9: -	l	R	
			0		-290.0	2900.0	_	A	R	<u> </u>
			0	<u> </u>	-290.0	2900.0		A	R	<u> </u>
		Bypass hot gas pressure - Valve B	0	-	-290.0	1000.0		Α	R	⊢
			0		-290.0	1000.0		Α	R	_
			0		4.0	20.0		Α	R	
							0:			
							1: barg			Ī
							2: barg			Ī
							3: barg			
							4: barg			Ī
							5:			
							6: barg			
							7: barg			
							8: mA			
		Control mode	0		0		9: -	ı	P	
		Control mode	U		U		0:	-	IX.	_
							1: psig			
							2: psig			
							3: psig			
							4: psig			
							5:			
							6: psig			
							7: psig			
							8: mA			
		Control mode	0		0		9: -		n	
		Control mode	U	-	U	,	7.5		K	
							0:			
							1: Evaporation temp.:			
							2: Evaporation temp.:			
		Control mode	0		1	3	3: Evaporation temp.:		R	
		Evaporation temperature - Valve B	0		-76.0	392.0		Α	R	-
							0:			
							1: ℃			
							2: ℃			
		Control mode	0		0		3: ℃	ŀ	R	L
		control mode	ř		Ÿ		0:			\vdash
							1: °F			
		L					2: °F	l		Ī
			0		0		3: °F		R	-
D69	EVO n° Circ. 3		0	<u></u>	0	99			R	<u> </u>
							0:			l
							1: Disable			Ī
							2: High condensing temp. prot. on S3:			Ī
							3: Modulating thermostat temperature:			Ī
	S4 probe	Auxiliary Regulation (only for single driver)	lı		1	4	4: Backup probe S2:	ŀ	R	L
	o . p. obc		0	L	-76.0	392.0	sackup probe Jz.	Δ	D.	
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	EVO n° Circ. 3&4		0	 0	99		ı	R	_
D71	Digital input status DI1:	DI1 status	0	 0	1		D	R	
	DI2:	DI2 status	0	0		0: Open 1: Close	D	R	L
D72	EVO n° Circ. 1&2	DIZ Status	0	0		1. close		<u> </u>	
0,2		Discharge SH		324	-76	K/°F	Α	R	
	Disch. SH set					K/°F	Α	R	
	Disch Temp.	Discharge temperature				K/°F	Α	R	
	Disch Temp. Set	•		200		K/°F	Α	R	
D73	EVO n° Circ. 3&4								
		Discharge SH				K/°F	Α	R	
	Disch. SH set						А	R	
		Discharge temperature				K/°F	Α	R	
	Disch Temp. Set			200	-60	K/°F	Α	R	

Data logger

Display description	Description	Default	UOM	Min	Max	Possible value descr.	Туре	Read/ Write	B/ inc
N°	Progressive history number	0	_	0	100		I		-
	Alarm happened hour	0		0	23		1		
	Alarm happened minute	0	-	0	59		1		
	Alarm happened day			0	31				
	Alarm happened month	0		0	12		1		
	Alarm happened year	0		0	99		1		
	Alarm code and description	0	-	0	999	0: No alarm	1		
						1: ALG01 Clock board fault or not connected			
						2: ALG02 Extended memory fault			
						3: ALR03 Serious alarm by DIN			
						4: ALO04 Slave offline			
						5: ALA05 High pressure circ.1 probe fault			
						6: ALA06 High pressure circ.2 probe fault			
						7: ALA07 High pressure circ.3 probe fault			
						8: ALA08 High pressure circ.4 probe fault			
						9: ALA09 Low pressure circ.1 probe fault			
						10: ALA10 Low pressure circ.2 probe fault			
						11: ALA11 Low pressure circ.3 probe fault			
						12: ALA12 Low pressure circ.4 probe fault			
						13: ALA13 Inlet water evap.temp. probe fault			
						14: ALA14 Inlet water cond.temp. probe fault			
						15: ALA15 Out.water evap.temp. probe fault			
						16: ALA16 Outlet evap.1 temp. probe fault			
						17: ALA17 Outlet evap.2 temp. probe fault			
						18: ALA18 Outlet evap.3 temp. probe fault			
						19: ALA19 Outlet evap.4 temp. probe fault			
						20: ALA20 Outlet cond.1 temp. probe fault			
						21: ALA21 Outlet cond.2 temp. probe fault			
						22: ALA22 Outlet cond.3 temp. probe fault			
						23: ALA23 Outlet cond.4 temp. probe fault			
						24: ALA24 Evaporator water temp. probe fault			
						25: ALA25 External temperature probe fault			
						26: ALT26 Compressor 1 circuit 1 Maintenance warning			
						27: ALT26 Compressor 2 circuit 1 Maintenance warning			
						28: ALT26 Compressor 3 circuit 1 Maintenance warning			
						29: ALT26 Compressor 1 circuit 2 Maintenance warning			
						30: ALT26 Compressor 2 circuit 2 Maintenance warning			
						31: ALT26 Compressor 3 circuit 2 Maintenance warning			
						32: ALT26 Compressor 1 circuit 3 Maintenance warning			
						33: ALT26 Compressor 2 circuit 3 Maintenance warning			
						34: ALT26 Compressor 3 circuit 3 Maintenance warning			
						35: ALT26 Compressor 1 circuit 4 Maintenance warning			
						36: ALT26 Compressor 2 circuit 4 Maintenance warning			
						37: ALT26 Compressor 3 circuit 4 Maintenance warning			
						38: ALT27 Condenser fan group 1 Maintenance warning			
						39: ALT27 Condenser fan group 2 Maintenace warning			
						40: ALT28 Condenser pump 1 Maintenance warning			
						41: ALT28 Condenser pump 2 Maintenance warning			
						42: ALT29 Evaporator pump 1 Maintenance warning			
			1			43: ALT29 Evaporator pump 2 Maintenace warning			1
						44: ALC30 Compressor 1 circuit 1 overload alarm			
						45: ALC30 Compressor 2 circuit 1 overload alarm			
l	1		ı			46: ALC30 Compressor 3 circuit 1 overload alarm			1



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	or In.evap.: or In.cond.:	or Inlet avaporator or Inlet condenser	temperature	*	°C/°F	0	999,9	137: ALC 138: ALC 139: ALC 140: ALC 141: ALC 142: ALC 143: ALC 145: ALC 146: ALC 147: ALC 148: ALC 150: ALC 151: ALC 152: ALC 153: ALC 154: ALC	68 Probe S 68 Probe S 68 Probe S 68 Probe S 66 Probe S 66 Priver ci 67 Driver ci 77 Driver ci	ircuit 1-2 offline 1 Driver circ.3 pr 2 Driver circ.3 pr 3 Driver circ.4 pr 4 Driver circ.4 pr 4 Driver circ.4 pr ircuit 3 Iow SH a ircuit 4 Iow SH a ircuit 4 Iow SH a ircuit 5 IOP alarn ircuit 5 IOP alarn ircuit 3 IOP alarn ircuit 3 HOP alarn ircuit 3 HOP alarn ircuit 3 HOP alarn ircuit 3 MOP alar ircuit 3 MOP alar ircuit 3 MOP alar ircuit 3 Iow SH ircuit 3 Iow Suction ircuit 4 Iow Suction ircuit 4 Iow Suction ircuit 3 Iow Suction ircuit 4 Iow Suction ircuit 3 Iow Suction ircuit 4 Iow Suction Iow Suct	obe fault obe fault obe fault obe fault larm larm m m m ad alarm M alarm arm on alarm on alarm alarm		A		
	or Out.evap.: Out.evap.:	or Outlet evaporat Outler evaporator			°C/°F	0	999,9						A		
	or In.evap.:	or Inlet evaporator te	mperature												
	D														
Mask index	Board switch Display description	Description			Default	UOM	Min	Max	Pos	sible value desc	т.		Туре	Read/ Write	BMS index
F01	Unit address:		ntroller in a pLAN network		0		0	31	-					write	
_	pLAN status	The picture show t	the status of the devices connected	via pLAN	ρ				1					<u> </u>	<u> </u>
	Service		les as as a					la .	1	la .	1.	T			
Ga01	Language: ENGLISH ENTER to change		Show the current language and g	ive the informa	tion to chan	ige langua;	ge	0		0	1		-		
Ga02	Show mask time: Disable language mask	at start-up:	Countdown to jump into main m Disable the change language mass					0	S	0	999 1	0: NO	l D	-	
								50		0	200	1: YES			
	Show mask time: s		Starting value of countdown, time	е от регтапенс	e on change	e iariguage	HIIdSK	60	5	U	999		!		
Informa Gb01	ation Carel Industries S.r.l		Chiller Core software version					_		0	9,99		- II	L	
GD01	Code: Chiller_Core Ver.:		Crimer core solution version								3,33		ĺ		
	Manual code:		Chiller Core manual code					0							
	Bios: Boot:		Bios version and date Boot version and date					0		-			<u> </u>		
Gb02	pCO type:		Type of pCO controller					0		0	8	0: pCO3	İ	-	-
			Type of the controller					0		0	17	1: pCO5 0:			
			Type of the controller								17	1:	<u> </u>		
												2:			
												4:			
												5:			
												6: 7:			
												8:			
												9: 10: Large			
												11: Medium			
												12: Small 13: XL N.O.			
												14:			
												15:			
												16: 17: XL N.C.			
	Total flash:		Indicates the size of the flash					0	KB	0	9999		ı	-	
	Ram: Built-In type:		Indicates the size of the RAM Dispaly built-in type					0	KB	0	9999	 0: None	1		
	урс.		- Spart Salle III type					ſ		Ĩ		1:			
								1				2: PGD0 3: PGD1			
	Main cycle:		Main program cycle time					0	s	0	99,9		A	<u> </u>	
Gb03	cycle/s		number of cycle per second	·				0	<u> </u>	0	9999	 0: CH		D // /	1
UDU5	Unit:		Unit type					[_	U	2	0: CH 1: CH/HP		R/W	[
			Physical circuit type					0	L	0	1	2: HP	D	D/W	56
			Physical circuit type					U		U		0:Air/Water 1: Water/Water	——I	R/W	סכ
	Gas type:		Refrigerant type					0		0	13	0: R22	l l	R/W	2
								1				1: R134a 2: R404a			
								1				3: R407c			
								1				4: R410a 5: R507			
								1				6: R290			
								1				7: R600			
			1					1	I	1	1	8: R600a	1		1



		•					•			
							9: R717			
							10: R744			
							11: R728			
							12: R1270			
	e: :						13: R417a		D 444	ــــــ
	Circuits:	Circuit number	0		0	4			R/W	3
	Compr.per circ.:	Compressor number per circuit	0		0	3			R/W	4
	Evaporators:	Evaporators number	0		0	4	0.65-1-	I	R/W	5
	Condensation:	Condensing type	0		0	1	0: Single		R/W	58
Class	-	ED BIO 4 C					1: Separated		_	+
Gb04	Firmware version:	EVD EVO 1 firmware version	0		0.0	800.0			K	
Gb05	Firmware version:	EVD EVO 2 firmware version	0		0.0	0.008		!	R	
Cooling/	/Heating									
Gc01	Unit mode:	Temporary variable for manage unit working mode	0		0	1	0: COOLING		R/W	62
							1: HEATING			
		Unit working mode	0		0	1	0: Cooling	D	1	
							1: Heating			
Working	hours	<u> </u>					•			
Gd01	Evaporator pump 1:	Evaporator pump 1 working hour-high part	0	h	0	999			L	
Guoi	Evaporator pamp 1:	Evaporator pump 1 working hour-low part	0	h	0	999		- i -		
	Evaporator pump 2:	Evaporator pump 2 working hour-high part	0	h	0	999		— <u>i</u>	<u> </u>	
	Evaporator parrip 2.	Evaporator pump 2 working hour-low part	0	h	0	999			<u> </u>	
Gd02	Circuit 1	Compressor 1 circuit 1 working hour-high part	0	h	0	999			+	+
Guoz	Compressor 1:	Compressor 1 circuit 1 working hour-low part	0	h	0	999	_		L -	+
	Compressor 2:	Compressor 1 circuit 1 working hour-how part Compressor 2 circuit 1 working hour-high part		h	0	999	L	-#-	L -	+
	Compressor z.	Compressor 2 circuit 1 working hour-light part Compressor 2 circuit 1 working hour-low part		h	0	999		-	£	\leftarrow
	Compressor 7:	Compressor 2 circuit 1 working hour-low part Compressor 3 circuit 1 working hour-high part		h	0		F	_#_	F	+
	Compressor 3:		— Ľ	h	0	999 999	 	_#_	-	-
Gd03	Circuit 2	Compressor 3 circuit 1 working hour-low part		li b	0		-		₽	+
G0U3	Circuit 2	Compressor 1 circuit 2 working hour-high part	<u> </u>	II	0	999				+
	Compressor 1:	Compressor 1 circuit 2 working hour-low part	0	n ı.	U	999	ļ 	_#_		+
	Compressor 2:	Compressor 2 circuit 2 working hour-high part	0	h	0	999				
		Compressor 2 circuit 2 working hour-low part	0	n	0	999	-		<u> </u>	
	Compressor 3:	Compressor 3 circuit 2 working hour-high part	0	h	0	999				
0.1-	6. 3.4	Compressor 3 circuit 2 working hour-low part	0	h	0	999			-	+
Gd04	Circuit 3	Compressor 1 circuit 3 working hour-high part	0	h	0	999			<u> </u>	
	Compressor 1:	Compressor 1 circuit 3 working hour-low part	0	h	0	999				
	Compressor 2:	Compressor 2 circuit 3 working hour-high part	0	h	0	999		l		
		Compressor 2 circuit 3 working hour-low part	0	h	0	999				
	Compressor 3:	Compressor 3 circuit 3 working hour-high part	0	h	0	999				
		Compressor 3 circuit 3 working hour-low part	0	h	0	999		l l		
Gd05	Circuit 4	Compressor 1 circuit 4 working hour-high part	0	h	0	999				
	Compressor 1:	Compressor 1 circuit 4 working hour-low part	0	h	0	999		1		
	Compressor 2:	Compressor 2 circuit 4 working hour-high part	0	h	0	999				-
		Compressor 2 circuit 4 working hour-low part	0	h	0	999				
	Compressor 3:	Compressor 3 circuit 4 working hour-high part	0	h	0	999			Ţ	T
		Compressor 3 circuit 4 working hour-low part	0	h	0	999			Ī	T
Gd06	Condenser fan	Condenser fan 1 working hour-high part	0	h	0	999				
	Group 1:	Condenser fan 1 working hour-low part	0	h	0	999				
	Group 2:	Condenser fan 2 working hour-high part	0	h	0	999				
		Condenser fan 2 working hour-low part	0	h	0	999				
Gd07	Condenser pump 1:	Evaporator pump 1 working hour-high part	0	h	0	999				
		Evaporator pump 1 working hour-low part	0	h	0	999				
	Condenser pump 2:	Condenser pump 2 working hour-high part	0	h	0	999				
		Condenser pump 2 working hour-low part	0	h	0	999			-	1
DMC C	-£-				1	1				
BMS Cor		la			1.	-	I. a.a.			
	Supervisor system					2	0: CAREL			
Ge01		Protocol type	0		0	Ť.				
Ge01	Protocol:	riotect type	0		0		1: MODBUS			
Ge01		"	0	-	0		2: WINLOAD			
Ge01	Protocol: Speed:	Baud rate	4		0	4	2: WINLOAD 0: 1200	1		-
Ge01		"	4		0	4	2: WINLOAD 0: 1200 1: 2400			
Ge01		"	4		0	4	2: WINLOAD 0: 1200 1: 2400 2: 4800			
Ge01		"	4		0	4	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			<u> </u>
Ge01	Speed:	Baud rate	4		0	4	2: WINLOAD 0: 1200 1: 2400 2: 4800			
Ge01		"	4		0	4 207	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			
	Speed: Ident:	Baud rate	4		0	4 207	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			
	Speed: Ident:	Baud rate	0 4	 X1000h	0	•	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			
Working	Speed: Ident:	Baud rate Address of the controller in a supervisory system network n.1	0 4	X1000h	0	207	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			
Working	Speed: Ident: Shour set Evaporator pump 1	Baud rate Address of the controller in a supervisory system network n.1	0 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	X1000h	0	•	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600			
Working	Speed: Ident: Brour set Evaporator pump 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1	0 0 10 0	X1000h		•	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200			
Working	Speed: Ident: Brour set Evaporator pump 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter	0 10 0 110			•	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N			
Working	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1	0		0	99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N			
Working	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter	0		0	99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N			
Working	Speed: Ident: Ident: Indent: Indent	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2	0		0	99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y			
Working	Speed: Ident: Ident: Indent: Indent	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2	0		0	99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	D D		
Working Gfa01	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1	0 10 0	X1000h	0 0	99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y			
Working Gfa01	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1	Baud rate Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter	0 10 0	X1000h	0 0	99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y			
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1	0 10 0	X1000h	0 0 0	99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y	I D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1	0 10 0	X1000h	0 0 0	99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y 0: N	I D		
Working Gfa01	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter	0 10 0 10 0	X1000h X1000h	0 0 0 0	99 1 99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y 0: N	I D		
Working Gfa01	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter	0 10 0 10 0	X1000h X1000h	0 0 0 0	99 1 99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y 0: N	I D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1	0 10 0 10 0	X1000h X1000h	0 0 0 0 0 0 0	99 1 99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y 0: N 1: Y	I D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1	0 10 0 10 0	X1000h X1000h	0 0 0 0 0 0 0	99 1 99 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	I D		
Working Gfa01	Speed: Ident: g hour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter Max operate hours of compressor 3 circuit 1	0 10 0 10 0 10	X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	I D		
Working Gfa01	Speed: Jident: Jour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter	0 10 0 10 0 10	X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	I D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter	0 10 0 10 0 10	X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N 1: Y 0: N 1: Y 0: N 1: Y	D D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter	0 10 0 10 0 10	X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	D D		
Working Gfa01	Speed: Ident: Ident: In our set Evaporator pump 1 Thres.: Evaporator pump 2 Thres.: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter	0 10 0 10 0 10 0	X1000h X1000h X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1 99 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	D D		
Working Gfa01	Speed: Jident: Jour set Evaporator pump 1 Thres:: Reset: Evaporator pump 2 Thres:: Reset: Compressor 1 circuit 1 Thres:: Reset: Compressor 2 circuit 1 Thres:: Reset: Compressor 3 circuit 1 Thres:: Reset: Compressor 1 circuit 2	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter	0 10 0 10 0 10 0	X1000h X1000h X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1 99 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	D D		
Working Gfa01	Speed: Ident: Ident: In our set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1 Thres.: Reset:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter	0 10 0 10 0 10 0	X1000h X1000h X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 99 1 1 99 1 1 99	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y	D D		
Working Gfa01	Speed: Jident: Shour set Evaporator pump 1 Thres.: Reset: Evaporator pump 2 Thres.: Reset: Compressor 1 circuit 1 Thres.: Reset: Compressor 2 circuit 1 Thres.: Reset: Compressor 3 circuit 1 Thres.: Reset: Compressor 1 circuit 2 Thres.:	Address of the controller in a supervisory system network n.1 Max operate hours of evaporator pump 1 Reset evaporator pump 1 hour counter Max operate hours of evaporator pump 2 Reset evaporator pump 2 hour counter Max operate hours of compressor 1 circuit 1 Reset compressor 1 circuit 1 hour counter Max operate hours of compressor 2 circuit 1 Reset compressor 2 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter Max operate hours of compressor 3 circuit 1 Reset compressor 3 circuit 1 hour counter	0 10 0 10 0 10 0	X1000h X1000h X1000h X1000h X1000h	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	99 1 99 1 1 99 1 1 99 1	2: WINLOAD 0: 1200 1: 2400 2: 4800 3: 9600 4: 19200 0: N 1: Y 0: N	D D		



	Reset:	Reset compressor 2 circuit 2 hour counter	0	 	0	1	0: N	D		
							1: Y			
Gfa05	Compressor 3 circuit 2 Thres.:	Max operate hours of compressor 3 circuit 2	10	X1000h	0	99		I		
	Reset:	Reset compressor 3 circuit 2 hour counter	0		0	1	0: N	D		_
							1: Y			
Gfa06	Compressor 1 circuit 3	Max operate hours of compressor 1 circuit 3	10	X1000h	0	99	-	I		
	Thres.: Reset:	Reset compressor 3 circuit 1 hour counter	0		0	1	0: N	D		
	Nesc.	incise compressor 3 circuit i modi codiner			Ö	·	1: Y			
	Compressor 2 circuit 3	Max operate hours of compressor 2 circuit 3	10	X1000h	0	99	-	ĺ	-	
	Thres.:	Dood company 2 sign it 7 hour country	0		0	,	0. N	D		<u> </u>
	Reset:	Reset compressor 2 circuit 3 hour counter	U		0	1	0: N 1: Y	U		
Gfa07	Compressor 3 circuit 3	Max operate hours of compressor 3 circuit 3	10	X1000h	0	99			– 1	
	Thres.:									
	Reset:	Reset compressor 3 circuit 3 hour counter	0		0	1	0: N	D		
Gfa08	Compressor 1 circuit 4	Max operate hours of compressor 1 circuit 4	10	X1000h	0	99	1: Y 			
Gidoo	Thres.:	inax operate nouts of compressor i circuit i	10	7(1000H	Ö	33				
	Reset:	Reset compressor 1 circuit 4 hour counter	0		0	1	0: N	D		
	Compressor 2 circuit 4	Max operate hours of compressor 2 circuit 4	10	X1000h	0	99	1: Y			
	Thres.:	iwax operate riours of compressor 2 circuit 4	10	X1000II	U	99				
	Reset:	Reset compressor 2 circuit 4 hour counter	0		0	1	0: N	D		
							1: Y			<u> </u>
Gfa09	Compressor 3 circuit 4 Thres.:	Max operate hours of compressor 3 circuit 4	10	X1000h	0	99		l		
	Reset:	Reset compressor 3 circuit 4 hour counter	0		0	1	0: N	D	!	
		·					1: Y			
Gfa10	Condenser fan group 1	Max operate hours of condenser fan 1	10	X1000h	0	99		l	-	
	Thres.: Reset:	Reset condenser fan 1 hour counter	0		0	1	0: N	D		
	Nesc.	incide condenser fair i flour counter			Ö	·	1: Y			
	Condenser fan group 2	Max operate hours of condenser fan 2	10	X1000h	0	99	-	ĺ	-	
	Thres.: Reset:	Reset condenser fan 2 hour counter	0		0	,	0: N	D		
	Reset.	Reset condenser ian 2 nour counter	U		U	1	0: N 1: Y	U		
Gfa11	Condenser pump 1	Max operate hours of condenser pump 1	10	X1000h	0	99		I		
	Thres.:									
	Reset:	Reset condenser pump 1 hour counter	0		0	1	0: N 1: Y	D		
	Condenser pump 2	Max operate hours of condenser pump 2	10	X1000h	0	99	I: Y 			
	Thres.:	into operate hours of condenser partip 2	10	7(1000II	Ö	33				
	Reset:	Reset condenser pump 2 hour counter	0		0	1	0: N	D		
Probe ad	liveten ant				-	-	1: Y			<u></u>
	Master probe adjust.	Probe 1 offset	0	L	-9,9	9,9		Α	1	
	B01:				-,-	-,-				
	Val:	Probe 1 value	0		-999,9	999,9	-	l		
	B02: Val:	Probe 2 offset Probe 2 value	0		-9,9 -999,9	9,9 999,9	-	A		
	B03:	Probe 3 offset	0		-9,9	9,9		A		
	Val:	Probe 3 value	0		-999,9	999,9		ì		
	B04:	Probe 4 offset	0		-9,9	9,9		A		
	Val:	Probe 4 value	0		-999,9	999,9		1		
	B05: Val:	Probe 5 offset Probe 5 value	0		-9,9 -999,9	9,9 999,9	_	A		
Gfb02	Master probe adjust.	Probe 6 offset	0		-9,9	9,9		A		
	B06:									
	Val:	Probe 6 value	0		-999,9	999,9				<u> </u>
	B07: Val:	Probe 7 offset Probe 7 value	0		-9,9 -999,9	9,9 999,9		A	E	
	B08:	Probe 8 offset	0		-9,9	9,9		A		
	Val:	Probe 8 value	_							
	B09:		0		-999,9	999,9				
		Probe 9 offset	0		-999,9 -9,9	999,9 9,9		I A	-	
	Val:	Probe 9 offset Probe 9 value	0		-999,9 -9,9 -999,9	999,9 9,9 999,9	 	I A I		
	Val: B10:	Probe 9 offset Probe 9 value Probe 10 offset	0 0 0 0 0	 	-999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9		I A I A		
	Val:	Probe 9 offset Probe 9 value	0 0 0 0 0		-999,9 -9,9 -999,9	999,9 9,9 999,9		I A I A I		
Gfb03	Val: B10: Val: Slave probe adjust. B01:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 value Probe 10 value Probe 1 offset of slave	0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9 999,9		I A I A I		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 value Probe 1 offset of slave Probe 1 value of slave	0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9		A A I A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 value Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave	0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9	999,9 9,9 999,9 9,9 999,9 9,9		I A I A I A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 value Probe 1 offset of slave Probe 1 value of slave	0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		I A I A I A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04: Val:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 value Probe 1 value Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 value of slave Probe 4 value of slave Probe 4 value of slave	0 0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		I A I A I A I		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B02: Val: B04: Val: B05:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 value Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 value of slave Probe 4 value of slave Probe 5 offset of slave Probe 5 offset of slave Probe 6 value of slave Probe 6 value of slave	0 0 0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -9,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		I A I A I A I A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04: Val: B04: Val: B05: Val:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 1 offset of slave Probe 1 offset of slave Probe 2 offset of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 value of slave Probe 4 offset of slave Probe 5 offset of slave	0 0 0 0 0 0 0 0 0 0 0		-999,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 9,9 9,9 9,9 9,9 9,9		I A I A I A A I A A I A A I A A I A A I A A I A A I A A I A A I A A I A A I A A I A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B02: Val: B04: Val: B05:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 value Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 value of slave Probe 4 value of slave Probe 5 offset of slave Probe 5 offset of slave Probe 6 value of slave Probe 6 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -9,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		I A I A I A I A A		
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Gfb03	Val: B10: Val: B10: Val: B01: Val: B02: Val: B02: Val: B04: Val: B05: Val: B05: Val: B06: Val: B07: Val: B07: Val: B08: Val: B07: Val: B08: Val: B10: Val:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 offset Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 offset of slave Probe 4 offset of slave Probe 5 value of slave Probe 5 offset of slave Probe 6 offset of slave Probe 6 offset of slave Probe 7 offset of slave Probe 8 offset of slave Probe 8 value of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		A		
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04: Val: B05: Val: Slave probe adjust. B05: Val: B07: Val: B08: Val: B07: Val: B07: Val: B07: Val: B08: Val: B08: Val: B08: Val: B10: S1 offset: -	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 value Probe 1 value of slave Probe 2 value of slave Probe 2 offset of slave Probe 4 offset of slave Probe 5 offset of slave Probe 5 value of slave Probe 6 value of slave Probe 6 value of slave Probe 7 value of slave Probe 7 value of slave Probe 8 value of slave Probe 8 value of slave Probe 7 offset of slave Probe 7 offset of slave Probe 8 value of slave Probe 8 value of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 value of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	barg	-999,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9,9 -9	999,9 9,9 999,9 9,9 9,9 9,9 9,9 9,9 9,9		A		
Gfb03	Val: B10: Val: B10: Val: B01: Val: B02: Val: B02: Val: B04: Val: B05: Val: B05: Val: B06: Val: B07: Val: B07: Val: B08: Val: B07: Val: B08: Val: B10: Val:	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 offset Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 offset of slave Probe 4 offset of slave Probe 5 value of slave Probe 5 offset of slave Probe 6 offset of slave Probe 6 offset of slave Probe 7 offset of slave Probe 8 offset of slave Probe 8 value of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9,9 -999,9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9 -9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		A		
Gfb03 Gfb04	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04: Val: B05: Val: Slave probe adjust. B05: Val: B07: Val: B08: Val: B07: Val: B07: Val: B07: Val: B08: Val: B08: Val: B08: Val: B10: S1 offset: -	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 value Probe 1 value of slave Probe 2 value of slave Probe 2 offset of slave Probe 4 offset of slave Probe 5 offset of slave Probe 5 value of slave Probe 6 value of slave Probe 6 value of slave Probe 7 value of slave Probe 7 value of slave Probe 8 value of slave Probe 8 value of slave Probe 7 offset of slave Probe 7 offset of slave Probe 8 value of slave Probe 8 value of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 value of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	barg Barg/pisg °C °F	-999,9 -9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 90,9 9				
Gfb03	Val: B10: Val: Slave probe adjust. B01: Val: B02: Val: B04: Val: B04: Val: B05: Val: Slave probe adjust. B06: Val: Slave probe adjust. B07: Val: B07: Val: B07: Val: B08: Val: B10: Val: Slave probe adjust. B08: Val: Slave probe adjust. B07: Val: B08: Val: B10: Val: Slave probe: Slave probe: Slave probe: Slave probe adjust. Sl	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 offset Probe 1 offset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 offset of slave Probe 5 value of slave Probe 6 value of slave Probe 6 value of slave Probe 7 offset of slave Probe 7 offset of slave Probe 8 value of slave Probe 8 value of slave Probe 10 offset of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 offset of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	barg Barg/pisg °C °F °C/°F	-999,9 -9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9		A	R R/W R	
Gfb03 Gfb04	Val: B10: Val: B10: Val: B01: Val: B01: Val: B02: Val: B02: Val: B04: Val: B05: Val: Slave probe adjust. B06: Val: B07: Val: B07: Val: B08: Val: B100: Val: B101: Val: B101: S1 offset: - S2 offset: -	Probe 9 offset Probe 9 value Probe 10 offset Probe 10 offset Probe 10 offset Probe 1 ofset of slave Probe 1 value of slave Probe 2 offset of slave Probe 2 value of slave Probe 4 offset of slave Probe 5 value of slave Probe 5 offset of slave Probe 6 offset of slave Probe 7 offset of slave Probe 8 offset of slave Probe 8 offset of slave Probe 9 value of slave Probe 10 offset of slave Probe 10 offset of slave Probe 10 value of slave Probe 10 offset of slave Probe 10 value of slave	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	barg Barg/pisg °C °F	-999,9 -9	999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 999,9 9,9 90,9 9		A	R	





	S3 offset: -			0	barg	-100.0	100.0	_	А	<u> </u>	<u> </u>
	S3 probe: -	S3 probe value		0	Barg/pisg	-290.0	2900.0	_	A	R	<u> </u>
	C	6. 17. 6. 6.		0	°C	-36.0	36.0		A	D 844	
	S4 offset: -	S4: calibration offset		0	°F °C/°F	-36.0 -76.0	36.0 392.0		A	R/W	-
	S4 probe: - Circuit 3	S4 probe value		0	pisg	-76.0	870.0		— A	K	₩
	S1 offset: -	S1: calibration offset		0	barg	-100.0	100.0	<u> </u>	- A	R/W	
	S1 probe: -	S1 probe value		0	Barg/pisg	-290.0	2900.0		A	R	_
Gfb07				0	°C	-36.0	36.0		A		_
	S2 offset: -	S2: calibration offset		0	°F	-36.0	36.0	-	A	R/W	
	S2 probe: -	S2 probe value		0	°C/°F	-290.0	2900.0	_	А	R	_
	Circuit 4			0	pisg	-870.0	870.0	-	А		
	S3 offset: -	S3: calibration offset		0	barg	-100.0	100.0	=	Α	R/W	
Gfb08	S3 probe: -	S3 probe value		0	Barg/pisg	-290.0	2900.0	-	A	R	<u>-</u>
GIDOO				0	°C	-36.0	36.0		A	1	
	S4 offset: -	S4: calibration offset		0	PF 05.00F	-36.0	36.0	-	A	R/W	
Th	S4 probe: -	S4 probe value		0	°C/°F	-76.0	392.0		A	R	ь_
Gfc01	regulation Cooling/Heating	Cool/Heat change delay time	60	c	n		999			R/W	1 50
dicor	Change cooling/heating delay:	cooyrical change delay time	00	3	O		555		ľ	19 **	50
	Enable cooling/heating digital input:	Enable cool/heat change by DIN	0	_	0		1	0: NO	D		+
				ļ.				1: YES			
Gfc02	Enable switch-off unit by display:	Enable switch-off unit by keyboard	0		1		1	0: NO	D	R/W	68
				ļ.				1: YES			
Gfc03	Regulation temperature probe:	Regulation temperature probe	0		0		1	0: INLET	D	R/W	69
								1: OUTLET			
Gfc04	Temperature regulation	Regulation type	0		0		2	0: PROPORTIONAL	l	R/W	51
	Reg.type:		Ì	1				1: PROP.+INT.			
	Carling T.D.	Carling Assistantian	<u> </u>				000	2: PID	<u></u>		,
	Cooling T.Der	Cooling derivative time	0	 	0		999	-	<u></u>	R/W	
	Cooling T.Int	Cooling integration time	300	 	U		999	 -	<u></u> -	R/W	
	Heating T.Der	Heating derivative time	700	 	U		999		<u></u> -	R/W	_
Gfc05	Heating T.Int	Heating integration time	300	 °C	0		999	<u></u>	_	R/W	55
UILUO	Temperature regulation Cooling mode	Cooling differential	Z	°F	0		60.0 108.0	E	— A		
	Differential:		٥	Г	U		100.0		А		
	Dead band:	Regulation dead band in positive mode	0	°C	0		60.0		A		
			0	°F	0		108.0		A		
Gfc06	Temperature regulation	Heating differential	4	°C	0		60.0		А		
	Heating mode		7	°F	0		108.0		А		
	Differential:		ــــــ								_
	Dead band:	Regulation dead band in negative mode	0	°C	0		60.0		A		
C(a=	h			۳F	0		108.0		A	$-\!\!\!\!+\!\!\!\!\!-$	4
Gfc07	Neutral zone NZ diff.:	Regulation of differential in neutral zone	2	°C	0		60.0		A		
		D 10 10 10 11 12 12 1	3	<u>۳</u>	0		108.0		A	$-\!\!\!\!+\!\!\!\!\!-$	-
	Activ.diff.:	Regulation differential for devices activation	9	°F	0		60.0 108.0	-	A		
	Deact.diff.:	Regulation differential for devices deactivation	16	°C	0		60.0	-	- A	$-\!\!\!+\!\!\!\!-$	—
	Deact.dill.:	Regulation differential for devices deactivation	7	°F	0		108.0	-	- A		
Gfc08	Neutral zone	Enable force require to 0 during NZ regulation when the regulation	0	Г	0		100.0	0: NO		R/W	70
GICOO	En.force off power:	temperature is lower a threshold	U		U			1: YES	—	IV VV	70
	Threshold force off compressor:	When regulation value pass this threshold power decreasae	0	°C	-99,9		99,9		A		
		immediately to 0	32	°F	-148.0		211,8		A	-	
Gfc09	Neutral zone	Minimum time for loading	120	s	0		9999	-		R/W	/ 56
	Load min.time:	<u> </u>									
	Load max.time:	Maximum time for loading	600	S	0		9999	-	I	R/W	57
Gfc10	Neutral zone	Minimum time for unloading	120	s	0		9999	-		R/W	58
	Unload min.time:								ľ		
	11 1 1 2	And the state of t							_		
Cf-11	Unload max.time:	Maximum time for unloading	600	S	0		9999			R/W	59
Gfc11	Setpoint limit cooling	Maximum time for unloading Setpoint minimum limit in cooling mode	600	s °C	0 -99.9		99.9		I A	R/W	59
Gfc11	Setpoint limit cooling Minimum:	Setpoint minimum limit in cooling mode	600	s °C °F	-147.8		99.9 211.8		I A A	R/W	59
Gfc11	Setpoint limit cooling		600 	s °C °F °C	-147.8 -99.9		99.9 211.8 99.9		I A A	R/W	/ 59
	Setpoint limit cooling Minimum: Maximum:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode	600	'	-147.8 -99.9 -147.8		99.9 211.8 99.9 211.8		Ι Α Α Α Α	R/W	
Gfc11	Setpoint limit cooling Minimum:	Setpoint minimum limit in cooling mode	600 	'	-147.8 -99.9 -147.8 -99.9		99.9 211.8 99.9 211.8 99.9		A A A A A	R/W	
	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode	600 	'	-147.8 -99.9 -147.8 -99.9 -147.8		99.9 211.8 99.9 211.8 99.9 211.8		A A A A A A	R/W	
	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode	600 	'	-147.8 -99.9 -147.8 -99.9		99.9 211.8 99.9 211.8 99.9		A A A A A A A A A A	R/W	/ 59
	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode	600 90	'	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9		99.9 211.8 99.9 211.8 99.9 211.8 99.9		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc12	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode	 90	'	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8		A A A A A A A A A A A A A A A A A A A		 / 60
Gfc12	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load	 90	'	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9		A A A A A A A A A A A A A A A A A A A	 R/W	 / 60 / 61
Gfc12	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time	 90	°°°	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9 -147.8 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9		A A A A A I I I I		 / 60 / 61 / 63
Gfc12	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download	90 30 10	°C °F S S S S S S S S S S S S S S S S S S	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9 -147.8 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9		A A A A A A A A A A A A A A A A A A A		 / 60 / 61 / 63
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold	 90	°C °F °C °F s s s barg psig	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9 -147.8 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9		A A A A A A A A A A A A A A A A A A A		 / 60 / 61 / 63
Gfc12	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time	90 30 10 2 29 5	°C °F °C °F °C °F s s s s s barg psig °C	-147.8 -99.9 -147.8 -99.9 -147.8 -99.9 -147.8 0 0 0 -999,9 -999,9 -999,9		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 999.9 999.9		A A A A A A A A A A A A A A A A A A A		 / 60 / 61 / 63
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Maxset.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation	90 30 10 2 29 5	°C °F °C °F S S S S S S S S S S S S S S S S S S	147.8 99.9 1147.8 99.9 1147.8 99.9 1147.8 0 0 0 0 1-999.9 1-999.9 999.9 999.9		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9 999.9 999.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W R/W	
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold	90 30 10 2 29 5	°C °F °C °F °C °F s s s s s barg psig °C	147.8 99.9 1147.8 99.9 1147.8 99.9 1147.8 0 0 0 0 0 999.9 999.9 1999.9 1147.8		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 999.9 999.9 999.9 211.8 99.9		A A A A A A A A A A A A A A A A A A A		
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Maxset.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint	90 30 10 2 29 5 41 25 77	°C °F °C °F S S S S S S S S S S S S S S S S S S	147.8 99.9 1147.8 99.9 1147.8 99.9 1147.8 0 0 0 0 1-999.9 1-999.9 999.9 999.9		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 999.9 999,9 999,9 99.9 211.8 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W	
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Maxset.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation	90 30 10 2 29 5 41 25	°C °F °C °F S S S S S S S S S S S S S S S S S S	147.8 99.9 1147.8 99.9 1147.8 99.9 1147.8 0 0 0 0 0 999.9 999.9 1999.9 1147.8		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 999.9 999.9 999.9 211.8 99.9		A A A A A A A A A A A A A A A A A A A	R/W R/W	
Gfc12 Gfc13 Gfc14	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Maxset.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint	90 30 10 2 29 5 41 25 77	°C °F °C °F °S S S S S S S S S S S S S S S S S S	147.8 99.9 1147.8 99.9 1147.8 99.9 1147.8 0 0 0 0 0 999.9 999.9 1999.9 1147.8		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9 999.9 211.8 999.9 211.8 60.0		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W	
Gfc12 Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential	90 30 10 2 29 5 41 25 77 10	°C °F °C °F °S S S S S S S S S S S S S S S S S S	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 -999.9 147.8 0 0 0 -999.9 147.8 99.9 147.8 0 0 0 0 0 0 0 147.8 147.		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 999.9 999.9 211.8 99.9 211.8 00.0 108.0		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W	
Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential	90 30 10 2 29 5 41 25 77 10 18	"C" "F" "C" "F" "S S S S S S S S S S S S S S S S S S S	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9 999.9 211.8 99.9 211.8 99.9 999.9		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W	
Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext. set.: Ext. diff.: Heating compensation Max.set.: Ext.set.: Ext.set.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint	90 30 10 2 29 5 41 25 77 10 18	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 147.8 99.9 147.8 0 0 0 147.8 99.9 147.8 0 0 0 0 0 147.8 99.9 147.8 0 0 0 0 0 0 147.8		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999.9 999.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc12 Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation Max.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation	900 330 10 22 29 5 41 25 77 110 18 5 23 0 0 32	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 99.9 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc12 Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation Max.set.: Ext.set.: Ext.set.: Ext.set.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external setpoint	90 330 10 2 2 29 5 41 25 77 77 10 118 	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999 999 999 999 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0 108.0 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc12 Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation Max.set: Ext.set: Ext.diff.: Ext.diff.: Ext.diff.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint	900 330 10 22 29 5 41 25 77 110 18 5 23 0 0 32	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 99.9 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc13 Gfc14 Gfc15 Gfc16	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.diff.: Ext.diff.: Ext.set.: Ext.diff.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external setpoint	90 330 10 2 2 29 5 41 25 77 77 10 118 	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999 999 999 999 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0 108.0 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc13 Gfc14 Gfc15 Gfc16	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation Max.set.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external differential Delay between evap.pump on and comp.on	900 330 10 22 29 5 41 25 77 110 18 5 23 0 0 32 10	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 99.9 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0 108.0 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W	
Gfc13 Gfc14 Gfc15 Gfc16	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Ext.diff.: Ext.set.: Ext.diff.: Ext.diff.: Evaporator pump Delay time between pump on and compressors on: Off delay time:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external differential Delay between evap.pump on and comp.on	90 330 10 2 2 29 5 41 25 77 77 10 18 	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999 999 999 999 999 211.8 99.9 211.8 99.9 211.8 99.9 211.8 00.0 108.0 99.9 211.8 99.9 211.8 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W	
Gfc13 Gfc14 Gfc15 Gfc16	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.: Heating compensation Max.set.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.: Ext.diff.: Ext.set.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external differential Delay between evap.pump on and comp.on	900 330 10 22 29 5 41 25 77 110 18 5 23 0 0 32 10	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 99.9 99.9 99.9 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 60.0 108.0 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W	
Gfc12 Gfc13 Gfc14 Gfc15	Setpoint limit cooling Minimum: Maximum: Setpoint limit heating Minimum: Maximum: Compressors Load up time: Load down time: Pump-Down Maximum time: End thr.: Cooling compensation Max.set.: Ext.set.: Ext.diff.:	Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Setpoint minimum limit in cooling mode Setpoint maximum limit in cooling mode Time between comp.load Time between comp.download Maximum pump down time Pump down end threshold Max.setpoint of cooling compensation Cool compensation external setpoint Cool compensation external differential Max.setpoint of heating compensation Heat compensation external setpoint Heat compensation external differential Delay between evap.pump on and comp.on	90 330 10 2 2 29 5 41 25 77 77 10 18 	or C or F or F	147.8 99.9 147.8 99.9 147.8 99.9 147.8 0 0 0 0 0 999.9 99.9 147.8 0 0 0 0 0 0 0 0 0 0 0 0 0		99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 211.8 99.9 999 999 999 999 999 211.8 99.9 211.8 99.9 211.8 99.9 211.8 00.0 108.0 99.9 211.8 99.9 211.8 99.9 211.8		A A A A A A A A A A A A A A A A A A A	R/W	



	L	i	i		1	i	1		
	Rotation time:		ــــــ					_	D 444
^	Overwork time:	Evap.pumps overwork time	5	S	0	999	0: UNIT ON		R/W R/W
0	Condenser pump Pump on if:	Pump on if	U		U	I	1: COMPRESSORS REQUIRED	┦	K/VV
	Off delay time:	Cond.pump off delay time	10	s	0	999	-	1	R/W
	Condenser pump water flow check	Cond.pumps flow alarm startup delay time	20	S	0	999		Ī	R/W
	Alarm delay from pump start-up:		ــــــ					╄	D 0.64
	Alarm running delay: Condenser pump Rotation time:	Cond.pumps flow alarm running delay time Cond.pumps rotation time	100	S	0	999 999	-	+	R/W R/W
	Overwork time:	Cond.pumps rotation time Cond.pumps overwork time	100	ll c	0	999		╬	R/W
	Condenser fan Chiller mode	Condenser fan setpoint in chiller mode	13	barg	0	99.9		Δ	R/W
	Setpoint:	Condenser fair sexpoint in chiller mode	188	psig	0	1448.6		A	-19 **
	·	Condenser fan setpoint for CH mode converted to temperature	13	°C	0	999,9		A	R
			55	°F	0	999,9		A	T
	Differential:	Condenser fan differential in chiller mode	3	barg	0	99.9		A	R/W
			43	psig	0	1448.6		A	1
		Condenser fan diffrential for CH mode converted to temperature	13	°C	0	999,9		A	R
			23	°F	0	999,9		A	
	Condenser fan Heat pump mode Setpoint:	Condenser fan setpoint in heatpump mode	13	barg	0	99.9		A	R/W
			188	psig	0	1448.6		A	
		Condenser fan setpoint for HP mode converted to temperature	13	°C	0	999,9		A	R
	marge and the		55	°F	0	999,9		A	
	Differential:	Condenser fan differential in heatpump mode	3	barg	0	99.9		A	R/W
			43	psig	0	1448.6	<u>-</u>	A	<u> </u>
		Condenser fan differential for HP mode converted to temperature	13	°C	0	999,9		A	-R
	Condenser fan	Condenser fans speed-up time	23 10	°F	0	999,9 99		A	R/W
	Speed up time:	condenser rans speed-up time	10	5	U	99		ľ	ry vv
	Start-up circuit force time:	Condenser fan force time at circuit start up	60	s	0	99		+-	R/W
	Condenser fan	Condenser fan minimum speed	3.5	V	0	99,9	1	A	R/W
	Minimum speed:		_L	<u>L</u>	<u> </u>		<u> </u>	1	Ι΄
	Maximum speed:	Condenser fan maximum speed	7.5	0/0	0	99,9		A	R/W
	Defrost	Defrost start setpoint	2	°C	-99.9	99.9	-	A	R/W
	Start setp.:		35	°F	-147.8	211.8	<u> </u>	A	<u> </u>
	End setp.:	Defrost end setpoint	28	°C	-99.9	99.9		A	R/W
			82	°F	-147.8	211.8	<u></u>	A	Ļ.
	Defrost	Defrost startup delay	1800	S	[1	9999	<u> -</u>	1	R/W
	Startup delay: s Minimum time:	Defrost minimum time		min	0	9999		+-	R/W
	Maximum time:	Defrost maximum time		min	1	999		╁	R/W
	Defrost	Interval time between 2 defrost procedure	0	min	0	999		+	R/W
	Interval time:	interval time between 2 denost procedure	U	111111	U	555		ľ	IQ VV
	Dripping time: s	Dripping time	30	s	0	999		\top	R/W
	Reverse circ.time at start-end defr.:	Reverse circuit time during start-end defrost	30	s	0	999		\top	Ė
	Low pressure alarm	Low pressure alarm threshold	1,5	barg	0	99.9	-	A	R/W
	Threshold:		21	psig	0	1448.6		A	
	Differential:	Low pressure alarm differential	0,5	barg	0	60.0		A	R/W
			7	psig	0	870.2	-	A	
	Low pressure alarm	Low pressure alarm startup delay	40	S	0	999		T	R/W
	Startup delay:		+		_				
	Running delay:	Low pressure alarm running delay	0	S	0	999	O. CERMANITOMATIC		R/W
	LP alarm reset type By pressostat:	LP by pressostat reset type			U	I	0: SEMIAUTOMATIC 1: MANUAL	- ^D	R/W
	By transducer:	LP by transducer reset type	_		0	1	0: SEMIAUTOMATIC	D	R/W
	by transducer.	Lr by liansudcer reset type	U		U		1: MANUAL	۳	iy vv
	High pressure alarm	High pressure alarm threshold	23	barg	0	99.9		A	R/W
	Threshold:	ingi pressure didiri diresticia	333	psig	0	1448.6		-f`	.,
	Differential:	High pressure alarm differential	2	barg	0	60.0		A	R/W
		0. 1					<u> </u>		.,
			29	psig	0	870.2		1	
	Circuit prevent	Prevent automatic increase time	29 10	psig s	0	870.2 999		_	R/W
	Circuit prevent Automatic increase time:	Prevent automatic increase time	10	S	0	999		I	
	Circuit prevent	Time period to check if the prevent number reach the maximum		psig s min	0				R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time:	Time period to check if the prevent number reach the maximum number of prevent condition happened	10	s min		999			R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent	Time period to check if the prevent number reach the maximum	10 60 20	s min barg		999 100 99.9		I I	
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold	10	min barg psig	0 0 0	999 100 99.9 1448.6		I I A	R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened	10 60 20 290 2	min barg psig barg		999 100 99.9 1448.6 60.0		I I A A	R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential	10 60 20	min barg psig	0 0 0	999 100 99.9 1448.6		I I A A	R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold	10 60 20 290 2	min barg psig barg	0 0 0	999 100 99.9 1448.6 60.0		A A	R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential	10 60 20 290 2	min barg psig barg	0 0 0	999 100 99.9 1448.6 60.0		A A	R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number	10 60 20 290 2	min barg psig barg	0 0 0	999 100 99.9 1448.6 60.0 870.2 5		A A A	R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold	10 60 20 290 2	min barg psig barg psig s	0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 99.9 1448.6		A A I	R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay	10 60 20 290 2 29 3 5 2 29 2	barg psig barg psig s barg psig psig barg	0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 370.2 5 999 999.9 1448.6 60.0		A A I I A A A A	R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential	10 60 20 290 2 29 3	min barg psig barg psig s barg	0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 99.9 1448.6		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold	10 60 20 290 2 29 3 5 2 29 2	barg psig barg psig s barg psig psig barg	0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 370.2 5 999 999.9 1448.6 60.0		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential	10 60 20 290 2 29 3 5 2 29 2	barg psig barg psig s barg psig psig barg	0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 99.9 1448.6 60.0 870.2 5		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential Low pressure prevent differential Low pressure prevent number Low pressure prevent delay	10 60 20 290 2 29 3 5 2 29 2	min barg psig barg psig s barg psig barg psig s barg psig barg psig barg psig barg s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5 999 99.9 1448.6 60.0 870.2 5		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential	10 60 20 290 2 29 3 5 2 29 2 29 3	barg psig barg psig s barg psig psig barg	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 370.2 5 99.9 1448.6 60.0 370.2 5 99.9 1448.6 60.0 370.2 5		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Autifreeze prevent Max prevent number: Max prevent n	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential Low pressure prevent number Low pressure prevent threshold	10 60 20 290 2 29 3 5 2 29 2	min barg psig barg psig s barg psig s s barg psig s orc orc	0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 99.9 1448.6 60.0 870.2 5		A A A A A A A A A	R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential Low pressure prevent differential Low pressure prevent number Low pressure prevent delay	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5		A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Autifreze prevent Max prevent number: Warning delay: Antifreze prevent Threshold: Differential:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent drifferential Low pressure prevent differential Low pressure prevent threshold Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential	10 60 20 290 2 29 3 5 2 29 2 29 3	min barg psig barg psig s barg psig s s barg psig s orc orc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 99.9 1448.6 60.0 870.2 5			R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Autifreeze prevent Max prevent number: Max prevent n	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent threshold Low pressure prevent differential Low pressure prevent number Low pressure prevent threshold	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5			R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Antifreeze prevent Threshold: Differential:	Time period to check if the prevent number reach the maximum number of prevent condition happened High pressure prevent threshold High pressure prevent differential High pressure prevent number High pressure prevent delay Low pressure prevent drifferential Low pressure prevent differential Low pressure prevent threshold Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5 999 1448.6 60.0 870.2 5		A	R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5		A A A A A A A A A A A A A A A A A A A	R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS		R/W R/W R/W R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig barg psig barg psig barg psig barg psig barg psig psig barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM	A A A A A A A A A A A A A A A A A A A	R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM 1: FORCE OFF COMPRESSORS	Ĭ	R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay: Low pressure prevent Max prevent number: Warning delay:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM 1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM	Ĭ	R/W R/W R/W R/W R/W R/W R/W R/W R/W R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay: EVO alarm action type Low super heat:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM 1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM 1: FORCE OFF COMPRESSORS	Ĭ	R/W
	Circuit prevent Automatic increase time: Count prevent number time: High pressure prevent Threshold: Differential: High pressure prevent Max prevent number: Warning delay: Low pressure prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Low pressure prevent Max prevent number: Warning delay: Antifreeze prevent Threshold: Differential: Antifreeze prevent Max prevent number: Warning delay: Antifreeze prevent Max prevent number: Warning delay: Low pressure prevent Max prevent number: Warning delay:	Time period to check if the prevent number reach the maximum number of prevent condition happened thigh pressure prevent threshold thigh pressure prevent differential thigh pressure prevent number thigh pressure prevent delay Low pressure prevent delay Low pressure prevent differential tow pressure prevent differential Low pressure prevent number Low pressure prevent threshold Antifreeze prevent threshold Antifreeze prevent differential Antifreeze prevent number	10 60 20 290 2 29 3 5 2 29 2 29 3 5 6 42 1	s min barg psig psig psig psig psig psig psig psi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	999 100 99.9 1448.6 60.0 870.2 5 99.9 1448.6 60.0 870.2 5 99.9 11.48.6 60.0 870.2 5 99.9 11.8 60.0 108 5	1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM 1: FORCE OFF COMPRESSORS 0: SHOW ONLY MASK ALARM	Ĭ	R/W





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Gfc44	Chiller mode						1. TORCE OT COMPRESSORS	1		<u> </u>
	Setpoint SH: -	EEV SuperHeating setpoint in Chiller mode EVD unit of measure	6.0		Low_SH_Thrshd_CH	99.9	0: -	A	R/W	68
		EVD unit of measure	ľ			2	0	╣	I.	
								1		
	LowSH thresh.: -	EEV low superheating threshold in Chiller mode EVD unit of measure	2.0		0.0	SH_Set_CH	0: -	_A	R/W	71
		EVD unit of measure	ľ		ľ	2	1: K	╣		
							2: °F	1		
	LOP thresh.: -	EEV Low evaporating temp. threshold in Chiller mode	-50.0		-60.0	MOP_Thrshd_CH		Α	R/W	74
		EVD unit of measure	ľ			2	0: 1: °C	╣	VV	
							2: °F	1		
	MOP thresh.: -	EEV High evaporating temp. threshold in Chiller mode	50.0		0.0	392.0		А	R/W	77
							0:	-	-	-
							1: °C	+	_	_
		EVD unit of measure	1		1	2	2: °F		W	1-
66.45	lu .					1				_
Gfc45	Heatpump mode Setpoint SH: -	EEV SuperHeating setpoint in HeatPump mode	8.0		Low_SH_Thrshd_HP	99.9		Δ	R/W	69
	sepont sti.	EVD unit of measure	1		1	2	0: -	†	R	
							1: K			
	LowSH thresh.: -	EEV Low SuperHeating threshold in HeatPump mode	2.0		-72.0	SH_Set_HP	2: °F		R/W	72
	LOWSFI UITESTI	EVD unit of measure	1		1	2	0: -	r	R	
							1: K	1		
	LODAL L	574				MOD TI I I III	2: °F	<u> </u>	D 0.44	
	LOP thresh.: -	EEV Low evaporating temp. threshold in HeatPump mode EVD unit of measure	-50.0 1		-60.0	MOP_Thrshd_HP	0:	A	R/W	75
		and of measure	ľ		ľ		1: °C	f	ľ	
				ļ	1		2: °F	1	<u></u>	1
	MOP thresh.: -	EEV High evaporating temp. threshold in HeatPump mode EVD unit of measure	50.0		0.0	392.0	0:	_A	R/W	78
		EVD drift of friedsure	ľ		ľ	2	0 1: °C	-	K	
							2: °F			
Gfc46	Defrost mode	EDIC III C. A. C. C. D. C. A. A.			L CUT LIBE			 	D.044	
	Setpoint SH: -	EEV SuperHeating setpoint in Defrost mode EVD unit of measure	12.0		Low_SH_Thrshd_DF	99.9	0: -	A I	R/W	70
		EVB diff. of measure	ľ		ľ	_	1: K	-		
							2: °F	1		
	LowSH thresh.: -	EEV Low SuperHeating threshold in Defrost mode	2.0		-72.0	SH_Set_DF	0: -	A	R/W	73
		EVD unit of measure	ľ			2	1: K	-	K	_
							2: °F	1		
	LOP thresh.: -	EEV Low evaporating temp. threshold in Defrost mode	-50.0		-60.0	MOP_Thrshd_DF		А	R/W	76
		EVD unit of measure	1		1	2	0: 1: °C	4	R	
							2: °F	-		
	MOP thresh.: -	EEV High evaporating temp. threshold in Defrost mode	50.0		0.0	392.0		A	R/W	79
Gfc47		EVD unit of measure	1		1	2	0: 0:00	<u> </u>	R	
GIC47			U		O		1: EVO n°	┩	IX.	
			0		0	99			R	
	Circuit 1	Twin valve A	0		0	1	0:	D	R	
	Hot gas bypass temp. setpoint: -	Temperature setpoint hot gas bypass - Valve A	10.0		-76.0	392.0	1: .a	A	R/W	_
	пос даз буразз теттр. эстропп.	EVD unit of measure	1		1	2	0:	÷	R	+-
							1: °C]		
Gfc48			0		0	1	2: °F 0:00	D	D	-
GIC40			U		O		1: EVO n°	┛	IX.	
			0	-	0	99			R	T
	Circuit 2	Twin valve B	0	<u> </u>	0	1	0:	D	R	
	Hot gas bypass temp. setpoint: -	Temperature setpoint hot gas bypass - Valve B	0		-76.0	392.0	1: .b	Α	R/W	-
		EVD unit of measure	1		1	2	0:	Ť	R	+
					1		1: °C]		
Gfc49			0	-	0	1	2: °F		D	+
UIL49			U		V		0: 1: EVO n°	٦	IV.	
			0	<u> </u>	0	99		上	R	E
	Circuit 1	Twin valve A	0	-	0	1	0:	D	R	
	Hot gas bypass press. setpoint : -	Setpoint pressure by-pass of hot gas	30.0	L	-290.0	2900.0	1: .a 	Δ	R/W	+
	oc Bas offass bicss. scrbollit	Setpoint pressure by-pass of not gas Setpoint pressure by-pass of hot gas	30.0		-290.0	2900.0		A	R/W	+
		EVD unit of measure	1		1	2	0:	1	R	-
					1		1: barg	4		
Gfc50			0	<u> </u>	0	1	2: psig 0:	D	R	+
				L	<u> </u>		1: EVO n°	1	L	1
			0		0	99			R	<u> </u>
			ΙΛ		0	1	0: 1: .b	_D	R	
	Circuit 2	Twin valve B	U							1
			0		-290.0	2900.0		A	R/W	
	Circuit 2 Hot gas bypass press. setpoint : -	Twin valve B Setpoint bypass hot gas pressure - Valve B Setpoint bypass hot gas pressure - Valve B	0		-290.0 -290.0	2900.0 2900.0		A A	R/W R/W	<u> </u>
		Setpoint bypass hot gas pressure - Valve B	0 0 1				 0:	A A I		=======================================
		Setpoint bypass hot gas pressure - Valve B Setpoint bypass hot gas pressure - Valve B	0 0 1				 0: 1: barg	A A I		
Gfc51		Setpoint bypass hot gas pressure - Valve B Setpoint bypass hot gas pressure - Valve B	0 0 1				 0:	A A I D		



	 	1	О	L.	h	99	i i	I p	L.
	Circuit 1	Twin valve A	0		0	1	0: D	R	=
			-				1: .a		
	EPR pressure setpoint: -	Pressure setpoint EPR - Valve A	35.0		-290.0	2900.0	A	R/W	
		Pressure setpoint EPR - Valve A	35.0		-290.0	2900.0	A	R/W	
		EVD unit of measure	I		I	2	0: 1: barg	K	
							2: psig		
Gfc52			0		0	1	0: D	R	
							1: EVO n°		
	Circuit 2	Turin right in D	0	-	0	99	0.	R	
	Circuit 2	Twin valve B	U		U	I	0: 1: .b	K	
	EPR pressure setpoint: -	Pressure setpoint EPR - Valve B	0		-290.0	2900.0	A	R/W	
		Pressure setpoint EPR - Valve B	0		-290.0	2900.0	A	R/W	
		EVD unit of measure	1		1	2	0:	R	
							1: barg		
Gfc53			0		0	1	2: psig 0: D	R	
0.05						•	1: EVO n°	ľ	
			0	-	0	99		R	
	Circuit 1	Twin valve A	0		0	1	0: D	R	
	CO2 setpoint: -	Pressure setpoint for CO2 gas cooler - Valve A	0		-290.0	2900.0	1:.a	R/W	+
	CO2 Setpoint	Pressure setpoint for CO2 gas cooler - Valve A	0		-290.0	2900.0	A	R/W	
		EVD unit of measure	1		1	2	0:	R	
							1: barg		
- Cr							2: psig		Щ.
Gfc54			0	-	0	1	0: D 1: EVO n°	R	-
			0		0	99	I. LVO II	R	+-
	Circuit 2	Twin valve B	0	-	0	1	0: D	R	+
							1: .b		
	CO2 setpoint: -	Pressure setpoint for CO2 gas cooler - Valve B	0		-290.0	2900.0	A	R/W	ـــــــ
		Pressure setpoint for CO2 gas cooler - Valve B	0		-290.0	2900.0	A	R/W	
		EVD unit of measure	I		I	2	0: 1: barg	K	
							2: psig		
		MOP: thresold high evaporation temperature Valve B	0		A52_LOP_THRESHOLD	392.0	A	R/W	_
		EVD unit of measure	1	-	1	2	0:	R	
							1: barg		
Gfc55			0		0	1	2: psig 0: D	R	+
dico			U		U	•	1: EVO n°	IX.	
			0		0	99	ı	R	$\overline{}$
	Circuit 3	Twin valve A	0		0	1	0: D	R	
							1:.a		
	Hot gas bypass temp. setpoint: -	Temperature setpoint hot gas bypass - Valve A EVD unit of measure	10.0		-76.0 1	392.0	A 0:	R/W R	+-
		EVD unit of measure	1			2	1: barg	K	
							2: psig		
Gfc56			0		0	1	0:00 D	R	
							1: EVO n°		
	Circuit 4	Tuin valve D	0		0	99	0: D	R	-
	Circuit 4	Twin valve B	0		U	1	1: .b	K	
	Hot gas bypass temp. setpoint: -	Temperature setpoint hot gas bypass - Valve B	0		-76.0	392.0	A	R/W	
		EVD unit of measure	1		1	2	0:	R	
			0		0	1	0:00 D	R	
							1: barg		
Gfc57			0		0	1	2: psig 0: D	R	
dicor			Ü		<u>o</u>	•	1: EVO n°		
			0		0	99		R	E
	Circuit 3	Twin valve A	0	-	0	1	0: D	R	- <u>-</u>
	Hot are humaer name antonists	Satpoint proceure by page of het are	70.0		200.0	2000.0	1: .a	D.04/	+
	Hot gas bypass press. setpoint : -	Setpoint pressure by-pass of hot gas Setpoint pressure by-pass of hot gas	30.0 30.0		-290.0 -290.0	2900.0 2900.0	A	R/W R/W	+
		EVD unit of measure	1	-	1	2	0: I	R	+
							1: barg		
							2: psig		
Gfc58			0	-	0	1	0: D	R	
			0		0	99	1: EVO n°	p	_
	Circuit 4	Twin valve B	0		0	1	0: D	R	+
			Ī				1: .b	ľ	
	Hot gas bypass press. setpoint : -	Setpoint bypass hot gas pressure - Valve B	0		-290.0	2900.0	A	R/W	E
		Setpoint bypass hot gas pressure - Valve B	0		-290.0	2900.0	A	R/W	<u></u>
		EVD unit of measure	1	<u> </u>	I I	2	0:	R	
							1: barg 2: psig		
Gfc59			0		0	1	0: D	R	+
			<u> </u>	<u> </u>			1: EVO n°		
			0		0	99		R	E
	Circuit 3	Twin valve A	0	-	0	1	0: D	R	
	EDD proceure corpoint:	Pressure setpoint EPR - Valve A	75.0	1	200.0	2000.0	1: .a	D/M/	+
	EPR pressure setpoint: -	Pressure setpoint EPR - Valve A Pressure setpoint EPR - Valve A	35.0 35.0		-290.0 -290.0	2900.0 2900.0	A Δ	R/W R/W	
		EVD unit of measure	1	-	1	2	0:	R	+
							1: barg		
							2: psig		
Gfc60		1	0	-	0	1	0: D	R	<u> </u>



		1	i	ı	i	1	I. D/O 9		1	1
			0		0	99	1: EVO n°		D	₩
	Circuit 4	Twin valve B	0		0	1	0: 1: .b	D	R	
	EPR pressure setpoint: -	Pressure setpoint EPR - Valve B	0		-290.0	2900.0		A	R/W	=
		Pressure setpoint EPR - Valve B	0		-290.0	2900.0		A	R/W	
		EVD unit of measure	1		1	2	0: 1: barg 2: psig		R	
Gfc61			0		0	1	0: 1: EVO n°	D	R	
			0		0	99	-	l	R	
	Circuit 3	Twin valve A	0		0	1	0: 1: .a	D	R	
	CO2 setpoint: -	Pressure setpoint for CO2 gas cooler - Valve A	0		-290.0	2900.0		A	R/W	_
	·	Pressure setpoint for CO2 gas cooler - Valve A	0		-290.0	2900.0		Α	R/W	
		EVD unit of measure	1		1	2	0:	1	R	
							1: barg 2: psig	-		
Gfc62			0		0	1	0: 1: EVO n°	D	R	
			0		0	99		l	R	
	Circuit 4	Twin valve B	0		0	1	0: 1: .b	D	R	
	CO2 setpoint: -	Pressure setpoint for CO2 gas cooler - Valve B	0		-290.0	2900.0		A	R/W	
		Pressure setpoint for CO2 gas cooler - Valve B	0	-	-290.0	2900.0		Α	R/W	
		EVD unit of measure	1		1	2	0:	l	R	-
							1: barg	1		
User DF\	//Change PW1	1		1	I	1	2: psig	1	<u> </u>	Щ.
Gfd01	Insert new service password (PW1):	New service password	1234		0	9999	_	ı	-	F
Gfd02	Delete data logger:	Erase history alarm data logger	NO		0	1	0: NO	D	-	F
Gfd03	Load unit configurations	Load the unit configuration caused by an extra design	NO	-	0	1	1: YES	D	<u> </u>	₩.
GTdU3	Load unit configuration:	Load the unit configuration saved by manufacturer	NO	-	0	ľ	0: NO 1: YES	U		
	Last saving	Last saving date: Day	_	day	0	31		l	-	\vdash
	-	Last saving date: Month		month	0	12		l	-	E
	1	Last saving date: Year		year	0	99		l		<u> </u>
Gg01	nanagement Defrost:	Force defrost procedure	h	L	ln .	Ti .	0: NO	n	L	匸
agoi	Deliosi.	roice deliosi procedure	ľ		O	ľ	1: YES	1		
Gg02	Disable compressors	Disable comp.1 circ.1 by user	0		0	1	0: NO	D		-
	Comp.1 circ.1:					1	1: YES			<u> </u>
	Comp.2 circ.1:	Disable comp.2 circ.1 by user	0		0	1	0: NO 1: YES	D		
	Comp.3 circ.1:	Disable comp.3 circ.1 by user	0		0	1	0: NO 1: YES	D		F
Gg03	Disable compressors	Disable comp.1 circ.2 by user	0	_	0	1	0: NO	D	-	\vdash
-0	Comp.1 circ.2:	, , , , , , , , , , , , , , , , , , , ,					1: YES			
	Comp.2 circ.2:	Disable comp.2 circ.2 by user	0		0	1	0: NO	D		-
	Comp.3 circ.2:	Disable comp.3 circ.2 by user	0		0	1	1: YES 0: NO	D		\vdash
	comp.5 circ.z.	Disable comp.5 circ.2 by user	Ü		O	ľ	1: YES	1		
Gg04	Disable compressors	Disable comp.1 circ.3 by user	0	-	0	1	0: NO	D		F
	Comp.1 circ.3:	5: 11					1: YES			₩.
	Comp.2 circ.3:	Disable comp.2 circ.3 by user	0		0	1	0: NO 1: YES	D		-
	Comp.3 circ.3:	Disable comp.3 circ.3 by user	0	_	0	1	0: NO	D	-	\vdash
	•	. ,					1: YES			
Gg05	Disable compressors	Disable comp.1 circ.4 by user	0	-	0	1	0: NO	D	F	F -
	Comp.1 circ.4: Comp.2 circ.4:	Disable comp.2 circ.4 by user	0		0	1	1: YES 0: NO	D		\vdash
	сотря спол.	ызын сыпр. спс.т иу изст	J		ľ	[1: YES	ľ		1
	Comp.3 circ.4:	Disable comp.3 circ.4 by user	0	-	0	1	0: NO	D		F
	har 1:				<u> </u>		1: YES		<u> </u>	₩.
Gg06	Work in manual mode Comp.1 circ.1:	Enable comp.1 circ.1 works in manual mode	0	-	U		0: NO 1: YES	υ		<u> </u>
	Comp.2 circ.1:	Enable comp.2 circ.1 works in manual mode	0	+	0	1	0: NO	D	<u> </u>	\vdash
		·		<u> </u>			1: YES	L	<u>L</u>	
	Comp.3 circ.1:	Enable comp.3 circ.1 works in manual mode	0	-	0	1	0: NO	D	F	F
	Liq.sol.circ.1:	Liquid solenoid valve circ.1 works in manual mode	0	<u>L</u>	0	1	1: YES 0: NO	n		\vdash
	EIQ.301.CITC.1.	Elquia soletiola vaive circ. I WOIRS III HIdHAII MODE	٢		Ĭ	ľ	1: YES	٢		
Gg07	Work in manual mode	Enable comp.1 circ.2 works in manual mode	0	-	0	1	0: NO	D	-	F
	Comp.1 circ.2:		_		1		1: YES	<u> </u>		₩
	Comp.2 circ.2:	Enable comp.2 circ.2 works in manual mode	0	-	U		0: NO 1: YES	υ	_	
	Comp.3 circ.2:	Enable comp.3 circ.2 works in manual mode	0		0	1	0: NO	D	_	\vdash
		·					1: YES	1		
	Liq.sol.circ.2:	Liquid solenoid valve circ.2 works in manual mode	0	F	0	1	0: NO	D	F	F -
Gg08	Work in manual mode	Enable comp.1 circ.3 works in manual mode	0	<u> </u>	0	1	1: YES 0: NO	D		\vdash
aguo	Comp.1 circ.3:	Enable comp.r area works in manual mode	ľ		ľ	[1: YES	ľ		1
	Comp.2 circ.3:	Enable comp.2 circ.3 works in manual mode	0		0	1	0: NO	D		F
	Company design	Fight come 7 do 7 to 1 do 1					1: YES			₩.
	Comp.3 circ.3:	Enable comp.3 circ.3 works in manual mode	0	<u> </u>	U	[0: NO 1: YES	υ	_	_
	Liq.sol.circ.3:	Liquid solenoid valve circ.3 works in manual mode	0	-	0	1	0: NO	D	-	\vdash
		·			<u> </u>		1: YES	1	L	
Gg09	Work in manual mode	Enable comp.1 circ.4 works in manual mode	0		0	1	0: NO	D		-
	Comp.1 circ.4:	Enable comp 2 circ 4 works in manual reads	0		0	1	1: YES	D	-	₩.
	Comp.2 circ.4:	Enable comp.2 circ.4 works in manual mode	U	<u> </u>	lη	Ti .	0: NO	υ	_	<u> </u>



	1	1	1	1	1	1	1: YES	1	1	1
	Comp.3 circ.4:	Enable comp.3 circ.4 works in manual mode	0		0	1	0: NO	D		_
							1: YES			
	Liq.sol.circ.4:	Liquid solenoid valve circ.4 works in manual mode	0		0	1	0: NO	D		—
	· .	'					1: YES			
Gg10	Work in manual mode	Evaporator pump1 works in manual mode	0		0	1	0: NO	D		—
	Evaporator pump1:						1: YES			
	Evaporator pump2:	Evaporator pump2 works in manual mode	0		0	1	0: NO	D	T	T
							1: YES			
Gg11	Work in manual mode Condensing pump1:	Condensing pump1 works in manual mode	0		0	1	0: NO	D		T-
							1: YES			
	Condensing pump2:	Condensing pump2 works in manual mode	0		0	1	0: NO	D		T
							1: YES			
Gg12	Work in manual mode	4way valve circ.1 works in manual mode	0		0	1	0: NO	D		
	4way valve circ.1:						1: YES			
	4way valve circ.2:	4way valve circ.2 works in manual mode	0		0	1	0: NO	D	-	
							1: YES			
Gg13	Work in manual mode	4way valve circ.3 works in manual mode	0		0	1	0: NO	D		-
	4way valve circ.3:						1: YES			
	4way valve circ.4:	4way valve circ.4 works in manual mode	0		0	1	0: NO	D		
							1: YES			
Gg14	Work in manual mode Condenser fan 1:		0	0/0	0	100		I		-
	Condenser fan 2:		0	%	0	100		Į.		T
Gg15	Work in manual mode	Antifreeze heater works in manual mode	0		0	1	0: NO	D		T
	Antifreeze heater:						1: YES			
	Circuit 1						0:			
	Circuit	Twin valve A	0		0	1	1: .a	D	R	
Gg16							0: NO			
	Enable manual valve position:		0		0	1	1: YES	D	R/W	
	Manual valve position:	Manual valve position - Valve A	0		0	9999		Į.	R/W	
	Circuit 2						0:			
		Twin valve B	0		0	1	1: .b	D	R	
Gg17	L						0: NO			
	Enable manual valve position:		0		0	1	1: YES	D	R/W	上
	Manual valve position:	Manual valve position - Valve B	0		0	9999		l l	R/W	
	Circuit 3	L					0:			
		Twin valve A	0		0	1	1: .a	D	R	
Gg18	L						0: NO			
	Enable manual valve position:		0		0	1	1: YES	D	R/W	上
	Manual valve position:	Manual valve position - Valve A	0	-	0	9999			R/W	-
	Circuit 4				L	l.	0:			
		Twin valve B	0		U	1	1: .b	D	R	#
Gg19	L				L		0: NO			
	Enable manual valve position:	W 1 1 25 1/1 B	0		0	1	1: YES	D	R/W	#
	Manual valve position:	Manual valve position - Valve B	U		υ	9999		ļ ļ	R/W	上

Manufacturer

Nask ndex	Display description	Description	Default	UOM	Min	Max	Possible value descr.	Туре	Read Write	/ BMS inde
la01	Unit type:	Physical circuit type	0	-	0	1	0: AIR/WATER	D	R/W	56
	<i>"</i>	, , ,					1: WATER/WATER		1	
		Unit type	1		0	2	0: CHILLER ONLY	ı	R/W	1
							1: CHILLER/HEATPUMP			
							2: HEATPUMP ONLY			
	EVD EVO	Enable EVD EVO	0		0	1	0: NO	D	R/W	
							1: YES			
a02	Reverse cycle type:	Reverse cycle type	0		0	1	0: WATER	D	R/W	57
		, ,					1: GAS			
	Refrigerant type:	Refrigerant type	4		0	13	0: R22	i	R/W	2
	1 "						1: R134a			
							2: R404a			
							3: R407c			
							4: R410a			
							5: R507			
							6: R290			
							7: R600			
							8: R600a			
							9: R717			
							10: R744			
							11: R728			
							12: R1270			
							13: R417a			
a03	Circuit number:	Circuit number	1		1	4		i	R/W	3
	Compressor number per circuit:	Compressor number per circuit	2		1	3		Ì	R/W	4
104	Evaporator number:	Evaporator number	1		1	4		ı	R/W	5
	Condensation type:	Condensing type (show if not possible to set the condensation	0		0	1	0: Single	D	R/W	58
	**	type)					1: Separated			
		Condensing type (show if possible to set the condensation type)	0		0	1	0: SINGLE	D	R/W	58
							1: SEPARATED			
105	Devices rotation type:	Type of rotation	1		1	4	0:	ı	R/W	6
		"					1: FIFO			
							2: LIFO			
							3: TIME			
							4: CUSTOM			
	Equalized circuits power:	Sequence activation compressors:	0		0	1	0: PACKED	D	R/W	59
	,						1: EQUALIZED		,	
106	Device power different size:	Enable different size power devices	0		0	1	0: NO	D	_	
							1: YES			
	Device unload sequence:	Sequence of load unloader	0		1	2	0:		R/W	7
							1: CCpppppp		.,.,	ſ
			1	1	1	ı	2: СрррСррр		1	1



Ha07	Pump-Down type:	PumpDown type	0	 0	3	0: DISABLE 1: AT COMP.POWER OFF 2: AT COMP.POWER ON 3: AT COMP.POWER ON-OFF	- - - -	R/W	8
Ha08	Evaporator pumps Number of pumps:	Number of evaporator pump	1	1	2		l	R/W	9
	Warnings limit max for flow lack:	Warnings limit evaporator pump	5	 0	5		I	R/W	10
Ha09	Evaporator pumps Enable antiblock:	Enable antiblock evaporator pump	0	 0	1	0: NO 1: YES	D	R/W	60
Ha10	Condenser pumps Number of pumps:	Number of condensator pump	1	 1	2	-	l	R/W	11
	Warnings limit max for flow lack:	Warnings limit condensator pump	5	 0	5		I	R/W	12
Ha11	Condenser pumps Enable antiblock:	Enable antiblock condensator pump	0	 0	1	0: NO 1: YES	D	R/W	61
Ha12	Defrost type:	Defrost type	0	 0	1	0: SEPARATED 1: SIMULTANEOUS	D	R/W	62
Ha13	Enable compensat.:	Enable setpoint compensation	0	 0	1	0: NO 1: YES	D	R/W	63
	Conv. Press->Temp.:	Dew/Bubble point selection	0	 0	1	0: DEW POINT 1: BUBBLE POINT	D		
Ha14	Press ENTER to configure EVD EVO driver	Press ENTER to goto EVD EVO configuration menu		 		 1: Enabled			

sk ex	Display description	Description	Default	UOM	Min	Max	Possible value descr.	Туре	Read Write	
	EVO_CONFIG							-	1	Ť
01			0		0	1	0:	D	R	T-
							1: EVO n°			
			0		0	99		1	R	-
	Valve:	Valve type - Valve A	1		1	18	0: USER DEFINED		R/W	-
							1: CAREL EXV			
							2: ALCO EX4			
							3: ALCO EX5			
							4: ALCO EX6			
							5: ALCO EX7			
							6: ALCO EX8 330HZ CAREL RECOMMEND			
							7: ALCO EX8 500HZ ALCO SPECIFICATION	l		
							8: SPORLAN SEI 0.5-11			
							9: SPORLAN SER 1.5-20			
							10: SPORLAN SEI 30			
							11: SPORLAN SEI 50			
							12: SPORLAN SEH 100			
							13: SPORLAN SEH 175			
							14: Danfoss ETS 12.5 - 25B			
							15: DANFOSS ETS 50B			
							16: DANFOSS ETS 100B			
							17: DANFOSS ETS 250			
							18: DANFOSS ETS 400			
							19: TWO CAREL EXV CONNECT. TOGETH	R		
							20: SPORLAN SER(I) G, J, K			
			0		0	1	0:	D	R	
				1			1: EVO n°			
			0		0	99			R	
			0	-	0	Į.	0: Valve:	D	K	
							1: Valve A:			
		Valve type - Valve A	1	-	1	18	0: USER DEFINED	!	R/W	
							1: CAREL EXV			
							2: ALCO EX4			
							3: ALCO EX5			
							4: ALCO EX6			
							5: ALCO EX7	FD.		
							6: ALCO EX8 330HZ CAREL RECOMMEND			
							7: ALCO EX8 500HZ ALCO SPECIFICATION	1		
							8: SPORLAN SEI 0.5-11			
							9: SPORLAN SER 1.5-20			
							10: SPORLAN SEI 30			
							11: SPORLAN SEI 50	_		
							12: SPORLAN SEH 100	_		
							13: SPORLAN SEH 175	_		
							14: Danfoss ETS 12.5 - 25B	_		
							15: DANFOSS ETS 50B 16: DANFOSS ETS 100B	_		
							17: DANFOSS ETS 250	_		
								_		
							18: DANFOSS ETS 400	'n		
							19: TWO CAREL EXV CONNECT. TOGETH 20: SPORLAN SER(I) G, J, K	:K		
			0	+	0	1	20. SPORLAIN SER(I) G, J, K	D	R	
			U		U	ļ.	0 1: Valve B:		K	
			0	+	0	1	0:	D	R	
			ľ	1	ľ	ľ	0 1: Valve B:		11	
		Valve type - Valve B	n	-	0	18	0: USER DEFINED		R/W	
		Tante type valve b	ľ	1	Ĭ	10	1: CAREL EXV	'	., , , ,	
				1			2: ALCO EX4			
				1			3: ALCO EX5			
				1			4: ALCO EX6			
				1			5: ALCO EX7			
				1			6: ALCO EX7 6: ALCO EX8 330HZ CAREL RECOMMEND	ED		
				1			6: ALCO EX8 330HZ CAREL RECOMMEND 7: ALCO EX8 500HZ ALCO SPECIFICATION			
				1						
				1			8: SPORLAN SEI 0.5-11	_		
				1			9: SPORLAN SER 1.5-20 10: SPORLAN SEI 30	_		
	1	1	1	1	1		HU: SPURLAN SELSO	1		

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9: AC OR CHILLER WITH VAR. COOLING

10: AC OR CHILLER PERTURBATED UNIT 11: EPR BACK PRESSURE 12: HOT GAS BY-PASS BY PRESSURE 13: HOT GAS BY-PASS BY TEMPERATURE

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Alarm min.: - S3 pressure: minimum alarm thresold -1 - 290.0 A88_S3_ALARM_THRESHOLD_HIGH - A R/W 53 pressure: minimum alarm thresold -1 - 290.0 A88_S3_ALARM_THRESHOLD_HIGH - A R/W EVD unit of measure 1 - 1 2 0: 1: barg 1: barg 2: psig - A R/W A R/W Alarm max.: - S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 2900.0 A R/W S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 999.9 A R/W EVD unit of measure 1 1 2 0: 1 R	Haa07	Probe S3 Alarm: Type: Wait Min.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value S3 Pressure: maximum value	0 0 0 0 0 0 -1 -1 1		0 0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN	2 1 99 1 3 3 31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0	1: °C 2: °F 0 1: EVO n° 0: 1: .b 0: DIS. 1: EN. 0: RAZ 0-5V 1: 4-20mA 2: 4-20mA REMOTE 3: 4-20mA EXTERNAL 0: 1: barg 2: psig	l D	R/W R/W R/W R	
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Alarm max:- S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 2900.0 A R/W S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 999.9 A R/W EVD unit of measure 1 1 2 0: 1 R	Haa07	Probe S3 Alarm: Type: Wait Min.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH	1: °C 2: °F 0 1: EVO n° 0: 1: .b 0: DIS. 1: EN. 0: RAZ 0-5V 1: 4-20mA 2: 4-20mA EMOTE 3: 4-20mA EXTERNAL 0: 1: barg 2: psig 0: 1: barg 2: psig 0: 1: barg 2: psig	I D D I A A A A A I I	R/W R/W R/W R R/W R/W R/W	
OW S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 999.9 A R/W OW EVD unit of measure 1 1 2 0: I R	Haa07	Probe S3 Alarm: Type: Wait Min.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH	1: °C 2: °F 0 1: EVO n° 1: .b O: DIS. 1: EN. 0: RAZ 0-5V 1: 4-20mA 2: 4-20mA EXTERNAL 1: .b barg 2: psig 1: barg 2: psig 1: barg 2: psig 1: barg 2: psig 1: barg	I D D I A A A A A I I	R/W R/W R/W R R/W R/W R/W	
S3 pressure: maximum alarm thresold 9.3 A40_S3_ALARM_THRESHOLD_L 999.9 A R/W EVD unit of measure 1 1 2 0: JI R	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure	105 1 0 0 0 0 0 0 0 1 -1 -1 1 9.3 9.3 1		0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN A33_S3_PROBE_RANGE_MIN 1 -290.0 -290.0	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2	1: °C 2: °F 0 1: EVO n°	I	R/W R/W R/W R R R/W R/W R	
OW EVD unit of measure 1 1 2 0: I R	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure	105 1 0 0 0 0 0 0 0 1 -1 -1 1 9.3 9.3 1		0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN A33_S3_PROBE_RANGE_MIN 1 -290.0 -290.0 1 A40_S3_ALARM_THRESHOLD_L	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2	1: °C 2: °F 0 1: EVO n°	I	R/W R/W R/W R R R/W R/W R	
EVD unit of measure 1 1 2 0: 1 R	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2 2900.0	1: °C 2: °F 0 1: EVO n° 0: 1: .b 0: DIS. 1: EN. 0: RAZ 0-5V 1: 4-20mA 2: 4-20mA REMOTE 3: 4-20mA EXTERNAL 0: 1: barg 2: psig 0: 1: barg 2: psig 0: 1: barg 2: psig	D	R/W R/W R/W R R/W R/W R/W R/W	
	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN A33_S3_PROBE_RANGE_MIN 1 -290.0 -290.0 1 A40_S3_ALARM_THRESHOLD_L OW A40_S3_ALARM_THRESHOLD_L	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2 2900.0	1: °C 2: °F 0 1: EVO n° 0: 1: .b 0: DIS. 1: EN. 0: RAZ 0-5V 1: 4-20mA 2: 4-20mA REMOTE 3: 4-20mA EXTERNAL 0: 1: barg 2: psig 0: 1: barg 2: psig 0: 1: barg 2: psig	D	R/W R/W R/W R R/W R/W R/W R/W	
	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold EVD unit of measure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN A33_S3_PROBE_RANGE_MIN 1 -290.0 -290.0 1 A40_S3_ALARM_THRESHOLD_L OW A40_S3_ALARM_THRESHOLD_L	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2 2900.0	1: °C 2: °F 0 1: EVO n°	D	R/W R/W R/W R R/W R/W R R/W R/W	
	Haa07	Probe S3 Alarm: Type: Wait Min.: - Max.: -	S2 temperature: maximum value of alarm EVD unit of measure Twin valve B Reserved S3 pressure: minimum value S3 pressure: minimum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 Pressure: maximum value EVD unit of measure S3 pressure: minimum alarm thresold S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold EVD unit of measure S3 pressure: minimum alarm thresold EVD unit of measure	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 -290.0 -290.0 1 A32_S1_PROBE_RANGE_MIN A33_S3_PROBE_RANGE_MIN 1 -290.0 -290.0 1 A40_S3_ALARM_THRESHOLD_L OW A40_S3_ALARM_THRESHOLD_L	2 1 99 1 3 A31_S3_PROBE_RANGE_MAX A31_S3_PROBE_RANGE_MAX 2 2900.0 999.9 2 A38_S3_ALARM_THRESHOLD_HICH A38_S3_ALARM_THRESHOLD_HICH 2 2900.0	1: °C 2: °F 0 1: EVO n°	D	R/W R/W R/W R R/W R/W R R/W R/W	



	 I	I	ĺ	ı	1	1	D: peig	ĺ	1 1
Haa08			0	_	0	1	2: psig 0	D	R
							1: EVO n°		
		.	0		0	99	-	I	R
		Twin valve B	0	-	0	1	0	D	R ·
	Probe S4 Alarm:	Reserved	0		0	1	1: .b 0: DIS.	D	R/W
	11050 517441111.	Neserved				ľ	1: EN.		.,
	Туре:	Pressione S3: valore MASSIMO di allarme	0	-	0	2	0: CAREL NTC		R/W
							1: CAREL NTC-HT		
	A1 .	C.T			70.0	A SE CA ALADA TERRETORIO DE LUCIA	2: NTC SPKP**T0		0.047
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm	-50 -50	-		A45_S4_ALARM_THRESHOLD_HIGH A45_S4_ALARM_THRESHOLD_HIGH	-	A	R/W R/W
		EVD unit of measure	-5U 1		-76.0	PA45_54_ALAKIVI_TRESHULU_HIGH D	0:	A I	R R
		LVD unit of measure	"			_	0. 1: °C	ľ	ix.
							2: °F		
	Alarm max.:	S4 temperature: maximum value of alarm	105		A47_S4_ALARM_THRESHOLD_LOW		-	А	R/W
		S4 temperature: maximum value of alarm	105		A47_S4_ALARM_THRESHOLD_LOW	392.0		A	R/W
		EVD unit of measure	1		1	2	0:	ļ	R ·
							1: °C 2: °F		
Haa09			0	_	0	1	0	D	R
11000						ľ	1: EVO n°	ľ	
			0		0	99		ı	R
		Twin valve A	0		0	1	0	D	R
							1: .a		
			0	<u></u>	0	1	0: Relè configuration:	D	R
		Output rolay configuration	2	-	1	4	1: Valve A relè config.:	_	DAM
		Output relay configuration	ľ	Г	l l	Ť	0: 1: DISABLED	 	R/W
							2: ALARM RELAY	1	
							3: SOLENOID VALVE RELAY	1	
							4: VALVE + ALARM RELAY		
		Abilitazione del protocollo P-LAN	0	_	0	1	0:	D	R
		rismazione dei protocono r zi uv				ľ	1: DI2 configuration:	ĺ	
		Configuration DI2	0	-	1	3	0:		R/W
							1: DISABLED		
							2: VALVE REGULATION OPT. AFTER DEFROST		
Haa10			0	_	0	1	0:	D	R
							1: EVO n°	ĺ	
			0	-	0	99		I	R
		Twin valve B	0	-	0	1	0	D	R
							1: .b		
	Valve B relè config.:	Output relay configuration - Valve B	1	-	1	4	0:	l	R/W
							1: DISABLED		
							2: ALARM RELAY 3: SOLENOID VALVE RELAY		
							4: VALVE + ALARM RELAY		
Haa11			0	_	0	1	0;	D	R
							1: EVO n°		
			0	_	0	99		l	R ·
		Twin valve A	0	-	0	1	0	D	R
							1: .a		
			0	-	0	1	0: S1/S3 probe al.manag.:	D	R ·
		Probe S1: alarm management	7	-	1	4	1: S1 probe alarm manag.: 0: USER DEFINED		R/W
		Probe 31. alami management	3			4	1: NO ACTION	ľ	ry v v
							2: VALVE FORCED CLOSED		
							3: VALVE AT FIXED POS.		
							4: USE BACKUP S3		
			0	F	0	1	0: S2/S4 probe al.manag.:	D	R
		Duck a CO school or	-	1			1: S2 probe alarm manag.:	<u> </u>	D.444
		Probe S2: alarm management	3		I	4	0: USER DEFINED	ľ	R/W
							1: NO ACTION 2: VALVE FORCED CLOSED	1	
							3: VALVE AT FIXED POS.	1	
				L		<u> </u>	4: USE BACKUP S4	L	
Haa12			0		0	1	0:	D	R ·
			<u> </u>	ļ			1: EVO n°	<u> </u>	
		Trip rate D	0	-	0	99	0.	1	R ·
		Twin valve B	0	-	0]	0:	D	R ·
	S3 probe alarm manag.:	Probe S3: alarm Management	1	<u> </u>	1	3	1: .b 0:		R/W
	55 probe diami manag	robe 55. didini Management	ľ				1: NO ACTION	ľ	19 **
							2: VALVE FORCED CLOSED	1	
			<u> </u>	L			3: VALVE AT FIXED POSIT.	L	
	S4 probe alarm manag.:	Probe S4: alarm management	1	-	1	3	0:		R/W
							1: NO ACTION		
							2: VALVE FORCED CLOSED	-	
	i		0	_	0	1	3: VALVE AT FIXED POSIT. 0:	D	R
Haa13		İ	3		Ĭ	ľ	1: EVO n°	·	11
Haa13				+	0	99		ı	R
Haa13			0					. 	DAM
Haa13	Valve:	Valve type - Valve B	0	_	1	18	0: USER DEFINED	ll .	R/W
Haa13	Valve:	Valve type - Valve B	0	-	1	18	1: CAREL EXV		K/VV
Haa13	Valve:	Valve type - Valve B	1	-	1	18	1: CAREL EXV 2: ALCO EX4		K/VV
Haa13	Valve:	Valve type - Valve B	0	=	1	18	1: CAREL EXV 2: ALCO EX4 3: ALCO EX5	 	K/W
Haa13	Valve:	Valve type - Valve B	0		1	18	1: CAREL EXV 2: ALCO EX4 3: ALCO EX5 4: ALCO EX6		K/W
Haa13	Valve:	Valve type - Valve B	0		1	18	1: CAREL EXV 2: ALCO EX4 3: ALCO EX5		K/VV -

CAR	EL							Į	NG
							8: SPORLAN SEI 0.5-11 9: SPORLAN SER 1.5-20 10: SPORLAN SEI 30 11: SPORLAN SEI 50 12: SPORLAN SEI 50 13: SPORLAN SEI 175 14: Danfoss ETS 12.5 - 258		
Haa14			0		0	1	15: DANFOSS ETS 50B 16: DANFOSS ETS 100B 17: DANFOSS ETS 250 18: DANFOSS ETS 400 19: TWO CAREL EXV CONNECT. TOGETHER 20: SPORLAN SER(I) G, J, K 0: D	ŗ	3
Паа 14			0		0		1: EVO n°		,
			0	_	0	99 1	0: Valve: D	-	₹
		Valve type - Valve B	1			18	1: Valve A:	F	
			0		0	1	20: SPORLAN SER(I) G, J, K		,
							1: Valve B:		` _
			0	_	0	1	0: D 1: Valve B:	ŀ	₹
Haa15		Valve type - Valve B	0		0	18	D: USER DEFINED 1: CAREL EW 2: ALCO EV4 3: ALCO EV5 4: ALCO EX6 5: ALCO EX7 6: ALCO EX8 5: ALCO EX8 6:	?	
Hadis			0			, ho	1: EVO n°		`
	Main regulation:	Main regulation - Valve A Auxiliary Regulation (only for single driver)	0 1		1	99 18	IL O: USER DEFINED I : CENTRALIZED CABINET COLD ROOM 2: SELF CONTAINED CABINET COLD ROOM 3: PERTURBATED CABINET COLD ROOM 4: SUBCRITICAL CO2 CABINET/COLD ROOM 4: SUBCRITICAL CO2 CABINET/COLD ROOM 5: RAGAA CONDENSER FOR SUBCRITICAL CO2 6: AC OR CHILLER WITH PLATE EVAPORATOR 7: AC OR CHILLER WITH SHELL TUBE EVAPORATOR 9: AC OR CHILLER WITH BATTERY COIL EVAPOR. 9: AC OR CHILLER WITH VAR. COOLING CAPACITY 10: AC OR CHILLER PERTURBATED UNIT 11: FPR BACK PRESSURE 12: HOT GAS BY-PASS BY PRESSURE 13: HOT GAS BY-PASS BY TEMPERATURE 14: TRANSCRITICAL CO2 GAS COOLER 15: ANALOG POSITIONER (4-20mA) 16: ANALOG POSITIONER (4-20mA) 16: ANALOG POSITIONER (9-10V) 17: AC/CHILLER WITH ADAPT.REGULATION 18: AC/CHILLER WITH DIG. SCROLL COMPRESSOR 6: USER DEFINITO		? ?/W
	Auxiliary regulation:	Auxiliary Regulation (only for single driver)	1	F	1	4	0: USER DEFINED 1: DISABLED	F	₹/W
	<u> </u>	<u> </u>		I	<u>l</u>	<u> </u>	I. DISMOLED		



	 			1		I	2: HIGH CONDENSING TEMP. PROTECTION	l	İ	ĺ
							ON S3 3: MODULATING THERMOSTAT ON S4 PROBE			
							4: BACKUP PROBES ON S3 AND S4			
Haa16			0		0	1	0:	D	R	
			0		0	99	1: EVO n°		D	_
			0	_	0	1	0: Regulation:	D	R	
							1: Regulation valve A:			
		Main regulation - Valve A	1		1	18	0: USER DEFINED 1: CENTRALIZED CABINET COLD ROOM	I	R/W	
							2: SELF CONTAINED CABINETCOLD ROOM			
							3: PERTURBATED CABINET COLD ROOM			
							4: SUBCRITICAL CO2 CABINET/COLD ROOM			
							5: R404A CONDENSER FOR SUBCRITICAL CO2 6: AC OR CHILLER WITH PLATE EVAPORATOR			
							7: AC OR CHILLER WITH SHELL TUBE			
							EVAPORATOR			
							8: AC OR CHILLER WITH BATTERY COIL EVAPOR.			
							9: AC OR CHILLER WITH VAR. COOLING			
							CAPACITY 10: AC OR CHILLER PERTURBATED UNIT			
							11: EPR BACK PRESSURE			
							12: HOT GAS BY-PASS BY PRESSURE			
							13: HOT GAS BY-PASS BY TEMPERATURE 14: TRANSCRITICAL CO2 GAS COOLER			
							15: ANALOG POSITIONER (4-20mA)			
							16: ANALOG POSITIONER (0-10 V)			
							17: AC/CHILLER WITH ADAPT.REGULATION			
							18: AC/CHILLER WITH DIG. SCROLL COMPRESSOR			
			0		0	1	0:	D	R	
							1: Regulation valve B:			<u> </u>
		Main regulation - Valve B	0		0	18	0: USER DEFINED 1: CENTRALIZED CABINET COLD ROOM		R/W	
							2: SELF CONTAINED CABINETCOLD ROOM			
							3: PERTURBATED CABINET COLD ROOM			
							4: Subcritical CO2 Cabinet/Cold Room 5: R404A Condenser for Subcritical CO2			
							6: AC OR CHILLER WITH PLATE EVAPORATOR			
							7: AC OR CHILLER WITH SHELL TUBE			
							EVAPORATOR 8: AC OR CHILLER WITH BATTERY COIL EVAPOR.			
							9: AC OR CHILLER WITH BATTERY COIL EVAPOR.			
							CAPACITY			
							10: AC OR CHILLER PERTURBATED UNIT			
							11: EPR BACK PRESSURE 12: HOT GAS BY-PASS BY PRESSURE	ł		
							13: HOT GAS BY-PASS BY TEMPERATURE			
							14: TRANSCRITICAL CO2 GAS COOLER			
							15: Analog Positioner (4-20ma) 16: Analog Positioner (0-10 V)	ł		
							17: AC/CHILLER WITH ADAPT.REGULATION			
							18: AC/CHILLER WITH DIG. SCROLL			
Haa17			0		0	1	COMPRESSOR 0:	D	D	_
110017			U		U		1: EVO n°	D	IX.	
			0		0	99		l	R	
		Twin valve A	0		0	1	0:	D	R	
	Probe S1 Alarm:	Reserved	1		0	1	1: .a 0: DIS.	D	R/W	
	11056 51 7 1141111.	. teserved					1: EN.		. ,	
	Type: Wait		0		0	3	0: RAZ. 0-5V	I	R/W	-
							1: 4-20mA 2: 4-20mA REMOTE			
							3: 4-20mA REMOTE 3: 4-20mA EXTERNAL			
	Min.: -	S1 pressure: minimum value	-1	-	-290.0	A30_S1_PROBE_RANGE_MAX		Α	R/W	
		S1 pressure: minimum value EVD unit of measure	-1 1		-290.0 1	A30_S1_PROBE_RANGE_MAX	 0:	A ı	R/W R	-
		EVE WILL OF THEMSUIC	['		'		1: barg	ľ	11	
							2: psig			
	Max.: -	S1 Pressure: maximum value	9.3	-		2900.0		A	R/W	-
		S1 Pressure: maximum value EVD unit of measure	9.3 1		A32_S1_PROBE_RANGE_MIN 1	999.9 2	 0:	A	R/W R	
		,					1: barg			
							2: psig		_	<u> </u>
	Alarm min.: -	S1 pressure: minimum alarm thresold S1 pressure: minimum alarm thresold	-1 -1	_	-290.0 -290.0	A37_S1_ALARM_THRESHOLD_HIGH A37_S1_ALARM_THRESHOLD_HIGH	-	A A	R/W R/W	
		EVD unit of measure	1	-	1	2	0:	,,	R	<u> </u>
							1: barg			
	Alarm may:	C1 proceurs: maximum alassa theseald	0.7		AZO CI ALADAA TIJDECLIOLD LOVA	2000 0	2: psig	٨	D/M/	—
	Alarm max.: -	S1 pressure: maximum alarm thresold S1 pressure: maximum alarm thresold	9.3 9.3		A39_S1_ALARM_THRESHOLD_LOW A39_S1_ALARM_THRESHOLD_LOW			A A	R/W R/W	
		EVD unit of measure	1	-	1	2	0:		R	<u> </u>
							1: barg			
Haa18			0		0	1	2: psig	D	R	<u> </u>
Падіб			U		U	ľ	0 1: EVO n°	U	IV.	
			0	-	0	99			R	-
		Twin valve A	0	- <u> </u>	0	1	0:	D	R	
	Probe S2 Alarm:	Reserved	1		0	1	1: .a 0: DIS.	D	R/W	<u> </u>
	SSC SE / NOTH.		r .		i .	1"			F7 **	





							1: EN.		
	Type: Wait	Pressione S1: valore MASSIMO di allarme	0	-	0	3	0: NTC CAREL	_	R/W
							1: CAREL NTC-HT		
							2: NTC SPKP**T0		
							3: 0-10V EXT. SIGNAL		
	Alarm min.: -	S2 temperature: minimum value of alarm	-50	-	-76.0	A44_S2_ALARM_THRESHOLD_HIGH		Α	R/W
		S2 temperature: minimum value of alarm	-50		-76.0	A44_S2_ALARM_THRESHOLD_HIGH		A	R/W
			1	-	1		0.	<u> </u>	n
		EVD unit of measure		_	I	2	0: -	-‼	K
							1: °C		
							2: °F		
	Alarm max.: -	S2 temperature: maximum value of alarm	105		A46_S2_ALARM_THRESHOLD_LOW			A	R/W
		S2 temperature: maximum value of alarm	105		A46_S2_ALARM_THRESHOLD_LOW	392.0	_	Α	R/W
		EVD unit of measure	1		1	2	0: —	ı	R
							1: ℃		
							2: °F		
a19			0		0	1	0:	D	R
							1: EVO n°		
			0		0	99		1	R
		Twin valve B	0	_	0	1	0:	D.	D
		I WIII Valve D	U		o .		1: .b	-	IX.
	Dark CZ Alama	D1	0	_	2	•		D	DAM
	Probe S3 Alarm:	Reserved	U		U	l .	0: DIS.	U.	R/W
							1: EN.	<u> </u>	
	Type: Wait		0	-	0	3	0: RAZ. 0-5V	<u>l</u>	R/W
							1: 4-20mA		
							2: 4-20mA REMOTE		
							3: 4-20mA EXTERNAL		
	Min.: -	S3 pressure: minimum value	-1	_	-290.0	A31_S3_PROBE_RANGE_MAX	_	Α	R/W
		S3 pressure: minimum value	-1		-290.0	A31_S3_PROBE_RANGE_MAX	_	Α	R/W
		EVD unit of measure	1	L	1	2	0:	i	Ř
		and or measure	[Γ	1: barg	ť	Γ'
								-	
	Marris	C7 Drassurgs manifestory Lo-	0.7	+	AZO CI DDODE DANCE ANN	2000.0	2: psig		DAA.
	Max.: -	S3 Pressure: maximum value	9.3	-	A32_S1_PROBE_RANGE_MIN	2900.0		A	R/W
		S3 Pressure: maximum value	9.3		A33_S3_PROBE_RANGE_MIN	999.9		A	R/W
		EVD unit of measure	1	-	1	2	0:	_	R
							1: barg		
							2: psig		
	Alarm min.: -	S3 pressure: minimum alarm thresold	-1		-290.0	A38_S3_ALARM_THRESHOLD_HIGH		Α	R/W
		S3 pressure: minimum alarm thresold	-1		-290.0	A38_S3_ALARM_THRESHOLD_HIGH		Δ	R/W
		EVD unit of measure	<u>'</u>		1	2	0.	1	D
		LVD utilit of fileasure			ľ	_	1	- '	IX.
							1: barg	4	
							2: psig		
	Alarm max.: -	S3 pressure: maximum alarm thresold	9.3		A40_S3_ALARM_THRESHOLD_LOW			A	R/W
		S3 pressure: maximum alarm thresold	9.3		A40_S3_ALARM_THRESHOLD_LOW	999.9		Α	R/W
		EVD unit of measure	1		1	2	0:	ı	R
							1: barg		
							2: psig		
a20			0	-	0	1	0:	D	R
							1: EVO n°	1	
			0		0	99		<u> </u>	P
		Twin valve B	0	-	0	1	0	D	D
		I WIII Valve B	U		U	l l	0.	U.	IX.
							1: .b	_	
	Probe S4 Alarm:	Reserved	0	-	0	1	0: DIS.	D	R/W
							1: EN.		
	Type:				0	2	0: CAREL NTC		
		Pressione S3: valore MASSIMO di allarme	0	-	U		o. o mee mo	ı	R/W
		Pressione S3: valore MASSIMO di allarme	0	-			1: CAREL NTC-HT	ı	R/W
		Pressione S3: valore MASSIMO di allarme	0	-	U				R/W
	Alarm min.:				-76.0	A45 S4 ALARM THRESHOLD HIGH	1: CAREL NTC-HT 2: NTC SPKP**T0	I A	
		S4 Temperature: Minimum value of alarm	-50		-76.0 -76.0	A45_S4_ALARM_THRESHOLD_HIGH A45_S4_ALARM_THRESHOLD_HIGH	1: CAREL NTC-HT 2: NTC SPKP**T0 	A A	R/W R/W R/W
		S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm		 			1: CAREL NTC-HT 2: NTC SPKP**T0 	A A	R/W
		S4 Temperature: Minimum value of alarm	-50				1: CAREL NTC-HT 2: NTC SPKP**T0 0:	A A	R/W
		S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm	-50				1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C	A A I	R/W
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure	-50 -50		-76.0 1	A45_S4_ALARM_THRESHOLD_HIGH 2	1: CAREL NTC-HT 2: NTC SPKP**T0 0:	A A I	R/W R/W R
		\$4 Temperature: Minimum value of alarm \$4 Temperature: Minimum value of alarm EVD unit of measure \$4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C	A A I	R/W R/W R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50		-76.0 1	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F	A A I	R/W R/W R
	Alarm min.:	\$4 Temperature: Minimum value of alarm \$4 Temperature: Minimum value of alarm EVD unit of measure \$4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F 0:	A A I	R/W R/W R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F 0: 1: °C	A A I A A	R/W R/W R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F 0:	A A I A A	R/W R/W R
121	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F 0: 1: °C	A A I A A	R/W R/W R
121	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0	A A I I	R/W R/W R
n21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HIGH 2 392.0	1: CAREL NTC-HT 2: NTC SPKP**T0	A A A I	R/W R/W R
n21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	A A A I D D	R/W R/W R
321	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	Ī	R/W R/W R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0 0: 1: °C 2: °F 0: 1: °C 2: °F 0: 1: EVO n° 0: 1: A 0: Relè configuration:	Ī	R/W R/W R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	I D	R/W R/W R R/W R/W R R
221	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R
321	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R/W R R R R R R R R R R
321	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D D	R/W R/W R R/W R/W R R R R R R R R R R R
21	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 2	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN Configuration DI2	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 1 1 99 1 1 1 4	1: CAREL NTC-HT 2: NTC SPKP**T0	D D	R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 1 1 99 1 1 1 4	1: CAREL NTC-HT 2: NTC SPKP**T0		R/W R/W R R/W R/W R R R R R R R R R R R
	Alarm min.: Alarm max.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN Configuration DI2	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 1 1 99 1 1 1 4	1: CAREL NTC-HT 2: NTC SPKP**T0		R/W R/W R/W R/W R/W R/W R R R R R R R R/W R/W R R R R R R R R R
a21 a22	Alarm min.:	S4 Temperature: Minimum value of alarm S4 Temperature: Minimum value of alarm EVD unit of measure S4 temperature: maximum value of alarm S4 temperature: maximum value of alarm EVD unit of measure Twin valve A Output relay configuration Abilitazione del protocollo P-LAN Configuration DI2	-50 -50 1 1 105 105 1 0 0 0 0		-76.0 1 A47_S4_ALARM_THRESHOLD_LOW	A45_S4_ALARM_THRESHOLD_HICH 2 392.0 392.0 1 1 99 1 1 1 4	1: CAREL NTC-HT 2: NTC SPKP**T0		R/W R/W R R/W R/W R R R R R R R R R R R



	<u></u>															
												IOID VALVE RELAY		4		
Haa23				0		0			1		4: VALVE 0:	+ ALARM RELAY		D.	D	+
Паасэ				U		U			ľ		0: 1: EVO n	0		٦	K	_
				0	_	0			99					+	R	+
		Twin valve A		0	-	0			1		0:			D	R	T
											1:.a					
				0		0			1			probe al.manag.:		D	R	
		Drobo C1: alar	m management	7		1			4			be alarm manag.: DEFINED		+-	R/W	+
		FTODE 31. didii	11 management	3		ı			7		1: NO AC			┪	iy vv	
												FORCED CLOSED		1		
												AT FIXED POS.		1		
												ACKUP S3		1		
				0		0			1		0: S2/S4	probe al.manag.:		D	R	
		D 1 Co 1										be alarm manag.:		┿	0.047	4
		Probe S2: alari	n management	3		I			4		0: USER 1: NO AC	DEFINED		╣	R/W	
												FORCED CLOSED		4		
												AT FIXED POS.		1		
											4: USE B	ACKUP S4		1		
Haa24				0		0			1		0:			D	R	
											1: EVO n	8		┿		4
		Twin valve B		0		0			99		0.			- I	R	┿
		I WIN VAIVE B		0	_	U			!		0: 1: .b			۳	K	
	S3 probe alarm manag.:	Probe S3: aları	m Management	1		1			3		0:			+	R/W	
	,		0	1							1: NO AC	TION		1	1	
		1									2: VALVE	FORCED CLOSED		1	1	1
		1		1	ļ							AT FIXED POSIT.	-	$oldsymbol{\perp}$	<u> </u>	
	S4 probe alarm manag.:	Probe S4: aları	n management	1		1			3		0:	TION		4	R/W	
		1									1: NO AC			4	1	
		1										FORCED CLOSED AT FIXED POSIT.		4	1	
Haa25	Circuit management	t		0	-	0			99		J. VALVE			+	R/W	+
	Delay time	1													1	
	between EVD valve on and	1													1	1
	compressor on: s	1													1	
-				1	1						ı					
	EVO_REGULATION			MD / FT ?	le o	1	1.									_
Hab01 Hab02	Chiller mode Heat Pump mode		Open valve startup (capacity ratio EV Open valve startup (capacity ratio EV		50 40		0		00						R/W R/W	+
Hab03	Defrost mode		Open valve startup (capacity ratio EV		65		0		00				ľ)	R/W	\vdash
Hab04	Valve A opened in stand-b	V:	open vaive startup (capacity ratio 24	/	0		Ť		-	0:	NO			5	R/W	_
		•									YES					
	Start-up delay after defrost	t			0	s	0	6					1		R]
	Valvle preposit . delay				0	S	0	9	90				1		R	
Hab05	Valve B opened in stand-b	y:			0		0	1		_	NO		[)	R/W	
	Valve B preposit. delay				0	c	0	1:	8000	1:	YES				P	_
Hab06	Chiller Mode				0	-	-		0000						-	+
110000	Crimer Mode									-						
	PID parameters Prop.gain:		PID: proportional gain - Valve B		0		0	8	00				F	4	R/W	Ţ
	Integral time:		PID: integral time - Valve B		0	S	0		00	-			I		R/W	
11.1.00	Derivat.time:		PID: derivative time - Valve B		0	S	0	81	00				F	1	R/W	
Hab07	Heat Pump mode		PID: proportional gain - Valve B		0	-	0	0	00				,	<u> </u>	R/W	-
	PID parameters Prop.gain: Integral time:		PID: integral time - Valve B		0	ς	0		00				ľ	1	R/W	=
	integral time.		ins. integral time valve b		Ŭ	Ĭ	Ĭ						ľ		,,	
	Derivat.time:		PID: derivative time - Valve B		0	s	0	8	00				F	4	R/W	
Hab08	Defrost mode															
	PID parameters Prop.gain:	:	PID: proportional gain - Valve B		0		0		00					1	R/W	
	Integral time: Derivat.time:		PID: integral time - Valve B PID: derivative time - Valve B		0	S .	n		00					<u> </u>	R/W R/W	1
Hab09			demouve time valve b		0		0	1		0:			ľ	<u>:</u>	R	+-
							[ſ			EVO n°				1	
		_		_	0	-	0	9:	9				İ		R	-
			Twin valve A		0	-	0	1			_)	R	
	Integral time LowSH prote	rct ·	LowSH: integral time - Valve A		15	c	0	0.	00	1:	.a		,	Δ	R/W	1
	LOP protection:	····	LOP: integral time low temperature	of evaporation -		s	0		00				1	'	R/W	Ė
	pro		Valve A													
	MOP protection:		MOP: integral time temperature of e	vaporation	20	s	0	81	00	-		-	F	1	R/W	
Hab10	1		1			0		0	1	0:		D	R]		
			<u> </u>			<u> </u>			<u></u>	1: EVO n°		<u> </u>				
			1			0	-	0	99	-			R	<u> </u>		
			Twin valve B			0	-	0	1	0:		D	R			
	Integral time Levi CII - 1	oct :	Lough into and time a low or a	t Value D		0	-	0	000	1: .b		Α	DAM	+		
	Integral time LowSH prote LOP protection:	ect	LowSH: integral time low superhea LOP: integral time low evaporation		/alve R	0	\$	0	800 800			A A	R/W R/W	一		
	MOP protection:		MOP: integral time high evaporation			0	s	0	800			A	R/W	一		
Hab11				1		0	-	0	1	0:		D	R	+		
						<u></u>				1: EVO n°						
						0	-	0	99	-			R	<u> </u>		
	High cond.temperature T	hreshold: -	High condensing temperature: three			80	<u> </u>	-76.0	392.0			A	R/W	上		
			High condensing temperature: three	sold - Valve A		80	-	-76.0	392.0			А	R/W			
			EVD unit of measure			1	-	1	2	0:		ı	R	_		
						1				1: °C						
						1				2: °F		1				





	late as time as	High condensing towns protocol time. Make A	bo	L	lo	000	I	I _A	DAM	1
	Integr.time:	High condensing temperature: integral time - Valve A High condensing temperature alarm delay - Valve A	20 600	S	0	800		A	R/W R/W	
b12	Alarm timeout:	High condensing temperature alarm delay - valve A	600	S	0	18000	0:	D	R/W	+
DIZ			U		U	ľ	0: 1: EVO n°	— ^D	ĸ	
			0	+	0	99	I. LVO II		D	+
	Modulating thermostat Setpoint: -	Modulating thermostat: setpoint	0		-76.0	392.0		Δ	R/W	
	inodulating thermostat setpoint.	Modulating thermostat: setpoint Modulating thermostat: setpoint	0		-76.0	392.0		A	R/W	
		EVD unit of measure	1		1	2	0:	1	P	
		EVD unit of fricasure	!		ľ	_	0. 1: ℃		IX	
							2: °F			
	Differential:	Modulating thermostat: differential	0.1		0	180.0	Z. 1	٨	R/W	
	Differential.				0			Α		_=
		Modulating thermostat: differential	0.1		0	180.0		A	R/W	
		EVD unit of measure	1	-	1	2	0:	<u> </u>	R	
							1: °C			
							2: °F			
	Offset set.SH: -	Modulating thermostat: setpoint offset superheat	0		0	180.0		A	R/W	
		Modulating thermostat: setpoint offset superheat	0		0	180.0		A	R/W	
		EVD unit of measure	1		1	2	0: -	I	R	
							1: K			
							2: °F			
b13			0	-	0	1	0:	D	R	
							1: EVO n°			
			0		0	99		ı	R	
		Twin valve A	0		0	1	0	D	R	
					Ī	Ī	1: .a		-	
	CO2 regulation Coefficent 'A':	CO2: coefficiente A	3.3		-100.0	800.0	11.10	٨	R/W	-
	Coefficent 'B':	CO2: coefficiente B	-22.7	Ė	-100.0	800.0		Δ	R/W	
b14	COCINCCIIL D.	COZ. COCINCICINE D	0	-	0.00	1	0:	Λ	D D	
J14			U		U	['		—P	r.	_
			0	+	0	00	1: EVO n°		<u></u>	+
		T: 1.0	U		U	99			K	
		Twin valve B	0	-	0	[1	0:	υ	R	-
						1	1: .b		4	
	CO2 regulation Coefficent 'A':	CO2: coefficient A - Valve B	0	<u> </u>	-100.0	0.008	<u> </u>	A	R/W	
	Coefficent 'B':	CO2: coefficient B - Valve B	0		-100.0	0.008		A	R/W	
015			0	-	0	1	0:	D	R	
						1	1: EVO n°			1
			0	-	0	99		i i	R	—
		Twin valve A	0		0	1	0:	D	R	
							1: .a			
	Alarm delay LowSH:	LowSH: low superheat alarm delay - Valve A	300	c	n	18000			R/W	-L
	LOP:	LOP: low evaporation temperature alarm delay - Valve A	300	-	0	18000		-	R/W	-
	MOP:		600	<u> </u>	0	18000		-		
	MOP:	MOP: high temperature evaporation alarm delay - Valve A	600	S	0	18000		-	R/W	
b16			0	-	0	1	0:	D	R	
							1: EVO n°			
			0		0	99		I	R	
		Twin valve B	0		0	1	0:	D	R	
							1: .b			
	Alarm delay LowSH:	LowSH: low superheat alarm delay - Valve B	0	s	0	18000		i	R/W	
	LOP:	LOP: low evaporation temperature alarm delay - Valve B	0	s	0	18000			R/W	
	MOP:	MOP: high evaporation temperature alarm delay - Valve B	0	s	0	18000			R/W	
b17			0		0	1	0:	D	R	
					Ī	Ī	1: EVO n°		-	
			0		n	99			P	- L-
		Twin valve A	0	-	0	1	0:	D	D	-
		TWITI Valve A	U		U	'			I.	
							1: .a			_
	Alarm low suction temperature Thresh	old: Alarm threshold low temperature suction - Valve A	-50		-76.0	392.0		A	R/W	_=
		Alarm threshold low temperature suction - Valve A	-50		-76.0	392.0		A	R/W	
		EVD unit of measure	1		1	2	0:	I	R	
							1: °C			
			_L	_L		<u></u>	2: °F			L_
	Timeout:	Alarm delay low suction temperature - Valve A	300	S	0	18000		ı	R/W	
18		·	0	-	0	1	0:	D	R	<u> </u>
-						1	1: EVO n°			
		1	0	_	0	99		li	R	—
		Twin valve B	0	_	0	1	0:	D	R	
			Ĭ		Ĭ	ľ	1: .b	-	[`	1
	Alarm low suction temperature Thresh	old: Alarm threshold low suction temperature - Valve B	0	1	-76.0	392.0		Δ	R/W	
	raam iow suction temperature infesh		0	F			+	^		
	 	Alarm threshold low suction temperature - Valve B	1	_	-76.0	392.0	0.	A	R/W	
		EVD unit of measure			1	4	0:	 '	r.	_
						1	1: °C			
			1	1	1	1	2: °F	_		
	Timeout:	Low suction temperature alarm delay - Valve B	0	S	0	18000			R/W	_=
519	Valve A opened in stand-by:		0			1	0: NO	D	R/W	F
						1	1: YES			
	Start-up delay after defrost		0	S	0	60			R	
	Valvle preposit . delay		0	s	0	990			R	-
						1				
						1				
					Щ_	Ш				
			0	-	0	1		D	R	- <u> </u>
	1					1	0: NO	1	L	
	Makes Decreased in stead bear		0	-	0	1		D	R/W	<u> -</u>
	Valve B opened in stand-by:					1			4	
				- <u>-</u>	0	100	1: YES	I	R/W	-
	vaive в opened in stand-by: at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A	50							
	at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A	50				•			•
n20	at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A	0	s	0	18000		l	R	
b20	at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s	0	18000	0: NO	D D	R R/W	<u> -</u>
D20	at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s 	0	18000 99	0: NO 1: YES			
o20	at start-up: %	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s 	0 0					
b20	at start-up: % Valve B preposit. delay Valve A opened in stand-by:	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s s s	0 0 0 0	99		D I		
b20	at start-up: % Valve B preposit. delay Valve A opened in stand-by: Start-up delay after defrost	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s s s	0 0 0 0	99				
520	at start-up: % Valve B preposit. delay Valve A opened in stand-by: Start-up delay after defrost	Open valve startup (capacity ratio EVAP / EEV) - Valve A		s s s	0 0 0 0	99				



			0	-	0	99		l	R	
		Twin valve A	0	_	0	1	0:	D	R	
							1:.a			
	Integral time LowSH protect.:	LowSH: integral time - Valve A	15	s	0	800.0		A	R/W	
	LOP protection:	LOP: integral time low temperature of evaporation - Valve A	15	s	0	800.0		A	R/W	1
	MOP protection:	MOP: integral time temperature of evaporation	20	s	0	800.0		A	R/W	
Hab24			0		0	1	0:	D	R	
						ĺ	1: EVO n°	1		
			0		0	99		1	R	
		Twin valve A	0	_	0	1	0:	D	D.	+
		I WIII Valve A	U		U	ľ	1: .b		IX.	
	Internal times Lau CII a rate et .	Lau CIII, internal time a lau au mark ant Makia D	0		0	800.0	Ιυ	Δ.	R/W	
	Integral time LowSH protect.:	LowSH: integral time low superheat - Valve B	0		0			A		-
	LOP protection:	LOP: integral time low evaporation temperature - Valve B	0	S	0	800.0		A	R/W	-
11.1.00	MOP protection:	MOP: integral time high evaporation temperature - Valve B	0	S	0	800.0		A	R/W	-
Hab25			0	-	U	I	0:	U	K	
							1: EVO n°			
			0		0	99		ļ.	R	-
	High cond.temperature Threshold: -	High condensing temperature: thresold - Valve A	80		-76.0	392.0		A	R/W	
		High condensing temperature: thresold - Valve A	80	-	-76.0	392.0		A	R/W	
		EVD unit of measure	1	-	,	2	0:	-	D	-
		EVD unit of medsure			ľ	2		-¦'	K.	
							1: °C			
		her to the terminal t					2: °F	ł		
	Integr.time:	High condensing temperature: integral time - Valve A	20	S	0	0.008		A	R/W	
	Alarm timeout:	High condensing temperature alarm delay - Valve A	600	S	0	18000		I	R/W	
Hab26			0	-	0	1	0:	D	R	 -
			<u> </u>			<u> </u>	1: EVO n°		<u> </u>	
			0	_	0	99			R	<u> </u>
	Modulating thermostat Setpoint: -	Modulating thermostat: setpoint	0		-76.0	392.0		A	R/W	<u> </u>
		Modulating thermostat: setpoint	0	F	-76.0	392.0	-	A	R/W	-
		EVD unit of measure	1		1	2	0:	İ	R	-
						1	1: °C	1		
						1	2: °F	1		
	Differential:	Modulating thermostat: differential	0.1		n	180.0		Δ	R/W	L.
	Directinal.	Modulating thermostat: differential Modulating thermostat: differential	_	E	0	180.0	±	Δ		L'
			0.1		1	100.0	0:	r.	R/W	
		EVD unit of measure	1'		ľ	2	0:	- '	К	
							1: °C			
							2: °F			
	Offset set.SH: -	Modulating thermostat: setpoint offset superheat	0		0	180.0		A	R/W	
		Modulating thermostat: setpoint offset superheat	0		0	180.0		A	R/W	
		EVD unit of measure	1		1	2	0: -	I	R	
							1: K			
							2: °F	1		
Hab27			0		0	1	0:	D	R	
							1: EVO n°	1		
			n		0	99		1	P	<u> </u>
		Turin value A	0	-	0	1	0:	D	D.	+
		Twin valve A	U		U	l I	**	- P	ĸ	
							1:.a		<u> </u>	
	CO2 regulation Coefficent 'A':	CO2: coefficiente A	3.3		-100.0	800.0		Α	R/W	
	Coefficent 'B':	CO2: coefficiente B	-22.7		-100.0	0.008		A	R/W	
Hab28			0		0	1	0:	D	R	
							1: EVO n°			
			0		0	99		1	R	
		Twin valve B	0		0	1	0:	D	R	1
							1:.b			
	CO2 regulation Coefficent 'A':	CO2: coefficient A - Valve B	0		-100.0	800.0		Α	R/W	1
	Coefficent 'B':	CO2: coefficient B - Valve B	0		-100.0	800.0		Δ	R/W	1_
Hab29	Cocinicent B.	COZ. COCINCICITE D VAIVE D	0	_	0	1	0:	n n	D	+
110025			U		U	ľ	1: EVO n°	- 5	IX.	
			0	-	0	1	I. LVO II	1		
			U					li .	D	
		Turin colon A	0		0	99		l D	R	
		Twin valve A	0	-	0	1	0:	D	R R	-
				-	0	1	0: 1: .a	D	R R	
	Alarm delay LowSH:	LowSH: low superheat alarm delay - Valve A	300	 S	0	18000		D D	R R R/W	
	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A	300 300	 S S	0 0	1 18000 18000		D 	R/W	
		LowSH: low superheat alarm delay - Valve A	300	s s s	0 0 0	18000	1: .a 	D		
Hab30	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A	300 300	s s s	0 0 0 0 0	1 18000 18000	1: .a 0:	D	R/W	
Hab30	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A	300 300 600	s s s	0 0 0 0 0	1 18000 18000	1: .a 	D	R/W	
Hab30	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A	300 300 600	s s s	0 0 0 0 0	1 18000 18000	1: .a 0:	D	R/W	
Hab30	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A	300 300 600	s s s	0 0 0 0 0 0 0 0	1 18000 18000 18000 1	1: .a 0:	D	R/W	
Hab30	LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A	300 300 600	s s s 	0 0 0 0 0	1 18000 18000 18000 1	1: .a 0: 1: EVO n°	I D I D I D D D D D D D D D D D D D D D	R/W	
Hab30	LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B	300 300 600	s s s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 18000 1 99	1: .a 0: 1: EVO n° 0:		R/W R/W R R	
Hab30	LOP: MOP: Alarm delay LowSH:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B	300 300 600	s s s s s s S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 1 18000 1 99 1	1: .a 0: 1: EVO n° 0:	D D I I I I D D I I I I I I I I I I I I	R/W R/W R R R R	
Hab30	LOP: MOP: Alarm delay LowSH: LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B	300 300 600 0 0	s s s s s s s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 18000 1 1 99 1 18000 18000	1: .a 0: 1: EVO n° 0:		R/W R/W R R R R R/W R/W	
	LOP: MOP: Alarm delay LowSH:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B	300 300 600 0 0 0	S S S S S S S S S S		1 18000 18000 1 18000 1 99 1	1: .a 0: 1: EVO n° 1: .b		R/W R/W R R R R	
Hab30	LOP: MOP: Alarm delay LowSH: LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B	300 300 600 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0	1 18000 18000 18000 1 1 99 1 18000 18000	1: .a	D I I D I D I D I D I D D	R/W R/W R R R R R/W R/W	
	LOP: MOP: Alarm delay LowSH: LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B	300 300 600 0 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 18000 1 99 1 18000 18000 18000 1	1: .a 0: 1: EVO n° 1: .b	D D D D D D D D D D D D D D D D D D D	R/W R/W R R R R R/W R/W	
	LOP: MOP: Alarm delay LowSH: LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B	300 300 600 0 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 18000 1 1 99 1 18000 18000	1: .a		R/W R/W R R R R R/W R/W	
	LOP: MOP: Alarm delay LowSH: LOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B	300 300 600 0 0 0	s s s s s	0 0 0 0 0 0 0 0	1 18000 18000 18000 1 99 1 18000 18000 18000 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 0: 0:		R/W R/W R R R R R/W R/W	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LOwSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B	300 300 600 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0 0 0	18000 18000 1 18000 1 1 1 18000 1 1 18000 1 18000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1: .a		R/W R/W R R R R R R/W R/W R/W R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A	300 300 600 0 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0 0 0 0 0 0 0	1 18000 18000 18000 1 99 1 18000 18000 18000 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 0: 0:	D	R/W R/W R R R R R R/W R/W R/W R R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LOwSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B	300 300 600 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18000 18000 1 18000 1 1 1 18000 1 1 18000 1 18000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 0: 0:	D	R/W R/W R R R R R R/W R/W R/W R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A	300 300 600 0 0 0 0 0 0	S S S S S S S S S S S S S S S S S S S		18000 18000 18000 1 1 99 1 18000 18000 1 18000 1 1 99 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 0: 0:	D	R/W R/W R R R R R R/W R/W R/W R R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A	300 300 600 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s		18000 18000 18000 1 1 99 1 18000 18000 1 18000 1 1 99 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 1: EVO n° 0: 1: .a 0:	D	R/W R/W R R R R R R/W R/W R/W R R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A	300 300 600 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s		18000 18000 18000 1 1 99 1 18000 18000 1 18000 1 1 99 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 1: EVO n° 1: EVO n° 0: 1: a 0: 1: a 1: °C	D	R/W R/W R R R R R R/W R/W R/W R R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Twin valve A Alarm threshold low temperature suction - Valve A EVD unit of measure	300 300 600 0 0 0 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s		18000 18000 18000 1 1 1 18000 18000 1 1 1 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 1: EVO n° 0: 1: .a 0:	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A	300 300 600 0 0 0 0 0 0 0 0 0 0	S S S S S S S S S S S S S S S S S S S		18000 18000 18000 1 1 99 1 18000 18000 1 18000 1 1 99 1	1: .a	D	R/W R/W R R R R R R/W R/W R/W R R	
	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Twin valve A Alarm threshold low temperature suction - Valve A EVD unit of measure	300 300 600 0 0 0 0 0 0 0 0 0	S S S S S S S S S S S S S S S S S S S		18000 18000 18000 1 1 1 18000 18000 1 1 1 1	1: .a	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Twin valve A Alarm threshold low temperature suction - Valve A EVD unit of measure	300 300 600 0 0 0 0 0 0 0 0 0 0 0	s s s s s s s s s s s s s s s s s s s		1 18000 18000 1 1 1 18000 1 1 1 1 1 1 1	1: .a	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LOWSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A dd: Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A EVD unit of measure Alarm delay low suction temperature - Valve A	300 300 600 0 0 0 0 0 0 0 0 0 0 0 1 300 0 0	s s s s s s s s s s s s s s s s s s s		18000 18000 18000 1 1 1 18000 18000 1 1 1 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 1: EVO n° 0: 1: a 0: 1: °C 2: °F 0: 1: EVO n°	D	R/W R/W R R R R R R R/W R/W R R R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Twin valve A Alarm threshold low temperature suction - Valve A EVD unit of measure	300 300 600 0 0 0 0 0 0 0 0 0 0 0	S S S S S S S S S S S S S S S S S S S		1 18000 18000 1 1 1 18000 1 1 1 1 1 1 1	1: .a	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho Timeout:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Id: Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A EVD unit of measure Alarm delay low suction temperature - Valve A	300 300 600 0 0 0 0 0 0 0 0 0 0 0 1 300 0 0	S S S S S S S S S S S S S S S S S S S	-76.0 1 0 0 0	1 18000 18000 1 1 1 18000 18000 1 1 1 1	1: .a 0: 1: EVO n° 1: .b 0: 1: EVO n° 1: EVO n° 0: 1: a 0: 1: °C 2: °F 0: 1: EVO n°	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho Timeout:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A dd: Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A EVD unit of measure Alarm delay low suction temperature - Valve A Twin valve B	300 300 600 0 0 0 0 0 0 0 0 0 0 0 1 300 0 0	s s s s s s s s s s s s s s s s s s s		1 18000 18000 1 1 1 18000 1 1 1 1 1 1 1	1: .a	D	R/W R/W R R R R R R R/W R/W R/W R/W R/W R R R R R R R R R R R R R R R R R R R	
Hab31	LOP: MOP: Alarm delay LowSH: LOP: MOP: Alarm low suction temperature Thresho Timeout:	LowSH: low superheat alarm delay - Valve A LOP: low evaporation temperature alarm delay - Valve A MOP: high temperature evaporation alarm delay - Valve A Twin valve B LowSH: low superheat alarm delay - Valve B LOP: low evaporation temperature alarm delay - Valve B MOP: high evaporation temperature alarm delay - Valve B Twin valve A Id: Alarm threshold low temperature suction - Valve A Alarm threshold low temperature suction - Valve A EVD unit of measure Alarm delay low suction temperature - Valve A	300 300 600 0 0 0 0 0 0 0 0 0 0 0 1 300 0 0 0	S S S S S S S S S S S S S S S S S S S	-76.0 1 0 0 0	1 18000 18000 1 1 1 18000 18000 1 1 1 1	1: .a	D	R/W R/W R R R R R R R R/W R/W R/W R R R R	



		I	ı	i	Í	1	1: °C	ı	1	I
							7: °F	_		
	Timeout:	Low suction temperature alarm delay - Valve B	0	s	0	18000		l	R/W	
	EVO_CUSTOM									
Hac01			0	_	0	1	0: 1: EVO n°	D	R	
			0	_	0	99			R	
		Twin valve A	0	_	0	1	0:	D	R	
							1: .a			
	Min.steps:	EEV minimum steps - Valve A	50 480	_	0	9999 9999		1	R/W R/W	
	Max.steps: Closing steps:	EEV maximum steps - Valve A EEV full close steps - Valve A	500	_	0	9999		1	R/W	
Hac02	crossing steps:	EEV Idii close steps - Valve /	0	-	0	1	0:	D	R	
							1: EVO n°			
		T. in and a D	0	-	0	99		D	R	
		Twin valve B	U	_	U	1	0: 1: .b	- D	К	
	Min.steps:	EEV minimum steps - Valve B	0	_	0	9999		l	R/W	
	Max.steps:	EEV maximum steps - Valve B	0	_	0	9999		I	R/W	
11 07	Closing steps:	EEV fullclose steps - Valve B	0		0	9999		1	R/W	
Hac03			0		0	I	0: 1: EVO n°	D	K	
			0	_	0	99		ı	R	
		Twin valve A	0	-	0	1	0:	D	R	
							1: .a			
	Nom.step rate: Hz Move current: mA	EEV move rate - Valve A EEV move current - Valve A	50 450	-	0	2000 800			R/W R/W	
	Holding current: mA	EEV hold current - Valve A	100		0	800		<u> </u>	R/W	
Hac04	0.00		0	-	0	1	0:	D	R	-
							1: EVO n°			
		Tuin value D	0	-	0	99	0:	D	R R	
		Twin valve B	U		U	1	0: 1: .b	U	K	
	Nom.step rate: Hz	EEV move rate - Valve B	1	-	1	2000		ı	R/W	
	Move current: mA	EEV move current -Valve B	0	_	0	800			R/W	
11 05	Holding current: mA	EEV holding current - Valve B	0		0	250		1	R/W	
Hac05			0		0	ļ	0: 1: EVO n°	J ^D	K	
			0	_	0	99		ı	R	
		Twin valve A	0	-	0	1	0:	D	R	_
		Permit and the second s					1: .a			
	Duty cycle: % Opening synchr.	EEV duty cycle - Valve A Opening valve position syncronization - Valve A	30	-	0	100	0: NO	D D	R/W R/W	
	Opening Synchi.	Opening valve position syncionization - valve A	ľ		U	ľ	1: YES	-	ry vv	
	Closing synchr.:	Closing valve position syncronization - Valve A	1	-	0	1	0: NO	D	R/W	
							1: YES			
Hac06			0	-	0	1	0:	D	R	
			0		0	99	1: EVO n°	1	R	
		Twin valve B	0	_	0	1	0:	D	R	
							1: .b			
	Duty cycle: %	EEV duty cycle - Valve B	1	-	1	100		1	R/W	
	Opening synchr.:	Opening valve position syncronization - Valve B	0		0	I	0: NO 1: YES	D	R/W	
	Closing synchr.:	Closing valve position syncronization - Valve B	0	_	0	1	0: NO	D	R/W	
	0.7	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					1: YES		,	
Hac07			0		0	1	0:	D	R	
			0		0	99	1: EVO n°	1	R	
		Twin valve A	0	_	0	1	0:	D	R	
							1: .a			
	Min.steps:	EEV minimum steps - Valve A	50	-	0	9999		l	R/W	
	Max.steps:	EEV maximum steps - Valve A	480	_	0	9999		1	R/W	
Hac08	Closing steps:	EEV full close steps - Valve A	500		0	9999 1	0:	D	R/W R	
							1: EVO n°	1		
			0	-	0	99		ĺ	R	
		Twin valve B	0	-	0	1	0:	D	R	
	Min.steps:	EEV minimum steps - Valve B	0	_	0	9999	1: .b 		R/W	
	Max.steps:	EEV maximum steps - Valve B	0	\vdash	0	9999		ĺ	R/W	
	Closing steps:	EEV fullclose steps - Valve B	0		0	9999		ı	R/W	
Hac09			0	-	0	1	0:	D	R	
			0	-	0	99	1: EVO n°		D	
		Twin valve A	0		0	1	0:	D	R	
						<u></u>	1: .a			<u> </u>
	Nom.step rate: Hz	EEV move rate - Valve A	50	_	1	2000		ı	R/W	-
	Move current: mA	EEV move current - Valve A	450 100	+	0	800 800	 -	I I	R/W R/W	
Hac10	Holding current: mA	EEV hold current - Valve A	0		0	1	0:	D	R R	
			<u> </u>			<u></u>	1: EVO n°	<u> </u>		
			0	_	0	99			R	
		Twin valve B	0	-	0	1	0:	D	R	
	Nom.step rate: Hz	EEV move rate - Valve B	1		1	2000	1: .b 		R/W	
	Move current: mA	EEV move current -Valve B	0	-	0	800		ĺ	R/W	
	Holding current: mA	EEV holding current - Valve B	0	-	0	250		l	R/W	
Hac11			0	F _	0	1	0:	D	R	<u> </u>
			0	<u> </u>	n	99	1: EVO n°		R	
		Twin valve A	0	-	0	1	0:	D	R	
	•	•	•	•	•	•	•			



	İ	[Ì	1	1	1	1: .a			l	1	1		
	Duty cycle: %	EEV duty cycle - Valve A	30	_	1	100				ı	R/W	-	-	
	Opening synchr.	Opening valve position syncronization - Valve A	1	_	0	1	0: N	0		D	R/W	-	_	
							1: Y							
	Closing synchr.:	Closing valve position syncronization - Valve A	1		0	1	0: N			D	R/W	ŀ		
							1: Y							
Hac12			0	_	0	1	0:			D	R	ŀ	-	
			0	-	0	99	1: E	VO n°			D			
		Twin valve B	0	_	0	1	0:			D	R		-	
		I WIII Valve B	U		U		0 1: .b			D	IX			
	Duty cycle: %	EEV duty cycle - Valve B	1	_	1	100				ı	R/W			
	Opening synchr.:	Opening valve position syncronization - Valve B	0	_	0	1	0: N	0		D	R/W	-	_	
	37	, , , , , , , , , , , , , , , , , , , ,					1: Y				,			
	Closing synchr.:	Closing valve position syncronization - Valve B	0	-	0	1	0: N	0		D	R/W	-	-	
							1: Y	ES						
I/O Config														
Hb01	Probe config.	Enable high pressure probes				1		0	1	0: N		D		
	En.high press.probe:	les t								1: Y				↓
	Туре:	High pressure probe type				6		U	Ь	0: NTC 1: PT1000		ľ	_	
										2: 0-1V				
										3: 0-10V				
										4: 0-20mA/4-20m/	A			
										5: ON-OFF	-			
										6: 0-5V				
	0-20mA/4-20mA:	HP 0-20mA/4-20mA selection				1		0	1	0: 0-20mA		D	-	-
								1		1: 4-20mA				
	Probe config.	Enable high pressure probes	<u> </u>			1	-	0	1	0: N		D		
	En.high press.probe:	lie i					ļ	1		1: Y		<u> </u>	<u> </u>	↓
	Туре:	High pressure probe type				6		0	6	0: NTC			-	-
								1	1	1: PT1000		ł		
								1	1	2: 0-1V 3: 0-10V				
								1	1	4: 0-20mA/4-20m/	A			
										5: ON-OFF	-			
										6: 0-5V				
	0-20mA/4-20mA:	HP 0-20mA/4-20mA selection				1		0	1	0: 0-20mA		D	_	
		·								1: 4-20mA				
Hb02	Probe config.	HP probe min limit				0	barg	0	99,9			A	_	
	High pressure probe Minimum:					0	psig	0	1448,6					
	Maximum:	HP probe max limit				715	barg	0	00.0			Α		├ ──
	ividxiiTiUTT.	FIF Probe max iimit				34,5 514,8	barg psig	0	99,9 1448,6			Α		
Hb03	Probe config.	Enable low pressure probes				1	P318	0	1	0: N		D		_
11005	En.low press.probe:	Enable low pressure probes				ľ		Ŭ	ľ	1: Y				
	Туре:	Low pressure probe type				6		0	6	0: NTC		l	_	
	· ·									1: PT1000				
										2: 0-1V				
										3: 0-10V				
										4: 0-20mA/4-20m/	4			
										5: ON-OFF				
	0-20mA/4-20mA:	LD 0 20m A/A 20m A colontion				1		0	1	6: 0-5V		D	ļ	├
	0-2011Ay4-2011A:	LP 0-20mA/4-20mA selection				ľ		U	l	0: 0-20mA 1: 4-20mA		D		
Hb04	Probe config.	LP probe min limit				0	barg	0	99,9	1. 4-2011A		Δ		
11001	Low pressure probe	El prope minimine				0	psig	0	1448,6					
	Minimum:						1 0							
	Maximum:	LP probe max limit				34,5	barg	0	99,9			A	-	
						514,8	psig	0	1448,6					↓
Hb05	Probe config. Enable outlet water evaporator probe:	Enable outlet water evap.reg.temp.probe				[<u> </u>	U	['	0: N		D	_	-
	Enable inlet water evaporator probe:	Enable inlet water evap.reg.temp.probe				1	L	0	1	1: Y 0: N		D	<u></u>	
	Enable linet water evaporator probe.	Enable fillet water evaplieg.temp.probe				[ſ	ľ	0: N 1: Y		ľ		
Hb06	Probe config.	Enable outlet water cond.temp.probes				1	_	0	1	0: N		D		
	Enable outlet water condenser probe:							ſ		1: Y		1		
	Enable inlet water condenser probe:	Enable inlet water cond.reg.temp.probe				1	-	0	1	0: N		D	-	-
							ļ	1	1	1: Y				<u> </u>
Hb07	Probe config.	Enable external temp.probe				1		0	1	0: N		D	-	-
111.00	Enable external temperature probe:	DINIX Is air					1			1: Y			1	<u> </u>
Hb08	Master DIN logic 01= High press.circ.1:	DIN1 logic				0	_	U	[0: NORMAL CLOSI 1: NORMAL OPEN		D	_	
	02= Low press.circ.1:	DIN2 logic				0		0	1	0: NORMAL CLOSI		D		├
	02= LOW press.circ.1.	DINZ logic				U		U	'	1: NORMAL CLOS		U		
Hb09	Master DIN logic	DIN3 logic				0		0	1	0: NORMAL CLOSI		D		_
11003	03= Remote On-Off:	5.115.108.00						Ŭ		1: NORMAL OPEN		Ĭ		
	04= Cond.water flow:	DIN4 logic				0		0	1	0: NORMAL CLOSI		D	-	
_						L	L	<u>L</u>	<u>L</u>	1: NORMAL OPEN		L	L	
Hb10	Master DIN logic	DIN5 logic				0		0	1	0: NORMAL CLOSI		D	_	
	05= Evap.water flow:						ļ	1	1	1: NORMAL OPEN				<u> </u>
	06= Ovrl.cmp.1 circ.1:	DIN6 logic				0		0	1	0: NORMAL CLOSI		D	-	
ut a :	M DINI. :	DIVIT I					ļ	1	Į.	1: NORMAL OPEN		_	1	<u> </u>
Hb11	Master DIN logic 07= Ovrl.cmp.2 circ.1:	DIN7 logic				0		0	1	0: NORMAL CLOSI		D	<u> </u>	
		DINO logic				0	-	6	<u> </u>	1: NORMAL OPEN 0: NORMAL CLOSI		D		—
	08= Serious alarm:	DIN8 logic				U		ľ	['	0: NORMAL CLOSI 1: NORMAL OPEN		U		-
Hb12	Master DIN logic	DIN9 logic				0		0	1	0: NORMAL CLOS		D		<u></u>
1.012	09= High press.circ.2:					ľ		Ĩ	Ī	1: NORMAL OPEN		Í		
	10= Low press.circ.2:	DIN10 logic				0		0	1	0: NORMAL CLOS		D	<u> </u>	
								1	1	1: NORMAL OPEN		1		
Hb13	Master DIN logic	DIN11 logic				0		0	1	0: NORMAL CLOSI		D	-	-
	11= Ovrl.cmp.1 circ.2:									1: NORMAL OPEN				<u> </u>
		·												_



	12= Ovrl.cmp.2 circ.2:	DIN12 logic	0	-	0 1	0: NORMAL CLOSE	D	- 1	
Hb14	Master DIN logic	DIN13 logic	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D	_	_
	13= Ovrl.evap.pump 1:	, and the second				1: NORMAL OPEN			
Hb15	Master DIN logic 13= Ovrl.evap.pump 1:	DIN13 logic	0		0 1	0: NORMAL CLOSE 1: NORMAL OPEN	D	-	
	14= Cond.water flow:	DIN14 logic	0		0 1	0: NORMAL CLOSE	D		-
Hb16	Master DIN logic	DIN13 logic	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D		
חטוס	13= Ovrl.evap.pump 1:	DINTS TORIC	U		0 1	1: NORMAL OPEN	- U		
	14= Ovrl.evap.pump 2:	DIN14 logic	0	_	0 1	0: NORMAL CLOSE	D	_	-
Hb17	Master DIN logic	DIN15 logic	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D		_
	15= Ovrl.cmp.3 circ.1:					1: NORMAL OPEN			
	16= Ovrl.cmp.3 circ.2:	DIN16 logic	0		0 1	0: NORMAL CLOSE 1: NORMAL OPEN	D	_	
Hb18	Master DIN logic	DIN17 logic	0		0 1	0: NORMAL CLOSE	D	-	-
Hb19	17= Cond.water flow: Slave DIN logic	DIN1 logic of slave board	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D		
כוטוז	01= High press.circ.3:	DINT logic of slave board	U			1: NORMAL OPEN	-		_
	02= Low press.circ.3:	DIN2 logic of slave board	0		0 1	0: NORMAL CLOSE 1: NORMAL OPEN	D		
Hb20	Slave DIN logic	DIN6 logic of slave board	0		0 1	0: NORMAL CLOSE	D	_	
	06= Ovrl.cmp.1 circ.3:					1: NORMAL OPEN			
	07= Ovrl.cmp.2 circ.3:	DIN7 logic of slave board	0		0 1	0: NORMAL CLOSE 1: NORMAL OPEN	D	-	
Hb21	Slave DIN logic	DIN9 logic of slave board	0	_	0 1	0: NORMAL CLOSE	D	_	
	09= High press.circ.4: 10= Low press.circ.4:	DIN10 logic of slave board	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D		
	10= LOW press.circ.4.	Dilivio logic di siave board	U		1	1: NORMAL OPEN	U		
Hb22	Slave DIN logic 11= Ovrl.cmp.1 circ.4:	DIN11 logic of slave board	0	_	0 1	0: NORMAL CLOSE	D	-	-
	11= Ovrl.cmp.1 circ.4: 12= Ovrl.cmp.2 circ.4:	DIN12 logic of slave board	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D	_	_
	,		1			1: NORMAL OPEN			
Hb23	Slave DIN logic 13= Ovrl.evap.pump 2:	DIN13 logic of slave board	0	-	0 1	0: NORMAL CLOSE 1: NORMAL OPEN	D	-	
Hb24	Slave DIN logic	DIN15 logic of slave board	0	_	0 1	0: NORMAL CLOSE	D	_	
	15= Ovrl.cmp.3 circ.3: 16= Ovrl.cmp.3 circ.4:	DIN16 logic of slave board	0		0 1	1: NORMAL OPEN 0: NORMAL CLOSE	D		
	16= OVII.diip.3 drc.4.	DIN TO logic of slave board	U		0 1	1: NORMAL OPEN	U		_
Hb25	Master DOUT logic 01= Comp.1 circ.1:	DOUT1 logic	0	_	0 1	0: NORMAL OPEN	D	_	-
	02= Comp.2 circ.1:	DOUT2 logic	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D	_	_
	,					1: NORMAL CLOSE			
Hb26	Master DOUT logic 03= Comp.1 circ.2:	DOUT3 logic	0		0 1	0: NORMAL OPEN 1: NORMAL CLOSE	D	-	
	04= Comp.2 circ.2:	DOUT4 logic	0		0 1	0: NORMAL OPEN	D	-	-
Hb27	Master DOUT logic	DOUTS logic	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D	_	
11027	05= Cond.fan group 1:	5661516gc				1: NORMAL CLOSE	Ī		
	or05= Comp.2 circ.1: 06= Cond.fan group 2:	DOUT6 logic	0		0 1	0: NORMAL OPEN	D	_	
			_			1: NORMAL CLOSE			
Hb28	Master DOUT logic 05= Condensing pump 1:	DOUT5 logic	0		0 1	0: NORMAL OPEN 1: NORMAL CLOSE	D	-	
	06= Condensing pump 2:	DOUT6 logic	0		0 1	0: NORMAL OPEN	D	-	-
Hb29	Master DOUT logic	DOUT7 logic	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D		
TIDES	07= Antifreeze heater:	booth logic	Ü			1: NORMAL CLOSE			
	08= Serious alarm:	DOUT8 logic	0		0 1	0: NORMAL OPEN 1: NORMAL CLOSE	D	_	
Hb30	Master DOUT logic	DOUT9 logic	0		0 1	0: NORMAL OPEN	D	_	_
	09= Evaporator pump 1:		_			1: NORMAL CLOSE			
Hb31	Master DOUT logic 10= Liquid solenoid 1:	DOUT10 logic	U		U [1	0: NORMAL OPEN 1: NORMAL CLOSE	D		
	11= Liquid solenoid 2:	DOUT11 logic	0		0 1	0: NORMAL OPEN	D	-	
Hb32	Master DOUT logic	DOUT12 logic	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D		
	12= 4Way valve circ.1:	, and the second				1: NORMAL CLOSE			
	13= 4Way valve circ.2:	DOUT13 logic	0	-	0 1	0: NORMAL OPEN 1: NORMAL CLOSE	D	-	
Hb33	Master DOUT logic	DOUT14 logic	0	-	0 1	0: NORMAL OPEN	D	-	
	14= Comp.3 circ.1: 15= Comp.3 circ.2:	DOUT15 logic	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D		
_	,	און בנוספון בוועלונ	U	Ĺ		1: NORMAL CLOSE	Ľ		_
Hb34	tr . marmt :	DOUT16 logic	0		0 1	0: NORMAL OPEN	D	-	-
	Master DOUT logic							1	
Hb35	16= Evaporator pump 2: Slave DOUT logic	DOUT1 logic of slave board	0		0 1	1: NORMAL CLOSE 0: NORMAL OPEN	D	-	_
Hb35	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3:	DOUT1 logic of slave board	0		0 1	0: NORMAL OPEN 1: NORMAL CLOSE			-
Hb35	16= Evaporator pump 2: Slave DOUT logic	, and the second	0		0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN	D D		
Hb35	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic	DOUT1 logic of slave board	0		0 1 0 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN			
	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4:	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board	0		0 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE	D D		
Hb36	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4: 04= Comp.2 circ.4:	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board DOUT4 logic of slave board	0 0 0		0 1 0 1 0 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE	D D		
	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4: 04= Comp.2 circ.4: Master DOUT logic	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board	0 0 0 0 0		0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN	D D		
Hb36	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4: 04= Comp.2 circ.4:	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board DOUT4 logic of slave board	0 0 0 0 0		0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE	D D		
Hb36	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4: 04= Comp.2 circ.4: Master DOUT logic 16= Evaporator pump 2:	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board DOUT4 logic of slave board DOUT6 logic	0 0 0 0 0		0 1 0 1 0 1 0 1 0 1	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL OPEN 1: NORMAL OPEN 1: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE	D D		
Hb36	16= Evaporator pump 2: Slave DOUT logic 01= Comp.1 circ.3: 02= Comp.2 circ.3: Slave DOUT logic 03= Comp.1 circ.4: 04= Comp.2 circ.4: Master DOUT logic	DOUT1 logic of slave board DOUT2 logic of slave board DOUT3 logic of slave board DOUT4 logic of slave board	0 0 0 0 0 0		0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 0 1 0	0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL CLOSE 0: NORMAL OPEN 1: NORMAL OPEN 1: NORMAL CLOSE 0: NORMAL OPEN	D D		



	 	1	1	i	1	1	1. NODMAL CLOSE	1	1	ı
Hb39	Slave DOUT logic	DOUT12 logic of slave board	0		0	1	1: NORMAL CLOSE 0: NORMAL OPEN	D	+	+
прээ	12= 4Way valve circ.3:	DOUTIZ TORIC OF STAVE DOUTE	U		U	ľ	1: NORMAL CLOSE	U		
	13= 4Way valve circ.4:	DOUT13 logic of slave board	0		0	1	0: NORMAL OPEN	D		
	is may take are in	5 0 0 1 3 10,000 01 314 00 504.4	Ŭ			ľ	1: NORMAL CLOSE	ľ		
Hb40	Slave DOUT logic	DOUT14 logic of slave board	0		0	1	0: NORMAL OPEN	D	_	
115 10	14= Comp.3 circ.3:	5 CONTROJE OF SILVE SOLITO	Ŭ			ľ	1: NORMAL CLOSE	ľ		
	15= Comp.3 circ.4:	DOUT15 logic of slave board	0		0	1	0: NORMAL OPEN	D		
	is compis are in	5 CO 113 Togic Of State Sound	Ĭ		Ĭ	ľ	1: NORMAL CLOSE	ľ		
Factory s	ettings					1	1. IVOITWINE CEOSE			
Hc01	Enable unit OnOff	Enable unit OnOff by supervisor:	0	_	0	1	0: NO	D	Τ.	Τ
	By supervisor:	Enable disk offer by supervisor.	Ŭ			ľ	1: YES	ľ		
	By digit input:	Enable unit OnOff by digital input:	0		n	1	0: NO	D		
	by digit input.	Enable drift offort by digital input.	Ŭ		Ĭ	ľ	1: YES			
Hc02	Date format:	Date format	1		1	3	0:	1	R	14
TICOZ	Date format.	Bute format	ľ		ľ	ľ	1: dd/mm/yy	•	ľ	
							2: mm/dd/yy			
							3: yy.mm.dd			
Hc03	Unit measurement type:	UM changed in interface	1		1	2	0:	ı		
11005	one measurement type.	om changes in interface	ľ		ľ	Ī	1: STANDARD(°C - barg)	ĺ		
							2: ANGLO-SAXON(°F - psig)			
	Enable change unit measurement by	Enable change unit of measure by BMS	0		n	1	0: NO	D		
	BMS:	and the change unit of measure by birds	Ĭ			ľ	1: YES	Ĭ		
Hc04	Custom rotation	Custom rotation ON sequence: weight Dev1 Circ1 (0: High; 15: Low)	0		0	15	1. 1LJ		R/W	15
1104	ON order	Custom rotation ON sequence: weight Dev1 Circl (0: High; 15: Low) Custom rotation ON sequence: weight Dev2 Circl (0: High; 15: Low)	0	Ē	0	15	L	-	R/W	16
	0:higher ÷ 15:lower		0	-	0	15	+		R/W	17
	0	Custom rotation ON sequence: weight Dev3 Circ1 (0: High; 15: Low)	0	-	0		F	-		
		Custom rotation ON sequence: weight Dev4 Circ1 (0: High; 15: Low)	0		0	15	 -	-	R/W	18
		Custom rotation ON sequence: weight Dev1 Circ2 or Dev5 Circ1 (0: High; 15: Low)	0	-	U	15	 		R/W	19
		Custom rotation ON sequence: weight Dev2 Circ2 or Dev6 Circ1 (0: High; 15: Low)	0	-	0	15 15			R/W	20 21
		Custom rotation ON sequence: weight Dev3 Circ2 or Dev7 Circ1 (0: High; 15: Low)	0		0			!	R/W	
		Custom rotation ON sequence: weight Dev4 Circ2 or Dev8 Circ1 (0: High; 15: Low)	0		0	15	-		R/W	22
		Custom rotation ON sequence: weight Dev1 Circ3 or Dev9 Circ1 (0: High; 15: Low)	0		0	15	-		R/W	23
		Custom rotation ON sequence: weight Dev2 Circ3 or Dev10 Circ1 (0: High; 15: Low)	0		0	15			R/W	24
		Custom rotation ON sequence: weight Dev3 Circ3 or Dev11 Circ1 (0: High; 15: Low)	0		0	15			R/W	25
		Custom rotation ON sequence: weight Dev4 Circ3 or Dev12 Circ1 (0: High; 15: Low)	0		0	15	-	l	R/W	26
		Custom rotation ON sequence: weight Dev1 Circ4 or Dev13 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	27
		Custom rotation ON sequence: weight Dev2 Circ4 or Dev14 Circ1 (0: High; 15: Low)	0		0	15	-	l	R/W	28
		Custom rotation ON sequence: weight Dev3 Circ4 or Dev15 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	29
		Custom rotation ON sequence: weight Dev4 Circ4 or Dev16 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	30
Hc05	Custom rotation	Custom rotation OFF sequence: weight Dev1 Circ1 (0: High; 15: Low)	0		0	15	-	l	R/W	31
	OFF order	Custom rotation OFF sequence: weight Dev2 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	32
	0:higher ÷ 15:lower	Custom rotation OFF sequence: weight Dev3 Circ1 (0: High; 15: Low)	0		0	15	-	l	R/W	33
		Custom rotation OFF sequence: weight Dev4 Circ1 (0: High; 15: Low)	0		0	15	-	l	R/W	34
		Custom rotation OFF sequence: weight Dev1 Circ2 or Dev5 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	35
		Custom rotation OFF sequence: weight Dev2 Circ2 or Dev6 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	36
		Custom rotation OFF sequence: weight Dev3 Circ2 or Dev7 Circ1 (0: High; 15: Low)	0		0	15		I	R/W	37
		Custom rotation OFF sequence: weight Dev4 Circ2 or Dev8 Circ1 (0: High; 15: Low)	0		0	15		I	R/W	38
		Custom rotation OFF sequence: weight Dev1 Circ3 or Dev9 Circ1 (0: High; 15: Low)	0		0	15		I	R/W	39
		Custom rotation OFF sequence: weight Dev2 Circ3 or Dev10 Circ1 (0: High; 15: Low)	0		0	15		I	R/W	40
		Custom rotation OFF sequence: weight Dev3 Circ3 or Dev11 Circ1 (0: High; 15: Low)	0		0	15		I	R/W	41
		Custom rotation OFF sequence: weight Dev4 Circ3 or Dev12 Circ1 (0: High; 15: Low)	0	<u> </u>	0	15	<u> </u>	l	R/W	42
		Custom rotation OFF sequence: weight Dev1 Circ4 or Dev13 Circ1 (0: High; 15: Low)	0		0	15		l	R/W	43
		Custom rotation OFF sequence: weight Dev2 Circ4 or Dev14 Circ1 (0: High; 15: Low)	0	<u> </u>	0	15		I	R/W	44
		Custom rotation OFF sequence: weight Dev3 Circ4 or Dev15 Circ1 (0: High; 15: Low)	0	<u> </u>	0	15	<u> </u>	l	R/W	45
		Custom rotation OFF sequence: weight Dev4 Circ4 or Dev16 Circ1 (0: High; 15: Low)	0	-	0	15		l	R/W	46
Hc06	Compressors Min ON time:	Compressors min ON time	60	S	0	999	-	l	R/W	47
	Min OFF time:	Compressors min OFF time	360	S	0	999	4	l	R/W	48
	Min time between same comp.start:	Min start time between same compressor	450	S	0	999		l	R/W	49
Hc07	Enable prevent High pressure:	Enable high pressure prevent	1	-	0	1	0: NO	D	R/W	65
					1		1: YES		1	
	Low pressure:	Enable low pressure prevent	1		0	1	0: NO	D	R/W	66
					1		1: YES		1	
	Antifreeze:	Enable antifreeze prevent	1		0	1	0: NO	D	R/W	67
							1: YES		<u> </u>	
Hc08	Antifreeze alarm Threshold:	Freeze alarm setpoint	3	°C	-99,9	9,9		A	R/W	53
			37,4	°F	-17,8	17,8		A	<u> </u>	
	Differential:	Freeze alarm differential	1	°C	0	60	-	A	R/W	54
			1,8	°F	0	108		A		
Hc09	Antifreeze heater Setpoint:	Heater threshold	5	°C	-99,9	9,9	<u> </u>	A	R/W	49
			41	°F	-17,8	17,8		A	1	
	D'fft'-1	Heater differential	1	°C	0	60		A	R/W	50
	Differential:	•		°F	0	108		A	7	
	Differential:		1,8	Г						
Hc10	Antifreeze force off compressors	Force off comps.offset by antifreeze	1,8	°C	0	60		A		
Hc10		Force off comps.offset by antifreeze		°C °F	0			A A	-	
Hc10	Antifreeze force off compressors	Force off comps.offset by antifreeze Force off comps.differential by antifreeze	1,5	°C °F °C	0 0	60		A A A		





Initialization

middize	aon								
Hd01	Insert new manufacture password (PW2):	New manufacturer password	1234		0	9999		l	
Hd02		Default require by manufacturer menu	0	-	0	1	0: NO	l	
	Erase user settings and install global						1: YES	1	
	default value:								<u> </u>
Hd03	Save unit configuration:	Save current unit configuration	0		0	1		D	 _
	Last saving:	Last saving date: Day		day	0	31		l	
		Last saving date: Month		month	0	12		l	
		ast saving date: Year		vear	0	99		1	

	1	Last saving date. Teal		уел	U	99		!		
Input/Or	tput Test									
He01	IO test config. Max test time:	I/O test maximum time	180	L	n	999				_
11001	Enable IO test:	Enable physical input-output test	0		0	1	0: NO	D.		士
	Eliable to test.	Enable physical input output test	ľ		Ü	ľ	1: YES			
He02	Master AIN test	Drawa has a deceription	0		0	0	0: NTC		+	-
пеии	B1= -> 0-1000	Prove type description	U		U	9		'	-	
	B1=->0-1000						1: PT1000			
							2: 0-1V			
							3: 0-10V			
							4: 0-20mA			
							5: On/Off			
							6: 0-5V			
							7: 4-20mA			
	F	Value to form the high account of the first and the	0	_		1000	7. 4-ZUITIA		+	+
	Force to:	Value to force the high pressure circuit 1 probe	0	_	0	1000				
	High pressure circ.1:	High pressure circuit 1	0	barg/psig	-999,9	999,9		A	R	1
	->	High pressure circuit 1 converted to temperature	0	°C/°F	-999,9	999,9		A	R	2
He03	Master AIN test	Value to force the external temperature probe	0	-	0	1000		I		-
	B2= NTC -> 0-1000									
	Force to:									
	External temperature:	External temperature	0	°C/°F	-999,9	999,9		I	R	28
He04	Master AIN test	Prove type description	0		0	9	0: NTC			
	B2= -> 0-1000						1: PT1000			
							2: 0-1V			
	1				1	1	3: 0-10V			
	1				Ī	1	4: 0-20mA			1
				1	1		5: On/Off			
	1				Ī	1	6: 0-5V			1
	1				1	1	7: 4-20mA	\neg		
	Force to:	Value to force the low pressure circuit 1 probe	n	_	0	1000			+-	+-
			0	hara/rai-	000.0		+		D D	0
	Low pressure circ.1:	Low pressure circuit 1	U	barg/psig	-999,9	999,9	-	A .	L/	9
	->	Low pressure circuit 1 converted to temperature	0	°C/°F	-999,9	999,9		Α	R	10
He05	Master AIN test	Value to force the outlet water evaporator temperature probe	0	-	0	1000		l	-	
	B3= NTC -> 0-1000									
	Force to:									
	Outlet water evap. temperature:	Outlet water evaporator temperature	0	°C/°F	-999,9	999,9		l l	R	18
He06	Master AIN test	Value to force the evaporator water temperature probe	0	_	0	1000		-	T	T
	B3= NTC -> 0-1000 Force to:	' ' '								
	Evaporator water temperature:	Evaporator water temperature	0		-999,9	999,9			R	18
He07	Master AIN test	Value to force the inlet water evaporator temperature probe	0		0	1000		- i-	+`-	10
11607	B4= NTC -> 0-1000 Force to:	value to force the fillet water evaporator temperature probe	U		U	1000		ľ		
		Lilata and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second an	0	00/05	000.0	000.0				17
	Inlet water evap. temperature:	Inlet water evaporator temperature	0	°C/°F	-999,9	999,9		!	K	17
He08	Master AIN test	Value to force the outlet water condensator 2 temperature probe	0	-	0	1000		ľ		-
	B4= NTC -> 0-1000 Force to:									
	Outlet water cond.2 temperature:	Outlet water condensator 2 temperature	0	°C/°F	-999,9	999,9		I	R	24
He09	Master AIN test	Value to force the outlet water evaporator 1 temperature probe	0	-	0	1000		I		-
	B5= NTC -> 0-1000 Force to:									
	Outlet water evap.1 temperature:	Outlet water evaporator 1 temperature	0	°C/°F	-999,9	999,9		I	R	19
He10	Master AIN test	Value to force the inlet water condensator temperature probe	0	_	0	1000				
	B5= NTC -> 0-1000 Force to:	· · ·								
	Inlet water cond. temperature:	Inlet water condensator temperature	0	°C/°F	-999,9	999,9			R	27
He11	Master AIN test	Value to force the outlet water condensator 1 temperature probe	0		0	1000			Ë	
HCH	B5= NTC -> 0-1000	value to force the datiet water condensator i temperature probe	o		U	1000		ľ		
	Force to:									
	Outlet water cond.1 temperature:	Outlet water condensator 1 temperature	0	°C/°F	-999,9	999,9	_		D	23
Hall			0	91	000,0	0.00,0	0: NTC			- 23
He12	Master AIN test	Prove type description	U		U	9		'	-	-
	B6= -> 0-1000						1: PT1000			
							2: 0-1V			
							3: 0-10V			
							4: 0-20mA			
							5: On/Off			
							6: 0-5V			
				1	1		7: 4-20mA	\neg		1
	Force to:	Value to force the high pressure circuit 2 probe	0	_	0	1000			\pm	+
			U n	hass to all	0000			<u> </u>	- D	-
	High pressure circ.2:	High pressure circuit 2	U	barg/psig	-999,9	999,9	-	<u> </u>	K	5
	>	High pressure circuit 2 converted to temperature	0	°C/°F	-999,9	999,9	1	A	R	4
He13	Master AIN test	Prove type description	0	-	0	9	0: NTC	l	-	
	B7= -> 0-1000						1: PT1000			
							2: 0-1V			
	1				1	1	3: 0-10V	\neg		1
				1	1		4: 0-20mA	$\overline{}$		
	1				1	1				
	1				1	1	5: On/Off			
				1	1		6: 0-5V			1
					<u></u>		7: 4-20mA			
	Force to:	Value to force the low pressure circuit 2 probe	0	-	0	1000		1	-	
	Low pressure circ.2:	Low pressure circuit 2	0	barg/psig	-999,9	999,9		Ti I	R	11
	->	Low pressure circuit 2 converted to temperature	n	°C/°F	-999,9	999,9		Δ	R	12
He14	Master AIN test	Value to force the outlet water evaporator 2 temperature probe	<u>, </u>	4 '	0	1000	L		Ë	+
11014	B8= NTC -> 0-1000 Force to:	value to force the outlet water evaporator 2 temperature probe	ľ		U	1000		ľ		
		Outlet water a consister 2 terms and un		0C/0F	000.0	000.0	+			20
	Outlet water evap.2 temperature:	Outlet water evaporator 2 temperature	U	°C/°F	-999,9	999,9		A	K	20
He15	Master AIN test	Value to force the external temperature probe	0	H	0	1000	-	ļ	F	-
	B8= NTC -> 0-1000 Force to:			1	<u> </u>					\perp
_	External temperature:	External temperature	0	°C/°F	-999,9	999,9	<u> </u>	A	R	28
He16	Master AIN test	Value to force the external temperature probe	0		0	1000			-	-
	B9= NTC -> 0-1000 Force to:	· · ·	1	1	1			l		1
	•	•		-	•	•	*			



	Estamal tamanaraturas	Estamel town continue	lo	0.00	0000	000.0	ī	I _A	ln.	ho
He17	External temperature:	External temperature	0	°C/°F	-999,9	999,9	-	A	K	28
He17	Master AIN test B10= NTC -> 0-1000 Force to:	Value to force the inlet water condensator temperature probe	0		0	1000		I		
	Inlet water cond. temperature:	Inlet water condensator temperature	0	°C/°F	-999,9	999,9		Δ	R	27
He18	Master AIN test	Value to force the outlet water condensator 1 temperature probe	0	-	0,000	1000	<u></u>	1		
11010	B10= NTC -> 0-1000 Force to:	value to force the odder water condensator i temperature probe	U		U	1000		ľ		
	Outlet water cond.1 temperature:	Outlet water condensator 1 temperature	0	°C/°F	-999,9	999,9		A	R	23
He19	Slave AIN test	Prove type description	0		0	9	0: NTC	ì	_	
	B1= -> 0-1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-		1: PT1000	1		
							2: 0-1V			
							3: 0-10V			
							4: 0-20mA			
								-		
							5: On/Off			
							6: 0-5V	4		
	-	Act and at the control of the contro					7: 4-20mA			-
	Force to:	Value to force the high pressure circuit 3 probe	0	-	0	1000			-	
	High pressure circ.3:	High pressure circuit 3	0	barg/psig	-999,9	999,9		A	R	5
	->	High pressure circuit 3 converted to temperature	0	°C/°F	-999,9	999,9		A	R	6
He20	Slave AIN test	Prove type description	0	-	0	9	0: NTC	l	-	-
	B2= -> 0-1000						1: PT1000			
							2: 0-1V			
							3: 0-10V			
							4: 0-20mA			
							5: On/Off			
							6: 0-5V			
							7: 4-20mA			
	Force to:	Value to force the low pressure circuit 3 probe	0	_	0	1000		i	-	_
	Low pressure circ.3:	Low pressure circuit 3	0	barg/psig	-999,9	999,9		A	R	13
	· ->	Low pressure circuit 3 converted to temperature	0	°C/°F	-999,9	999,9		A	R	14
He21	Slave AIN test	Value to force the outlet water condensator 4 temperature probe	0	Ľ.	0	1000		t	L	\vdash
	B4= NTC -> 0-1000 Force to:		Ĩ		ľ	1.230		1		
	Outlet water cond.4 temperature:	Outlet water condensator 4 temperature	0	°C/°F	-999,9	999,9		A	R	26
He22	Slave AIN test	Value to force the outlet water evaporator temperature probe	0		0	1000	<u></u>	t	Ė	É
11022	B5= NTC -> 0-1000 Force to:	Takes to force the outlet water evaporator temperature prope	Ĭ		Ĭ	1000		ľ		
	Outlet water evap. temperature:	Outlet water evaporator temperature	0	°C/°F	-999,9	999,9		۸	D	18
He23	Slave AIN test	Prove type description	0	91	0	0	0: NTC	ı	IX.	10
HEZJ	B6= -> 0-1000	r tove type description	U		U	2	1: PT1000	-		
	50- > 0 1000									
							2: 0-1V	4		
							3: 0-10V			
							4: 0-20mA			
							5: On/Off			
							6: 0-5V			
							7: 4-20mA			
	Force to:	Value to force the high pressure circuit 4 probe	0	_	0	1000		l	-	-
	High pressure circ.4:	High pressure circuit 4	0	°C/°F	-999,9	999,9		A	R	7
	->	High pressure circuit 4 converted to temperature	0	°C/°F	-999,9	999,9		A	R	8
He24	Slave AIN test	Prove type description	0	F	0	9	0: NTC	ı	<u> -</u>	 -
He24	Slave AIN test B7= -> 0-1000	Prove type description	0	-	0	9	0: NTC 1: PT1000	<u> </u>	_	-
He24		Prove type description	0		0	9	1: PT1000	<u> </u>	_	
He24		Prove type description	0		0	9	1: PT1000 2: 0-1V	 - - -	-	-
He24		Prove type description	0	_	0	9	1: PT1000 2: 0-1V 3: 0-10V	_ - - - -	-	-
He24		Prove type description	0		0	9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA	- - - -	_	
He24		Prove type description	0		0	9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off	- - - - -		
He24		Prove type description	0	_	0	9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	- - - - -		
He24	B7= > 0-1000		0		0	9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off	- - - - -		
He24	B7= > 0-1000 Force to:	Value to force the low pressure circuit 4 probe	0		0	1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	-		
He24	B7= > 0-1000	Value to force the low pressure circuit 4 probe Low pressure circuit 4	0 0 0	 °C/°F	0 0 -999,9	999,9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	I I A	 R	 15
	B7= > 0-1000 Force to: Low pressure circ.4: >>	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature	0 0 0	 °C/°F °C/°F	0 0 -999,9 -999,9	999,9 999,9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	I A A	 R R	 15 16
He24	B7= > 0-1000 Force to: Low pressure circ.4: >> Slave AIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4	0 0 0 0 0			999,9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	I A A	 R R	
	Force to: Low pressure circ.4: >> Slave AIN test 88=NTC >> 0-1000 Force to:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe	0 0 0 0 0	°C/°F 	-999,9 0	999,9 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V		 R R	16
He25	Force to: Low pressure circ.4: >> Slave AIN test 88= NTC >> 0-1000 Force to: Outlet water evap.4 temperature:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature	0 0 0 0 0 0 0 0 0			999,9 999,9 1000 999,9	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	I I A A	 R R	
	Force to: Low pressure circ.4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe	0 0 0 0 0 0 0 0 0	°C/°F 	-999,9 0	999,9 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V		 R R	16
He25	B7= >> 0-1000 Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F 	-999,9 0 -999,9	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V			16 22
He25	Force to: Low pressure circ.4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V	I A A I		16 22 24
He25 He26	Force to: Low pressure circ.4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F 	-999,9 0 -999,9	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20MA 5: On/Off 6: 0-5V 7: 4-20MA		R R	16 22
He25	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC >> 0-1000 Force to: Outlet water ord. Temperature: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE	I A A I A A D D	R R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN		R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC >> 0-1000 Force to: Outlet water ord. Temperature: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases)	0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE	I A A I A A D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test B8=NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10=NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D	R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE		R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC >> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D D		16 22 24
He25 He26	Force to: Low pressure circ.4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE	D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC >> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC >> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE	D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test 810= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D D		16 22 24
He25 He26 He27	Force to: Low pressure circ.4: >> Slave AIN test B8=NTC > 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10-NTC > 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27	Force to: Low pressure circ.4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27 He28	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 5 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test 810- NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D D D D		16 22 24
He25 He26 He27 He28	Force to: Low pressure circ.4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10- NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.1 circ.1:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (if unit 4 circuit 2 evaporator) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 6 master board Test DIN 7 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27 He28	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test 810- NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 5 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27 He28 He30	Force to: Low pressure circ 4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 7 master board Test DIN 8 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27 He28	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (if unit 4 circuit 2 evaporator) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 6 master board Test DIN 7 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D		16 22 24
He25 He26 He27 He28 He30	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test 810= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 8 master board Test DIN 9 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN 0: CLOSE 1: OPEN	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 8 9
He25 He26 He27 He28 He30	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 7 master board Test DIN 8 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D		16 22 24 25 1 2 3 4 5 6 7 8 8 9 10
He25 He26 He27 He28 He30	Force to: Low pressure circ 4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 07= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 8 master board Test DIN 9 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 8 9
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board Test DIN 10 master board Test DIN 10 master board Test DIN 10 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 9 10 11
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ 4: -> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 07= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 5 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 8 9 10
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board Test DIN 10 master board Test DIN 10 master board Test DIN 10 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D		16 22 24 25 1 2 3 4 5 6 7 8 9 10 11
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ.4: -> Slave AIN test 88= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water cond. Temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 07= Ovrl.cmp.2 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board Test DIN 10 master board Test DIN 10 master board Test DIN 10 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 9 10 11
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ.4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Waster DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: 08= Serious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: 10= Low press.circ.2: 11= Ovrl.cmp.1 circ.2: 11= Ovrl.cmp.1 circ.2:	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board Test DIN 10 master board Test DIN 10 master board Test DIN 10 master board Test DIN 11 master board Test DIN 11 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D	R R R R R R R R R R R R R R R R R R R	16 22 24 25 1 2 3 4 5 6 7 8 9 10 11 12
He25 He26 He27 He28 He30 He31	Force to: Low pressure circ 4: >> Slave AIN test B8= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Slave AIN test B10= NTC -> 0-1000 Force to: Outlet water evap.4 temperature: Master DIN test 01= High press.circ.1: 02= Low press.circ.1: Master DIN test 03= Remote On-Off: 04= Cooling/Heating: Master DIN test 05= Evap.water flow: 06= Ovrl.cmp.1 circ.1: Master DIN test 09= Ferious alarm: Master DIN test 09= High press.circ.2: 10= Low press.circ.2: Master DIN test 11= Ovrl.cmp.1 circ.2: 12= Ovrl.cmp.2 circ.2: Master DIN test	Value to force the low pressure circuit 4 probe Low pressure circuit 4 Low pressure circuit 4 converted to temperature Value to force the outlet water evaporator 4 temperature probe Outlet water evaporator 4 temperature Value to force the outlet water condensator temperature probe Outlet water condensator 2 temperature (if unit 4 circuit 2 evaporator) Outlet water evaporator 3 temperature (all other cases) Test DIN 1 master board Test DIN 2 master board Test DIN 3 master board Test DIN 4 master board Test DIN 6 master board Test DIN 7 master board Test DIN 8 master board Test DIN 9 master board Test DIN 9 master board Test DIN 10 master board Test DIN 10 master board Test DIN 10 master board Test DIN 11 master board Test DIN 11 master board		°C/°F °C/°F °C/°F	-999,9 0 -999,9 0	999,9 999,9 1000 999,9 1000	1: PT1000 2: 0-1V 3: 0-10V 4: 0-20mA 5: On/Off 6: 0-5V 7: 4-20mA	D D D D D D D D D D D D D D D D D D D		16 22 24 25 1 2 3 4 5 6 7 8 9 10 11 12



	13= Ovrl.evap.pump 1:	I	ı	ı	ı	İ	1: OPEN	1		1
	14= Cond.water flow:	Test DIN 14 master board	0		0	1	0: CLOSE	D	R	14
							1: OPEN			ļ
He35	Master DIN test 13= Ovrl.evap.pump 1:	Test DIN 13 master board	0		0	1	0: CLOSE 1: OPEN	D	R	13
	14= Ovrl.evap.pump 2:	Test DIN 14 master board	0		0	1	0: CLOSE	D	R	14
Harc	Martin DINI tart	Test DIN 15 master board				,	1: OPEN		D	15
He36	Master DIN test 15= Ovrl.cmp.3 circ.1:	lest DIN 15 master board	0		0		0: CLOSE 1: OPEN	U	R	15
	16= Ovrl.cmp.3 circ.2:	Test DIN 16 master board	0	-	0	1	0: CLOSE	D	R	16
He37	Master DIN test	Test DIN 17 master board	0		0	1	1: OPEN 0: CLOSE	D	D	17
пез/	17= Cond.water flow:	Test DIN 17 Master Dodiu	U		U		1: OPEN	, , , , , , , , , , , , , , , , , , ,	IV.	17
He38	Slave DIN test	Test DIN 1 slave board	0		0	1	0: CLOSE	D	-	-
	01= High press.circ.3: 02= Low press.circ.3:	Test DIN 2 slave board	0		0	1	1: OPEN 0: CLOSE	D		<u>_</u>
	02— EOW pressures.	TOSE DITY 2 Stave Doubt	Ü		O		1: OPEN			
He39	Slave DIN test 06= Ovrl.cmp.1 circ.3:	Test DIN 6 slave board	0		0	1	0: CLOSE	D		
	07= Ovrl.cmp.2 circ.3:	Test DIN 7 slave board	0	_	0	1	1: OPEN 0: CLOSE	D		┢
	·						1: OPEN			
He40	Slave DIN test 09= High press.circ.4:	Test DIN 9 slave board	0		0	1	0: CLOSE 1: OPEN	D		
	10= Low press.circ.4:	Test DIN 10 slave board	0	_	0	1	0: CLOSE	D		
							1: OPEN			
He41	Slave DIN test	Test DIN 11 slave board	0		0	1	0: CLOSE	D		F
	11= Ovrl.cmp.1 circ.4:						1: OPEN			ļ
	12= Ovrl.cmp.2 circ.4:	Test DIN 12 slave board	0		0	1	0: CLOSE 1: OPEN	D		
He42	Slave DIN test	Test DIN 13 slave board	0		0	1	0: CLOSE	D		_
	13= Ovrl.evap.pump 2:						1: OPEN			
He43	Slave DIN test	Test DIN 15 slave board	0		0	1	0: CLOSE	D		_
	15= Ovrl.cmp.3 circ.3:						1: OPEN			ļ
	16= Ovrl.cmp.3 circ.4:	Test DIN 16 slave board	0		0	1	0: CLOSE	D		
He44	Master DOUT test	Test DOUT 1 master board	0		0	1	1: OPEN 0: OPEN	D	R	18
	01= Comp.1 circ.1:	Test Boot Villasta Bootd	Ŭ				1: CLOSE	ĺ		
	02= Comp.2 circ.1:	Test DOUT 2 master board	0		0	1	0: OPEN	D	R	19
							1: CLOSE			ļ
He45	Master DOUT test 03= Comp.1 circ.2:	Test DOUT 3 master board	0		0	1	0: OPEN 1: CLOSE	D	R	20
	04= Comp.2 circ.2:	Test DOUT 4 master board	0		0	1	0: OPEN	D	R	21
							1: CLOSE			
He46	Master DOUT test	Test DOUT 5 master board	0		0	1	0: OPEN	D	R	22
	05= Cond.fan group 1:						1: CLOSE			<u> </u>
	06= Cond.fan group 2:	Test DOUT 6 master board	0		0	1	0: OPEN 1: CLOSE	D	R	23
He47	Master DOUT test	Test DOUT 5 master board	0		0	1	0: OPEN	D	R	22
	05= Condensing pump 1:						1: CLOSE			
	06= Condensing pump 2:	Test DOUT 6 master board	0		0	1	0: OPEN	D	R	23
			_		_		1: CLOSE		_	<u> </u>
He48	Master DOUT test 07= Antifreeze heater:	Test DOUT 7 master board	0		0	1	0: OPEN 1: CLOSE	D	R	24
	08= Serious alarm:	Test DOUT 8 master board	0		0	1	0: OPEN	D	R	25
							1: CLOSE			
He49	Master DOUT test	Test DOUT 9 master board	0		0	1	0: OPEN	D	R	26
	09= Evaporator pump 1:						1: CLOSE			
He50	Master DOUT test 10= Liquid solenoid 1:	Test DOUT 10 master board	0		0	1	0: OPEN 1: CLOSE	D	R	27
	11= Liquid solenoid 2:	Test DOUT 11 master board	0		0	1	0: OPEN	D	R	28
	4						1: CLOSE			
He51	Master DOUT test	Test DOUT 12 master board	0	-	0	1	0: OPEN	D	R	29
	12= 4Way valve circ.1:	Test POUT 17 moster hourd	0		0	1	1: CLOSE	D	n	70
	13= 4Way valve circ.2:	Test DOUT 13 master board	U	_	U		0: OPEN 1: CLOSE	Ŋ	К	30
He52	Master DOUT test	Test DOUT 14 master board	0	_	0	1	0: OPEN	D	R	31
	14= Comp.3 circ.1:						1: CLOSE			
	15= Comp.3 circ.2:	Test DOUT 15 master board	0		0	1	0: OPEN	D	R	32
11.57	Marker DOUT hark	T. d DOUT 16 weeks hard				,	1: CLOSE		D	7.7
He53	Master DOUT test 16= Evaporator pump 2:	Test DOUT 16 master board	U		0		0: OPEN 1: CLOSE	ľ	K	33
He54	Slave DOUT test	Test DOUT 1 slave board	0		0	1	0: OPEN	D		_
	01= Comp.1 circ.3:		<u>L</u>				1: CLOSE	L	L	L
	02= Comp.2 circ.3:	Test DOUT 2 slave board	0		0	1	0: OPEN	D		
	CL DOUT						1: CLOSE			<u> </u>
He55	Slave DOUT test 03= Comp.1 circ.4:	Test DOUT 3 slave board	0		0		0: OPEN 1: CLOSE	υ	-	-
	04= Comp.2 circ.4:	Test DOUT 4 slave board	0		0	1	0: OPEN	D		<u> </u>
			Ī		<u> </u>		1: CLOSE	ſ		
He56	Slave DOUT test	Test DOUT 9 slave board	0		0	1	0: OPEN	D		F
	09= Evaporator pump 2:	r (Pourse)					1: CLOSE			<u> </u>
He57	Slave DOUT test 10= Liquid solenoid 3:	Test DOUT 10 slave board	0	-	0]1	0: OPEN	D		-
	1		1	<u> </u>	I	<u> </u>	1: CLOSE	1	<u> </u>	Щ_



	11= Liquid solenoid 4:	Test DOUT 11 slave board		0		-	0	1	0: OPEN 1: CLOSE	D	_	_
He58	Slave DOUT test 12= 4Way valve circ.3:	Test DOUT 12 slave board		0			0	1	0: OPEN	D	_	_
	13= 4Way valve circ.4:	Test DOUT 13 slave board		0		_	0	1	1: CLOSE 0: OPEN	D	_	
He59	Slave DOUT test	Test DOUT 14 slave board		0			0	1	1: CLOSE 0: OPEN	D		
	14= Comp.3 circ.3:								1: CLOSE	_		
	15= Comp.3 circ.4:	Test DOUT 15 slave board		0		-	0	1	0: OPEN 1: CLOSE	D	_	
He60	Master AOUT test Y1= Cond.fan group 1:	Test AOUT 1 master board		0			0	1000		l	R	92
	Y2= Cond.fan group 2:	Test AOUT 2 master board		0			0	1000			R	93
Quick m	enu	1			 		 				 	
M01	HP1: ->	High pressure circuit 1 High pressure circuit 1 converted to temperature	0	barg/psig °C/°F	0	99,9	999,9 999,9			A A	R	1
	LP1:	Low pressure circuit 1	0	barg/psig	0		999,9			A	R	9
	-> Comp1:	Low pressure circuit 1 converted to temperature Compressor 1 circuit 1 current status	0	°C/°F	-99	99,9	999,9 14	0: Off		A	R	10
	Compr.	Compressor i circuit i current status			U		14	1: Start-up		ľ		
								2: On				
								3: Stage 2 4: Stage 3				
								4: Stage 3				
								5: Stage 4 6: Force off				
								7: Limit to stage	1		_	
								8: Limit to stage				
								9: Limit to stage 10: Off by alarm			_	_
								11: Off				
								12: On waiting s 13: Manual mod			<u>-</u>	
								14: On by pump				
	Off waiting Comp2:	Compressor 1 circuit 1 minimum time off count down time Compressor 2 circuit 1 current status	_	S	0		999 14	0: Off		1		
	Compz.	Compressor 2 circuit i current status			Ü		17	1: Start-up		ľ		
								2: On				
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								5: Stage 4			_	
								6: Force off 7: Limit to stage	1			
								8: Limit to stage	2			
								Limit to stageOff by alarm				
								11: Off				
								12: On waiting s 13: Manual mod				
								14: On by pump			_	
	Off waiting Comp3:	Compressor 2 circuit 1 minimum time off count down time Compressor 3 circuit 1 current status		S	0		999 14	 0: Off		l		
	Comps.	Compressor 3 circuit i current status			U		14	1: Start-up		ľ		
								2: On				
								3: Stage 2 4: Stage 3				
								5: Stage 4				
								6: Force off 7: Limit to stage	1			
								8: Limit to stage	2			
								Limit to stageOff by alarm				
								11: Off				
								12: On waiting s 13: Manual mod				
								14: On by pump				
M02	Off waiting HP2:	Compressor 3 circuit 1 minimum time off count down time High pressure circuit 2		s barg/psig	0		999 999,9			Δ	 P	1
IVIUZ	->	High pressure circuit 2 High pressure circuit 2converted to temperature	0	°C/°F	-99	99,9	999,9			A	R	2
	LP2: ->	Low pressure circuit 2	0	barg/psig °C/°F	0	20.0	999,9	1		A	R	9
	-> Comp1:	Low pressure circuit 2 converted to temperature Compressor 1 circuit 2 current status	U 		-99	99,9	999,9 14	0: Off		l I		10
								1: Start-up			_	
								2: On 3: Stage 2				
								4: Stage 3			_	
								5: Stage 4 6: Force off				
								6: Force oπ 7: Limit to stage	1		Ē	Ē
								8: Limit to stage	2		_	
								Limit to stageOff by alarm			<u> </u>	
								11: Off				
								 On waiting s Manual mod 				
								14: On by pump			_	
	Off waiting Comp2:	Compressor 1 circuit 2 minimum time off count down time Compressor 2 circuit 2 current status		S	0		999 14	 0: Off				
	compe.	compressor 2 circuit 2 current status		<u></u>			Ľ	1: Start-up		<u> </u>		
										-		



				I	ĺ	Ī	2: On	Ī	L 1	
							3: Stage 2	1		
								ł		
							4: Stage 3	ł		
							5: Stage 4	ł	_	
							6: Force off	ļ		
							7: Limit to stage 1		_	
							8: Limit to stage 2	1	-	
							9: Limit to stage 3		-	
							10: Off by alarm	1		_
							11: Off	1		
							12: On waiting s	ł		
								ł		
							13: Manual mode	l		
							14: On by pump-down		_	
	Off waiting	Compressor 2 circuit 2 minimum time off count down time		S	0	999		l	-	
	Comp3:	Compressor 3 circuit 2 current status			0	14	0: Off	l		
							1: Start-up	1		
							2: On	i		
							3: Stage 2	ł		
								ł		
							4: Stage 3	ł		
							5: Stage 4			
							6: Force off	1		
							7: Limit to stage 1			
							8: Limit to stage 2	1		
							9: Limit to stage 3	1		
							10: Off by alarm	ł		
								ł		
							11: Off	ł		
							12: On waiting s			
							13: Manual mode			
							14: On by pump-down			
	Off waiting	Compressor 3 circuit 2 minimum time off count down time		s	0	999			_	
M03	HP3:	High pressure circuit 3	0	barg/psig	0	999,9		Α	R	1
	->	High pressure circuit 3 converted to temperature	0	°C/°F	-999,9	999,9		Ā	R	2
			0		-999,9			^	Λ.	2
	LP3:	Low pressure circuit 3	0	barg/psig	0	999,9		A	R -	9
	>	Low pressure circuit 3 converted to temperature	0	°C/°F	-999,9	999,9		A	R	10
	Comp1:	Compressor 1 circuit 3 current status			0	14	0: Off	ļI .		-
							1: Start-up	1	_	_
							2: On	1		
							3: Stage 2	ł		
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							4: Stage 3	ļ	-	
							5: Stage 4		-	
							6: Force off			_
							7: Limit to stage 1	1	_	
							8: Limit to stage 2	1	_	
							9: Limit to stage 3	ł		
								ł		
							10: Off by alarm	ł		
							11: Off			
							12: On waiting s		-	
							13: Manual mode	1		_
							14: On by pump-down	i		
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	Off waiting	Compressor 1 circuit 3 minimum time off count down time	_	ς	n	999				
	Off waiting	Compressor 1 circuit 3 minimum time off count down time		s	0	999	0: Off	l	_	
	Off waiting Comp2:	Compressor 1 circuit 3 minimum time off count down time Compressor 2 circuit 3 current status		s 	0	999 14	o: Off	l		
	- ·			S 	0		1: Start-up	1	-	
	- ·			S 	0		1: Start-up 2: On	I I	 	
	- ·			S 	0		1: Start-up	1	 	
	- ·			S 	0		1: Start-up 2: On	1		
	- ·			S	0		1: Start-up 2: On 3: Stage 2 4: Stage 3	1		
	- ·			5	0		1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4	1		
	- ·			S	0		1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off	1		
	- ·			5	0		1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1	1		
	- ·			5	0		1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2	1		
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	Comp2:	Compressor 2 circuit 3 current status		5	0	14	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down			
	Comp2:	Compressor 2 circuit 3 current status		S	0 0	14	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		5	0 0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2			
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	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 1			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0 0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2			
	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		5	0 0 0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down — 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 3 10: Off by alarm			
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	Comp2:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time		S	0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1			
	Off waiting Comp3:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status		S	0 0 0	999	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 15: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2			
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M04	Off waiting Comp3:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status	 0	s s barg/psig	0 0 0	999 14 999 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1	I I A		
M04	Off waiting Comp3: Off waiting HP4:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 minimum time off count down time High pressure circuit 4 High pressure circuit 4 High pressure circuit 4 High pressure circuit 4 High pressure circuit 4		°C/°F	0 0 0 0 999,9	999 14 999 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1	I I I I A A		
M04	Off waiting Comp3:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 minimum time off count down time High pressure circuit 4 High pressure circuit 4 Low pressure circuit 4 Low pressure circuit 4		°C/°F barg/psig	0 0 0 0 0 0 0 -999,9 0	999 114 999 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1	I I I A A A		
M04	Off waiting Comp3: Off waiting HP4:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 minimum time off count down time High pressure circuit 4 High pressure circuit 4 Low pressure circuit 4 Low pressure circuit 4		°C/°F	0 0 0 0 0 0 -999,9 0	999 14 999 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1	I I A A A A A A A A A		
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down	I I I A A A A A A A A A A A A A A A A A		
M04	Off waiting Comp3: Off waiting HP4: ->- LP4:	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 minimum time off count down time High pressure circuit 4 High pressure circuit 4 Low pressure circuit 4 Low pressure circuit 4		°C/°F barg/psig	0	999 114 999 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down — 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 2 4: Stage 3 6: Force off 7: Limit to stage 1 8: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 15: Start-up 16: Off 17: Limit to stage 1 17: Limit to stage 1 18: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down — — — — — — — — — — — — — — — — — — —	I I I A A A A A I I		
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 1 8: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 12: Start-up 13: Manual mode 14: On by pump-down 0: Off 15: Start-up	I I A A A A A A A I I		
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 7: Limit to stage 3 10: Off by alarm 11: Off 11: Start-up 2: On 2: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 11: Start-up 2: On	I I A A A A A I I	R R R R R R R R R R R R R R R R R R R	
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Stage 1 8: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2	I I I A A A A A I I		
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 7: Limit to stage 3 10: Off by alarm 11: Off 11: Start-up 2: On 2: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 11: Start-up 2: On	I I A A A A A A I I		
M04	Off waiting Comp3: Off waiting HP4: >-> LP4: >->	Compressor 2 circuit 3 current status Compressor 2 circuit 3 minimum time off count down time Compressor 3 circuit 3 current status Compressor 3 circuit 3 current status Compressor 4 circuit 4 current status		°C/°F barg/psig	0	999 14 999 999,9 999,9 999,9 999,9	1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2 4: Stage 3 5: Stage 4 6: Force off 7: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Stage 1 8: Limit to stage 1 8: Limit to stage 2 9: Limit to stage 3 10: Off by alarm 11: Off 12: On waiting s 13: Manual mode 14: On by pump-down 0: Off 1: Start-up 2: On 3: Stage 2	I I A A A A A A I I	R R R	



									. —	
							6: Force off			
							7: Limit to stage 1			
							8: Limit to stage 2			
							9: Limit to stage 3			_
							10: Off by alarm			_
							11: Off			
										_
							12: On waiting s			
							13: Manual mode			
							14: On by pump-down			
	Off waiting	Compressor 1 circuit 4 minimum time off count down time		S	0	999		I		
	Comp2:	Compressor 2 circuit 4 current status			0	14	0: Off	I		
		·					1: Start-up		_	_
							2: On	1		
							3: Stage 2			
							4: Stage 3			_
							5: Stage 4			
							6: Force off			
							7: Limit to stage 1		_	
							8: Limit to stage 2			
							9: Limit to stage 3			
							10: Off by alarm			
							11: Off			_
							12: On waiting s	1		
							13: Manual mode			
							14: On by pump-down			
	O# 3:			+			14: On by pump-down			
	Off waiting	Compressor 2 circuit 4 minimum time off count down time	_	S	0	999		!		
	Comp3:	Compressor 3 circuit 4 current status		[U	14	0: Off	- '	-	_
	1		1	1			1: Start-up	1		Ī
	1		1	1			2: On	1		1
	1		1	1			3: Stage 2]		1
	1		1	1			4: Stage 3	1		1
	1		1	1			5: Stage 4	1		1
	1		1	1			6: Force off	1		1
	1		1	1			7: Limit to stage 1	1		1
	1		1	1			8: Limit to stage 2	1		Ī
							9: Limit to stage 3			
							10: Off by alarm			
							11: Off			
							12: On waiting s			
							13: Manual mode			
							14: On by pump-down			
	Off waiting	Compressor 3 circuit 4 minimum time off count down time		S	0	999		ı		_
M05	Cond.fan set:	Current condenser fan setpoint (CH mode)	0	barg/psig	0	999,9		Α	R	34
		Current condenser fan setpoint (HP mode)		barg/psig	0	999,9		Α	R	36
	Condenser fan 1:	Condenser fan group 1	0	%	0	100		i -	R	92
	Condenser fan 2:	Condenser fan group 2	0	0/0	0	100		i	R	93
	CONDCHIGH Z.			70	U	100				
	Condenser fair 2.	condenser rain group 2	IT.	70	Р	100		·	I.c.	
M06			0		-999.9		<u> </u>	A	R	33
M06	Current set:	Current setpoint	0	°C/°F	-999,9 -999.9	999,9	ļ	A A	R	33
M06	Current set: Regul.temp.:	Current setpoint	0		-999,9 -999,9	999,9 999,9		A A	R 	33
M06	Current set:	Current setpoint Steps required	0 0	°C/°F		999,9 999,9 99		A A I	R 	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number	0 0 0	°C/°F		999,9 999,9		A A I	R	33
M06	Current set: Regul.temp.:	Current setpoint Steps required	0 0 0 0	°C/°F		999,9 999,9 99	0:	A A I I D	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A	0 0 0 0 0 0	°C/°F °C/°F 	-999,9 0 0 0	999,9 999,9 99 99	0; 1: .a	A A I I D	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F K/°F	-999,9 0 0 0 -72.0	999,9 999,9 99 99 1 1 324.0		A A I I D	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A	0 0 0 0 0 0	°C/°F °C/°F 	-999,9 0 0 0	999,9 999,9 99 99 1 1 324.0 392.0		A A I I D	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A	0.0	°C/°F °C/°F K/°F	-999,9 0 0 0 -72.0 -76.0	999,9 999,9 99 99 1 1 324.0 392.0 9999		A I I D	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A		°C/°F °C/°F K/°F	-999,9 0 0 0 -72.0	999,9 999,9 99 99 1 1 324.0 392.0		A A I I I I I I I I I I I A A	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9		A A I I I I I I I I I I A A Δ	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A	0.0	°C/°F °C/°F K/°F	-999,9 0 0 0 -72.0 -76.0	999,9 999,9 99 99 1 1 324.0 392.0 9999	1: .a	A A I I I D I I A A	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0:	A A I I I I A A A	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1:.a 0: 1: Close	A A I I I I I I A A A	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 1: Close 2: Close	A A I I I I I A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 1: Close 2: Close 3: Std-by	A A I I I I I A A A	R	33
	Current set: Regul.temp.:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos	A A I I I D I I A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos	A A I I I I I I A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait	A A I I I I I A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On	A A I I I D A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait	A A I I I D I I A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On	A A I I I I I A A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On	A A I I I I I I I A A A	R R R R R R R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On	A A I I I D A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On	A A I I I I I I A A A A	R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 1 324.0 392.0 9999 99.9	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On	A A I I I I I A A A A	R R R R R R R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 9999 99.9 2900.0	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On	A A I I I I A A	R R R R R R R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A	0.0	°C/°F K/°F °C/°F/V Psig/barg/mA	-999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 9999 99.9 2900.0	1: .a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On	I I I A A	 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A	0.0	°C/°F °C/°F K/°F °C/°F/V	-999,9 0 0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 9999 99.9 2900.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init		R	33
	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A	0.0	°C/°F K/°F °C/°F/V Psig/barg/mA	-999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 9999 99.9 2900.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:	I I I A A	 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A	0.0 0 0.0 0	°C/°F	-999,9 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 324.0 392.0 9999 99.9 2900.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat	0.0 0 0.0 0 0 0	°C/°F 'C-'	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 9999 99.9 2900.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure - Valve A EVD status Evaporation temperature - valve A Twin valve B Superheat Sunction temperature – valve B	0.0 0 0.0 0	°C/°F	-999,9 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 14 392.0 1 324.0 392.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure - Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F 'C-'	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 14 392.0 1 324.0 392.0 9999	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure - Valve A EVD status Evaporation temperature - valve A Twin valve B Superheat Sunction temperature – valve B	0.0 0 0.0 0 0 0	°C/°F 'C-'	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 14 392.0 1 324.0 392.0	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0 -176.0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a 0: 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure - Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F 'C-'	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 14 392.0 1 324.0 392.0 9999	1:.a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0:		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0 -176.0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required:	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0 -176.0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0: 1: .b		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0 -176.0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0 -176.0 0 -72.0 -76.0 0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0: 1: .b		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1:.a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 0: 1: b 1: Close 2: Close 3: Std-by 4: Pos 5: Pos		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1: .a 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait 7: On 8: On 9: On 10: On 11: On 12: On 13: On 14: Init 1: Close 2: Close 3: Std-by 4: Pos 5: Pos 6: Wait		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1: .a		 R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure - Valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent Evaporation pressure – Valve B EVD status EVD	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 324.0 392.0 1 324.0 392.0 99.9 2900.0	1:.a		R R R R R R R R R R R R R R R R R R R	33
M07	Current set: Regul.temp.: Steps required: Circ.1	Current setpoint Steps required Total steps number Twin valve A Superheat Sunction temperature – valve A EEV position – valve A Valve A opening percent Evaporation pressure – Valve A EVD status Evaporation temperature – valve A Twin valve B Superheat Sunction temperature – valve B EEV position – valve B Valve B opening percent	0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0	°C/°F °C/°F	999,9 0 0 0 -72.0 -76.0 0 0.0 -290.0	999,9 999,9 99 99 1 1 324.0 392.0 99.9 2900.0 1 4 392.0 1 324.0 392.0 99.9 99.9	1: .a		 R R R R R R	33

\sim A D	ırı								EN	C
CAR	<u>(EL</u>	ı	I	1	1	İ	10: On	Ī	4	9
							11: On			
							12: On			
							13: On			
							14: Init			
		Evaporation temperature - Valve B	0	°C/°F	-76.0	392.0		A	R	
109		Twin valve A	0	-	0	1	0:	D	R	
							1: .a			
		Superheat	0.0	K/ºF	-72.0	324.0			R R	-
		Sunction temperature – valve A EEV position – valve A	0.0	°C/°F/V	-76.0	392.0 9999			K D	+
		Valve A opening percent	0.0		0.0	99.9		Δ	R	\equiv
		valve A opening percent	0.0			99.9		А	K	_
		Evaporation pressure - Valve A	0	Psig/barg/mA	- 290.0	2900.0		A	R	
							0:			
							1: Close	ļ		
							2: Close	Į.		
	Circ.3						3: Std-by	ļ		
	Circo						4: Pos	ļ		
							5: Pos	ļ		
							6: Wait	ł		
							7: On			
							8: On 9: On			
								ł		
						Ì	10: On 11: On	1		1
						Ì	12: On	1		1
							13: On	ĺ		1
		EVD status	0		1	14	14: Init	l,	R	
		Evaporation temperature - Valve A	0	°C/°F	-76.0	392.0	14. mit	A	R	+
	1		0		0	1	0:	D.	R R	Ė
110		Twin valve B	U			[0 1: .b	ľ	,	1
		Superheat	0.0	K/ºF	-72.0	324.0		<u> </u>	R	+-
		Sunction temperature – valve B	0.0	°C/°F/V	-76.0	392.0		i –	R	_
		EEV position – valve B	0.0		0	9999		i –	R	
		Valve B opening percent	0.0		0.0	99.9		A	R	_
			0.0							+
		Evaporation pressure - Valve B	0	Psig/barg/mA	- 290.0	2900.0		A	R	
							0:			
							1: Close			
							2: Close			
	Circ. 4						3: Std-by			
	Circ.4						4: Pos			
							5: Pos			
							6: Wait			
							7: On	ļ		
							8: On	ļ		
							9: On	ļ		
							10: On	l		
							11: On	l		
							12: On	l		
		T/D					13: On	! .		
		EVD status	0	00.00	70.0	14	14: Init		R	+
	D.f. d.	Evaporation temperature - Valve B	0	°C/°F	-76.0	392.0	 0. NO	A	R	+
nanual_ NG	_ Defrost:		O		0	ľ	0: NO	D		
	AUTIALIZATION COMPLETE						1: YES			
n_End_L fault	INITIALIZATION COMPLETE switch off and back on		O		0	ľ	0: 1: -> Master controller	D		
iauit	SWILLII OII AIIU DACK OII		0	-	0	,	0:	D		+
			U	-	U	ľ		D		
			-	+	-	-	1: -> Slave controller 0: COMPLETE	-	 	+
			0	_	0	1	0: COMPLETE 1:	D	-	-
			-	+	-	-	0: Switch-off and back on	 	 	+
			0	-	0	1	1: EVD EVO default running	D	<u>-</u>	-
n_Main	 	Current day	1	1	1	31			_	
		Current month	li li		i	12	1		1	
		Current year	n	-	0	99	1		1	
		Current hour	0	h	0	23	1	<u> </u>	1	
		Current minute	0	1-	0	59	1		1	
	In.Evap.:	Regulation temperature probe		°C/°F	-999,9	999,9		A		†
	or	, ,		1	1					
	Out.Eva.:									
	or In Cond						1	1	1	
	In.Cond.:	main probe of the unit		°C/°F	-999,9	000.0	1	A		+
	In.Evap.: or	main probe of the unit		4 1	-999,9	999,9		Λ.	Г	
	Out.Eva.:									1
	C1:	Compressor 1 circuit 1 status	0		0	9	Compressor ON		<u> </u>	+
		,	Ĭ				Compressor OFF	1	1	
						1	Compressor forced off	1		1
						1	Compressor limited	1		1
							⚠ Compressor in alarm	1		1
							(lampeggiante): Comp. wait for switch on	1		1
							(lampeggiante): Comp. wait for switch off	ĺ		1
		Compressor 2 circuit 1 status	0	1	0	9	Compressor ON	 	<u> </u>	
		compressor 2 circuit i status	ľ			ľ	Compressor OFF	ľ		1
						1	Compressor forced off	ĺ		1
						1	Compressor limited	ĺ		1
							Compressor in alarm	1		1
							(lampeggiante): Comp. wait for switch on	ĺ		1
							(lampergianta): Comp. with for switch on	1	1	
		Compressor 7 sire it 1 status		1	0	0	(lampeggiante): Comp. wait for switch off	<u> </u>	1	+
	1	Compressor 3 circuit 1 status	U		U	9	Compressor ON	ľ		Г
							Compressor OFF			

CAREL Compressor forced off Compressor limited ⚠ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor 1 circuit 2 status Compressor ON Compressor OFF Compressor forced off Compressor limited △ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor 2 circuit 2 status Compressor ON Compressor OFF Compressor forced off Compressor limited ⚠ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor 3 circuit 2 status Compressor ON Compressor OFF Compressor forced off Compressor limited Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor ON Compressor 1 circuit 3 status ○ Compressor OFF

○ Compressor forced off Compressor limited ⚠ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor 2 circuit 3 status Compressor ON Compressor OFF Compressor forced off Compressor limited ⚠ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor 3 circuit 3 status Compressor ON Compressor OFF Compressor forced off Compressor limited ⚠ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Ompressor ON Compressor 1 circuit 4 status Compressor OFF Ompressor forced off Compressor limited (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor ON Compressor 2 circuit 4 status Compressor OFF Ompressor forced off Compressor limited △ Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off Compressor ON Compressor 3 circuit 4 status Compressor OFF Ompressor forced off Compressor limited Compressor in alarm (lampeggiante): Comp. wait for switch on (lampeggiante): Comp. wait for switch off

Manufacturer password	Insert manufacturer password(PW2):	Manufacturer password PW2: if the password inserted is wrong then the message "Password wrong!" appear	0		0	9999		I		
Service password	Insert service password (PW1):	Service password PW1: if the password inserted is wrong then the message "Password wrong!" appear	0	-	0	9999		l	-	
M_UM_Confirm	PAY ATTENTION Current temperature and press parameters will be overwritten with default values Go ahead:	Warning mask: it appear when the unit of measure changed, in order to advise the user that all the current temperature and press.parameters will be overwritten with default values	0	_	0	1	0: NO	D		

2: alarm
3: net
4: supervisor
5: scheduler
6: digit input
7: keyboard
8: manual mode

Unit status

Unit off by



8. VARIABLES SENT TO THE SUPERVISOR

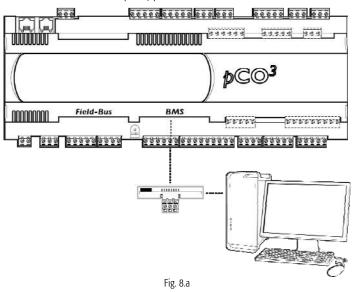
Chiller Core can be connected to various supervisory systems, using the following BMS communication protocols: Carel and Modbus. A BMS serial port serial port is used for the connection.

The various connection protocols are managed using the following optional cards:

• Carel RS485: code PCOS004850 (see Fig. 8.a)

• Modbus RS485: code PCOS004850 (see Fig. 8.a)

The following figure shows the connection diagram of the BMS serial card to the pCO3 / pCO5.



The table below shows the variables sent to the supervisor.

Table of variables sent to the supervisor, with corresponding addresses.

8.1 Supervisor parameters table

Analog variables

Ind. CAREL	Ind. Modbus	Mask Index	Description	Def.	иом	Min	Max	R/W	Variable name
1	1	M01, D02, He02	High pressure circuit1	-	barg/psig	-3276,8	3276,7	R/W	Ain_High_Press_Circ1
)	2	M01, D02, He02	High pressure circuit 1 converted to temperature		°C/°F	-3276,8	3276,7	R	High_Press_Circ1_Conv
	3	M02, He12, D08	High pressure circuit2		barg/psig	-3276,8	3276,7	R	Ain_High_Press_Circ2
	4	M02, He12, D08	High pressure circuit 2 converted to temperature		°C/°F	-3276,8	3276,7	R	High_Press_Circ2_Conv
j	5	M03, He19, D14	High pressure circuit3		barg/psig	-3276,8	3276,7	R	Ain_High_Press_Circ3
j	6	M03, He19, D14	High pressure circuit 3 converted to temperature		°C/°F	-3276,8	3276,7	R	High_Press_Circ3_Conv
1	7	M04, He24, D18	High pressure circuit4		barg/psig	-3276,8	3276,7	R	Ain_High_Press_Circ4
	8	M04, He24, D18	High pressure circuit 4 converted to temperature		°C/°F	-3276,8	3276,7	R	High_Press_Circ4_Conv
	9	M01, He04, D01	Low pressure circuit1		barg/psig	-3276,8	3276,7	R	Ain_Low_Press_Circ1
0	10	M01, He04, D01	Low pressure circuit 1 converted to temperature		°C/°F	-3276,8	3276,7	R	Low_Press_Circ1_Conv
1	11	M02, He13, D08	Low pressure circuit2		barg/psig	-3276,8	3276,7	R	Ain_Low_Press_Circ2
2	12	M02, He13, D08	Low pressure circuit 2 converted to temperature		°C/°F	-3276,8	3276,7	R	Low_Press_Circ2_Conv

<u>CAREL</u>



13	13	M03, He20, D14	Low pressure circuit3		barg/psig	-3276,8	3276,7	R	Ain_Low_Press_Circ3
14	14	M03, He20, D14	Low pressure circuit 3 converted to temperature		°C/°F	-3276,8	3276,7	R	Low_Press_Circ3_Conv
15	15	M04, D18, He25	Low pressure circuit4		barg/psig	-3276,8	3276,7	R	Ain_Low_Press_Circ4
16	16	M04, D18, He25	Low pressure circuit 4 converted to temperature		°C/°F	-3276,8	3276,7	R	Low_Press_Circ4_Conv
17	17	D03, D04, He07	Inlet water evaporator temp.		°C/°F	-3276,8	3276,7	R	Ain_In_Temp_Evap
18	18	D03, He05, He23	Outlet water evaporator temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Evap
19	19	D05, He09	Outlet water evap.1 temp.	-	°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Evap1
20	20	D09, D16, He14	Outlet water evap.2 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Evap2
21	21	D17	Outlet water evap.3 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Evap3
22	22	D19, He26	Outlet water evap.4 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Evap4
23	23	D07, D13, He18,	Outlet water cond.1 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Cond1
24	24	He11 D04, D19, He08,	Outlet water cond.2 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Cond2
25	25	He27 D20, He27	Outlet water cond.3 temp.		°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Cond3
26	26	D16, He22	Outlet water cond.4 temp.	-	°C/°F	-3276,8	3276,7	R	Ain_Out_Temp_Cond4
27	27	D06, D12, He10, He17	Inlet water condenser temp.		°C/°F	-3276,8	3276,7	R	Ain_In_Temp_Cond
28	28	D02, D10, D11, He03, He15, He16	External temperature		°C/°F	-3276,8	3276,7	R	Ain_Temp_Ext
29	29	B02	Cooling temperature setpoint1	12,0 53,0	°C °F	Gfc11 Gfc11	Gfc11 Gfc11	R/W	Cooling_Temp_Set1
30	30	B02	Cooling temperature setpoint2	12,0 53,0	°C °F	Gfc11 Gfc11	Gfc11 Gfc11	R/W	Cooling_Temp_Set2
31	31	B03	Heating temperature setpoint1	40,0	°C	Gfc12	Gfc12	R/W	Heating_Temp_Set1
32	32	B03	Heating temperature setpoint2	104,0 40,0	°F °C	Gfc12 Gfc12	Gfc12 Gfc12	R/W	Heating_Temp_Set2
				104,0	°F	Gfc12	Gfc12	D.	
33	33	M06, B01	Current setpoint		°C/°F	-999,9	999,9	R	Current_Temp_Set
34	34	Gfc23, M05	Condenser fan setpoint in chiller mode	13,0 188,0	psig psig	0	999,9 1448,6	R/W	Fan_Press_Set_CH
35	35	Gfc23	Condenser fan setpoint for CH mode converted to temperature		°C °F	0	999,9	R	Fan_Press_Set_CH_Conv
36	36	Gfc24, M05	Condenser fan setpoint in heatpump mode	13,0 188,5	barg psig	0	999,9	R/W	Fan_Press_Set_HP
37	37	Gfc24	Condenser fan setpoint for HP mode converted to temperature		°C/°F	0	999,9	R	Fan_Press_Set_HP_Conv
38	38	M05	Current condenser fan setpoint		barg/psig	0	999,9	R	Fan_Setpoint
39	39	Gfc35	High pressure prevent threshold	20,0 290,1	barg psig	0	999,9	R/W	HP_Prev_Press_Thr
40	40	Gfc35	High pressure prevent differential	2,0	barg psig	0	870,2	R/W	HP_Prev_Press_Diff
41	41	Gfc33	High pressure alarm threshold	23,0 333,6	barg psig	0	999,9	R/W	HP_Al_Press_Thr
42	42	Gfc33	High pressure alarm differential	2,0 29,0	barg psig	0	999,9	R/W	HP_Al_Press_Diff
43	43	Gfc37	Low pressure prevent threshold	2,0	barg	0	999,9	R/W	LP_Prev_Press_Thr
44	44	Gfc37	Low pressure prevent differential	29,0	psig barg	0	870,2	R/W	LP_Prev_Press_Diff
45	45	Gfc30	Low pressure alarm threshold	29,0 1,5	psig barg	0	999,9	R/W	LP_Al_Press_Thr
	<u> </u>	<u> </u>		21,8	psig				



46	46	Gfc30	Low pressure alarm differential	0,5	barg	0	999,9	R/W	LP_Al_Press_Diff
				7,3	psig				
47	47	Gfc39	Antifreeze prevent threshold	6,0	°C	0	999,9	R/W	Antifreeze_Prev_Temp_Thr
				42,8	°F				
48	48	Gfc39	Antifreeze prevent differential	1,0	°C	0	108	R/W	Antifreeze_Prev_Temp_Diff
			·	1,8	°F			1	
49	49	Hc09	Heater threshold	5,0	°C	-999,9	999,9	R/W	Heater_Temp_Set
				41,0	°F	,			
50	50	Hc09	Heater differential	1,0	°C	0	108	R/W	Heater_Temp_Diff
				1,8	°F			1	
51	51	Hc10	Force off comps.offset by antifreeze	1,5	°C	0	999,9	R/W	ForceOff_Comp_Temp_Offset
			, ,	2,7	°F			1	
52	52	Hc10	Force off comps.differential by antifreeze	1,0	°C	0	999,9	R/W	ForceOff_Comp_Temp_Diff
		1	, , , , , , , , , , , , , , , , , , , ,	1,8	°F		,-	7	
53	53	Hc08	Freeze alarm setpoint	3,0	°C	-999,9	999,9	R/W	Freeze_Al_Temp_Set
33	33	1.000	recee didini serpoine	37,4	°F	333,3	333,3	.,,	
54	54	Hc08	Freeze alarm differential	1,0	°C	0	108	R/W	Freeze_Al_Temp_Diff
3.	j .	1.600	reces didin directina.	1,8	°F			.,,	i reeze_, u_remp_s
55	55	Gfc23	Condenser fan differential in chiller mode	3,0	barg	0	999.9	R/W	Fan_Press_Diff_CH
33	33	GICZS	condenser farr amerendar in eniner mode	43,5	psig	-	333,3	1911	run_ress_biii_err
56	56	Gfc23	Condenser fan diffrential for CH mode converted to temperature		°C/°F	0	999,9	R	Fan_Press_Diff_CH_Conv
57	57	Gfc24	Condenser fan differential in heatpump mode	4,0	barg	n	999.9	R/W	Fan Press Diff HP
31	57	GICZT	condenser fatt amerenda itt nedpatrip mode	58,0	psig	0	333,3	19 **	Tunii ress_biii rii
58	58	Gfc24	Condenser fan differential for HP mode converted to temperature		°C/°F	0	999,9	R	Fan_Press_Diff_HP_Conv
59	59	Gfc15	Cool compensation external setpoint	25,0	°C	-999,9	999,9	R/W	Ext_Temp_Set_Cool
33	59	dicis	Cool compensation external scipoliti	77,0	°F	-333,3	333,3	iy vv	EXt_Temp_Set_eooi
60	60	Gfc15	Cool compensation external differential	10,0	°C	-999,9	999.9	R/W	Ext_Temp_Diff_Cool
00	00	dicis	Cool compensation external differential	18,0	°F	-333,3	222,2	iy vv	EXt_TeTIP_DIII_Cool
61	61	Gfc16	Heat compensation external setpoint	0,0	°C	-999,9	999,9	R/W	Ext_Temp_Set_Heat
01	01	dicto	rieat compensation external setpoint	32,0	°F	-333,3	222,2	iy vv	Ext_Terrip_Set_Treat
<u></u>	62	Gfc16	Heat compensation external differential	10,0	°C	-999,9	999,9	R/W	Ext_Temp_Diff_Heat
62	62	GICTO	neat compensation external differential	18,0	°F	-999,9	999,9	ry vv	ext_remp_biii_neat
67	67	Gfc27	Define at about a star sint			0	000.0	D/M/	Defe Chart Tanas Cat
63	63	GIC27	Defrost start setpoint	2,0	°C °F	U	999,9	R/W	Defr_Start_Temp_Set
		C(35,6				D.044	26517
64	64	Gfc27	Defrost end setpoint	28,0	°C	0	999,9	R/W	Defr_End_Temp_Set
				82,4	°F				
65	65	Gfc14	Pump down end threshold	2,0	barg	-999,9	999,9	R/W	End_PD_Press_Thr
				29,0	psig				
66	66	Gfc26	Condenser fan minimum speed	3,5	V	0	99,9	R/W	Cond_Fan_Min_Speed
67	67	Gfc26	Condenser fan maximum speed	7,5	V	0	100	R/W	Cond_Fan_Max_Speed

Integer variables

Ind. CAREL	Ind. Modbus	Mask Index	Description	Def.	UOM	Min	Max	R/W	Variable name
1	209	Ha01, Gb03	Unit type (0: CH; 1: CH/HP; 2: HP)	1		0	2	R/W	Unit_Type
<u>)</u>	210	Ha02, Gb03	Refrigerant type (0: R22; 1: R134a; 2: R404a; 3: R407c; 4: R410a; 5: R507; 6: R290; 7: R600; 8: R600a; 9: R717; 10: R744; 11: R728; 11: R1270; 12: R417a)	4		0	13	R/W	Gas_Type
3	211	Ha03, Gb03	Circuit number	1		1	4	R/W	Circuits_Num
1	212	Ha03, Gb03	Compressor number per circuit	2		1	3	R/W	Comps_Num_Per_Circ
5	213	Ha04, Gb03	Evaporator number	1		1	4	R/W	Evaporators_Num
ō	214	Ha05	Type of rotation	1		-32768	32767	R/W	Rotation_type
7	215	Ha06	Sequence of load unloader	0		-32768	32767	R/W	Devices_Unload_Sequence
3	216	Ha07	PumpDown type(0:Disable;1:At power off;2:At power on;3:At power on-off)	0		0	3	R/W	PumpDown_Type
)	217	Ha08	Number of evaporator pumps	5		1	2	R/W	N_Pumps
10	218	Ha08	Warnings limit evaporator pump	0		-32768	32767	R/W	N_Warnings
11	219	Ha10	Number of condensator pumps	1		1	2	R/W	N_Pumps
12	220	Ha10	Warnings limit condensator pump	0		-32768	32767	R/W	N_Warnings
13	221	Ha12	Comps.behavior when defrost start/end (0: not OFF compressor; 1: OFF comp.at start; 2: OFF comp. at end; 3: OFF comp. at start/end)	0		0	3	R/W	Defr_Comp_Type
14	222	Hc02	Date format (1: dd/mm/yy; 2: mm/dd/yy; 3: yy.mm.dd)	0		1	3	R/W	Date_Format
15	223	Hc04	Custom rotation ON sequence: weight Dev1 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind0
16	224	Hc04	Custom rotation ON sequence: weight Dev2 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind1
17	225	Hc04	Custom rotation ON sequence: weight Dev3 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind2
18	226	Hc04	Custom rotation ON sequence: weight Dev4 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind3
19	227	Hc04	Custom rotation ON sequence: weight Dev1 Circ2 or Dev5 Circ1 (0: High; 15: Low)	0	-	-32768	32767	R/W	Custom_rot_On_Ind4

<u>CAREL</u>



21		Hc04	Custom rotation ON sequence: weight Dev2 Circ2 or Dev6 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind5
	229	Hc04	High; 15: Low) Custom rotation ON sequence: weight Dev3 Circ2 or Dev7 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind6
22	230	Hc04	High; 15: Low) Custom rotation ON sequence: weight Dev4 Circ2 or Dev8 Circ1 (0:			-32768	32767	R/W	Custom_rot_On_Ind7
			High; 15: Low) Custom rotation ON sequence: weight Dev1 Circ3 or Dev9 Circ1 (0:					,	
23	231	Hc04	High; 15: Low)			-32768	32767	R/W	Custom_rot_On_Ind8
24	232	Hc04	Custom rotation ON sequence: weight Dev2 Circ3 or Dev10 Circ1 (0: High; 15: Low)	0	_	-32768	32767	R/W	Custom_rot_On_Ind9
25	233	Hc04	Custom rotation ON sequence: weight Dev3 Circ3 or Dev11 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind10
26	234	Hc04	Custom rotation ON sequence: weight Dev4 Circ3 or Dev12 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_On_Ind11
27	235	Hc04	Custom rotation ON sequence: weight Dev1 Circ4 or Dev13 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind12
28	236	Hc04	High; 15: Low) Custom rotation ON sequence: weight Dev2 Circ4 or Dev14 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind13
29	237	Hc04	High; 15: Low) Custom rotation ON sequence: weight Dev3 Circ4 or Dev15 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind14
30	238	Hc04	High; 15: Low) Custom rotation ON sequence: weight Dev4 Circ4 or Dev16 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_On_Ind15
31	239	Hc05	High; 15: Low) Custom rotation OFF sequence: weight Dev1 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind0
	240	Hc05	Custom rotation OFF sequence: weight Dev1 Circ1 (0: High; 15: Low)			-32768	32767	R/W	
			, , ,					,	Custom_rot_Off_Ind1
	241	Hc05	Custom rotation OFF sequence: weight Dev3 Circ1 (0: High; 15: Low)			-32768	32767	R/W	Custom_rot_Off_Ind2
	242	Hc05	Custom rotation OFF sequence: weight Dev4 Circ1 (0: High; 15: Low)			-32768	32767	R/W	Custom_rot_Off_Ind3
35	243	Hc05	Custom rotation OFF sequence: weight Dev1 Circ2 or Dev5 Circ1 (0: High; 15: Low)			-32768	32767	R/W	Custom_rot_Off_Ind4
36	244	Hc05	Custom rotation OFF sequence: weight Dev2 Circ2 or Dev6 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind5
37	245	Hc05	Custom rotation OFF sequence: weight Dev3 Circ2 or Dev7 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind6
38	246	Hc05	Custom rotation OFF sequence: weight Dev4 Circ2 or Dev8 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind7
39	247	Hc05	Custom rotation OFF sequence: weight Dev1 Circ3 or Dev9 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind8
40	248	Hc05	Custom rotation OFF sequence: weight Dev2 Circ3 or Dev10 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind9
41	249	Hc05	Custom rotation OFF sequence: weight Dev3 Circ3 or Dev11 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind10
42	250	Hc05	Custom rotation OFF sequence: weight Dev4 Circ3 or Dev12 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind11
43	251	Hc05	Custom rotation OFF sequence: weight Dev1 Circ4 or Dev13 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind12
44	252	Hc05	Custom rotation OFF sequence: weight Dev2 Circ4 or Dev14 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind13
45	253	Hc05	Custom rotation OFF sequence: weight Dev3 Circ4 or Dev15 Circ1 (0: High; 15: Low)	0		-32768	32767	R/W	Custom_rot_Off_Ind14
46	254	Hc05	Custom rotation OFF sequence: weight Dev4 Circ4 or Dev16 Circ1 (0:	0		-32768	32767	R/W	Custom_rot_Off_Ind15
47	255	Hc06	High; 15: Low) Compressors min ON time	60	s	0	999	R/W	Comps_Min_Time_ON
	256	Hc06	Compressors min OFF time	360	s s	0	999	R/W	Comps_Min_Time_OFF
49	257	Hc06	Min start time between same compressor	450	c	0	999	R/W	Comps_Min_T_Start_Same
50	258	Gfc01	Cool/Heat change delay time	60	3	0	999	R/W	Delay_C_H_Change
			<u> </u>			72760			Regulation_Type
	259	Gfc04	Regulation type (0: proportional; 1: prop.+ int.; 2: pid)	0		-32768	32767	R/W	0 = 71
52	260	Gfc04	Cooling derivative time	300		-32768	32767	R/W	Der_Time_Pos
53	261	Gfc04	Cooling integration time	300		-32768	32767	R/W	Int_Time_Pos
	262	Gfc04	Heating derivative time	300		-32768	32767	R/W	Der_Time_Neg
55	263	Gfc04	Heating integration time	300		-32768	32767	R/W	Int_Time_Neg
	264	Gfc09	Minimum time for loading	120	S	0	9999		Min_Time_Load_NZ
57	265	Gfc09	Maximum time for loading	600	S	0	9999	R/W	Max_Time_Load_NZ
58	266	Gfc10	Minimum time for unloading	120	S	0	9999	R/W	Min_Time_Unload_NZ
59	267	Gfc10	Maximum time for unloading	600	S	0	9999	R/W	Max_Time_Unload_NZ
60	268	Gfc13	Time between comp.load	10	S	0	999	R/W	Load_Up_Time
61	269	Gfc13	Time between comp.download	10	S	0	999	R/W	Load_Down_Time
62	270	Gc01	Cooling/Heating change (0: cooling; 1: heating)	0		0	1	R/W	Cool_Heat_KeyB
63	271	Gfc14	Maximum pump down time	60	S	0	999	R/W	Max_PumpDown_Time
64	272	Gfc17	Delay between evap.pump on and comp.on	25	S	0	999	R/W	EPump_On_Delay
	273	Gfc17	Evap.pump off delay time	10	s	0	999	R/W	EPump_Off_Delay
	274	Gfc18	Evap.pumps flow alarm startup delay time	20	s	0	999	R/W	EPump_Flow_Startup_Delay
66		UIC10	Evap.pamps nove diarm startup delay time	20	۲	ľ	222	· y * *	L. GITIP_LIOW_Startup_Delay
		Cfc10	Evan numne flow alarm running delay time	5	c	1	000	D/M/	EDump Flore Dup Dalar
67	275	Gfc18 Gfc19	Evap.pumps flow alarm running delay time Evap.pumps rotation time	5 100	S	1	999 999	R/W R/W	EPump_Flow_Run_Delay EPump_Rot_Time





69	277	Gfc19	Evap.pumps overwork time	5	 	0	999	R/W	EPump_Overwork_Time
70	278	Gfc20	Cond.pump off delay time	10	S	0	999	R/W	CPump_Off_Delay
71	279	Gfc21	Cond.pumps flow alarm startup delay time	20	c	0	999	R/W	CPump_Flow_Startup_Delay
72	280	Gfc21	Cond.pumps flow alarm running delay time	5	s c	1	999	R/W	CPump_Flow_Run_Delay
73	281	Gfc22	Cond.pumps rotation time	100		0	999	R/W	CPump Rot Time
74	282	Gfc22	Cond.pumps overwork time	5		0	999	R/W	CPump_Overwork_Time
75	283	Gfc25	Cond.fans speed-up time	10	S	0	99	R/W	Speed_Up_Time
76	284	Gfc25	Liquid soleniod speed up time	60	S	0	99	R/W	Liq_Sol_Speed_Up_Time
77	285	Gfc28	Defrost startup delay	1800		1	9999	R/W	Defr_Startup_Delay
78	286	Gfc28	Defrost minimum time	0		0	999	R/W	Defr_Min_Time
79	287	Gfc28	Defrost maximum time	5		1	999	R/W	Defr_Max_Time
80	288	Gfc29	Defrost interval time	0	min	0	999	R/W	Defr_Interval_Time
81	289	Gfc29	Dripping time	30	S	0	999	R/W	Dripping_Time
82	290	Gfc31	Low pressure alarm startup delay	40	S	0	999	R/W	LP_Start_Delay
83	291	Gfc31	Low pressure alarm running delay	0	S	0	999	R/W	LP_Run_Delay
84	292	Gfc34	Prevent automatic increase time	10	S	0	999	R/W	Time_Auto_Incr_Prev
85	293	Gfc34	Count prevent number time	60	min	0	100	R/W	Time_Count_Prev_Number
86	294	Gfc36	High pressure prevent number	3		0	5	R/W	HP_Prev_Num
87	295	Gfc36	High pressure prevent delay	5		0	999	R/W	HP_Prev_Delay
88	296	Gfc38	Low pressure prevent number	3		0	5	R/W	LP_Prev_Num
89	297	Gfc38	Low pressure prevent delay	5		0	999	R/W	LP_Prev_Delay
90	298	Gfc40	Antifreeze prevent number	3		0	5	R/W	Antifreeze_Prev_Num
91	299	Gfc40	Antifreeze prevent warning delay	5		0	999	R/W	Antifreeze_Prev_Delay
92	300	D64	AOUT1 value of master board	0		0	1000	R/W	Virt_Aout1_Value
93	301	D64	AOUT2 value of master board	0		0	1000	R/W	Virt_Aout2_Value
94	302	D62	AOUT3 value of master board	0		0	1000	R/W	Virt_Aout3_Value
95	303	Gd01	Evaporator pump1 working hour-high part	0		0	999	R	Hour_H_Evap_Pump1
96 97	304 305	Gd01 Gd01	Evaporator pump1 working hour-low part Evaporator pump2 working hour-high part	0	-	0	999 999	R R	Hour_L_Evap_Pump1 Hour_H_Evap_Pump2
98	306	Gd01 Gd01	Evaporator pump2 working hour-low part	0		0	999	D.	Hour_L_Evap_Pump2
99	307	Gd01 Gd02	Comp1 circ1 working hour-high part	0		0	999	D.	Hour_H_Comp1_Circ1
100	308	Gd02 Gd02	Comp1 circ1 working hour-low part	0			999	R	Hour_L_Comp1_Circ1
101	309	Gd02 Gd02	Comp2 circ1 working hour-high part	0		0	999	R	Hour_H_Comp2_Circ1
102	310	Gd02 Gd02	Comp2 circ1 working hour-low part	0		0	999	R	Hour_L_Comp2_Circ1
103	311	Gd02	Comp3 circ1 working hour-high part	0			999	R	Hour_H_Comp3_Circ1
104	312	Gd02	Comp3 circ1 working hour-low part	0		0	999	R	Hour_L_Comp3_Circ1
105	313	Gd03	Comp1 circ2 working hour-high part	0		0	999	R	Hour_H_Comp1_Circ2
106	314	Gd03	Comp1 circ2 working hour-low part	0		0	999	R	Hour_L_Comp1_Circ2
107	315	Gd03	Comp2 circ2 working hour-high part	0		0	999	R	Hour_H_Comp2_Circ2
108	316	Gd03	Comp2 circ2 working hour-low part	0		0	999	R	Hour_L_Comp2_Circ2
109	317	Gd03	Comp3 circ2 working hour-high part	0		0	999	R	Hour_H_Comp3_Circ2
110	318	Gd03	Comp3 circ2 working hour-low part	0		0	999	R	Hour_L_Comp3_Circ2
111	319	Gd04	Comp1 circ3 working hour-high part	0		0	999	R	Hour_H_Comp1_Circ3
	320	Gd04	Comp1 circ3 working hour-low part	0		0	999	R	Hour_L_Comp1_Circ3
	321	Gd04	Comp2 circ3 working hour-high part	0	-	0	999	R	Hour_H_Comp2_Circ3
114	322	Gd04	Comp2 circ3 working hour-low part	0		0	999	R	Hour_L_Comp2_Circ3
	323	Gd04	Comp3 circ3 working hour-high part	0		0	999	R	Hour_H_Comp3_Circ3
116	324	Gd04	Comp3 circ3 working hour-low part	0	-	0	999	R	Hour_L_Comp3_Circ3
117	325	Gd05	Comp1 circ4 working hour-high part	0			999	K	Hour_H_Comp1_Circ4
	326	Gd05	Comp1 circ4 working hour-low part	0			999	R	Hour_L_Comp1_Circ4
	327	Gd05	Comp2 circ4 working hour-high part	0			999	R	Hour_H_Comp2_Circ4
	328	Gd05	Comp2 circ4 working hour-low part	0			999	R	Hour_L_Comp2_Circ4
	329 330	Gd05	Comp3 circ4 working hour-high part	0			999	R	Hour_H_Comp3_Circ4
122	331	Gd05 Gd06	Comp3 circ4 working hour-low part Condenser fan1 working hour-high part	0	E		999 999	D.	Hour_L_Comp3_Circ4 Hour_H_Cond_Fan1
123	332	Gd06	Condenser fan i working nour-nign part Condenser fan i working hour-low part	0	<u> </u>		999	R R	Hour_H_Cond_Fan1 Hour_L_Cond_Fan1
124	333	Gd06 Gd06	Condenser fan Working Hour-low part Condenser fan 2 working hour-high part	0	<u> </u>		999	R	Hour_H_Cond_Fan2
126	334	Gd06 Gd06	Condenser fan 2 working hour-low part Condenser fan 2 working hour-low part	0		0	999	R	Hour_L_Cond_Fan2
	335	Gd00 Gd07	Condenser pump1 working hour-high part	0		0	999	R	Hour_H_Cond_Pump1
	336	Gd07 Gd07	Condenser pump1 working hour-low part	0			999	R	Hour_L_Cond_Pump1
	337	Gd07 Gd07	Condenser pump2 working hour-high part	0			999	R	Hour_H_Cond_Pump2
	338	Gd07 Gd07	Condenser pump2 working hour-low part	0			999	R	Hour_L_Cond_Pump2
.50	P0	5407	condenses pumpe working from low part	ľ	<u> </u>	ı —		l.,	





Digital variables

Ind. CAREL	Ind. Modbus	Mask Index	Description	Def.	иом	Min	Max	R/W	Variable name
1	1	D21	DIN1 of master board (0-Close;1-Open)	0		0	1	R	Din1_Status
2	2	D21	DIN2 of master board (0-Close;1-Open)	0		0	1	R	Din2_Status
3	3	D24	DIN3 of master board (0-Close;1-Open)	0		0	1	R	Din3_Status
4	4	D24	DIN4 of master board (0-Close;1-Open)	0		0	1	R	Din4_Status
5	5	D26	DIN5 of master board (0-Close;1-Open)	0		0	1	R	Din5_Status
6	6	D26	DIN6 of master board (0-Close;1-Open)	0		0	1	R	Din6_Status
7	7	D27	DIN7 of master board (0-Close;1-Open)	0		0	1	R	Din7_Status
8	8	D27	DIN8 of master board (0-Close;1-Open)	0		0	1	R	Din8_Status
9	9	D28	DIN9 of master board (0-Close;1-Open)	0		0	1	R	Din9_Status
10	10	D28	DIN10 of master board (0-Close;1-Open)	0		0	1	R	Din10_Status
11	11	D29	DIN11 of master board (0-Close;1-Open)	0		0	1	R	Din11_Status
12	12	D29	DIN12 of master board (0-Close;1-Open)	0		0	1	R	Din12_Status
13	13	D32	DIN13 of master board (0-Close;1-Open)	0		0	1	R	Din13_Status
14	14	D32	DIN14 of master board (0-Close;1-Open)	0		0	1	R	Din14_Status
15	15	D33	DIN15 of master board (0-Close;1-Open)	0		0	1	R	Din15_Status
16	16	D33	DIN16 of master board (0-Close;1-Open)	0		0	1	R	Din16_Status
17	17	D34	DIN17 of master board (0-Close;1-Open)	0		0	1	R	Din17_Status
18	18	D42	DOUT1 of master board (0-Open;1-Close)	0		0	1	R	Dout1_Value
19	19	D42	DOUT2 of master board (0-Open;1-Close)	0		0	1	R	Dout2_Value
20	20	D45	DOUT3 of master board (0-Open;1-Close)	0		0	1	R	Dout3_Value
21	21	D45	DOUT4 of master board (0-Open;1-Close)	0	_	0	1	D.	Dout4_Value
22	22	D49	DOUT5 of master board (0-Open;1-Close)	0		0	1	D.	Dout5_Value
23	23	D49	DOUT6 of master board (0-Open;1-Close)	0		0	1	D	Dout6_Value
24	24	D50	DOUT7 of master board (0-Open;1-Close)	0		0	1	D	Dout7_Value
	25		` · · · /	0		0	1	D.	
25		D50	DOUTS of master board (0-Open;1-Close)	0		0	1	D.	Dout8_Value
26	26	D51	DOUT19 of master board (0-Open;1-Close)	0		0	1	K D	Dout9_Value
27	27	D52	DOUT10 of master board (0-Open;1-Close)	0		0	1	K	Dout10_Value
28	28	D52	DOUT11 of master board (0-Open;1-Close)	0		0	1	K	Dout11_Value
29	29	D53	DOUT12 of master board (0-Open;1-Close)	0		0		K	Dout12_Value
30	30	D53	DOUT13 of master board (0-Open;1-Close)	0		0	1	R	Dout13_Value
31	31	D54	DOUT14 of master board (0-Open;1-Close)	0		0	l	R	Dout14_Value
32	32	D54	DOUT15 of master board (0-Open;1-Close)	0	-	0	1	R	Dout15_Value
33	33	D55	DOUT16 of master board (0-Open;1-Close)	0		0	1	R	Dout16_Value
34	34	D35	DIN1 of slave board (0-Close;1-Open)	0		0	1	R	Din1_Status_S
35	35	D35	DIN2 of slave board (0-Close;1-Open)	0		0	1	R	Din2_Status_S
36	36	D36	DIN6 of slave board (0-Close;1-Open)	0		0	1	R	Din6_Status_S
37	37	D36	DIN7 of slave board (0-Close;1-Open)	0		0	1	R	Din7_Status_S
38	38	D37	DIN9 of slave board (0-Close;1-Open)	0		0	1	R	Din9_Status_S
39	39	D37	DIN10 of slave board (0-Close;1-Open)	0		0	1	R	Din10_Status_S
40	40	D38	DIN11 of slave board (0-Close;1-Open)	0		0	1	R	Din11_Status_S
41	41	D38	DIN12 of slave board (0-Close;1-Open)	0		0	1	R	Din12_Status_S
42	42	D39	DIN13 of slave board (0-Close;1-Open)	0		0	1	R	Din13_Status_S
43	43	D40	DIN15 of slave board (0-Close;1-Open)	0		0	1	R	Din15_Status_S
44	44	D40	DIN16 of slave board (0-Close;1-Open)	0		0	1	R	Din16_Status_S
45	45	D56	DOUT1 of slave board (0-Open;1-Close)	0		0	1	R	Dout1_Value_S
46	46	D56	DOUT2 of slave board (0-Open;1-Close)	0		0	1	R	Dout2_Value_S
47	47	D57	DOUT3 of slave board (0-Open;1-Close)	0		0	1	R	Dout3_Value_S
48	48	D57	DOUT4 of slave board (0-Open;1-Close)	0		0	1	R	Dout4_Value_S
49	49	D58	DOUT9 of slave board (0-Open;1-Close)	0		0	1	R	Dout9_Value_S
50	50	D59	DOUT10 of slave board (0-Open;1-Close)	0		0	1	R	Dout10_Value_S
51	51	D59	DOUT11 of slave board (0-Open;1-Close)	0		0	1	R	Dout11_Value_S
52	52	D60	DOUT12 of slave board (0-Open;1-Close)	0		0	1	R	Dout12_Value_S
53	53	D60	DOUT13 of slave board (0-Open;1-Close)	0		0	1	R	Dout13_Value_S
54	54	D61	DOUT14 of slave board (0-Open;1-Close)	0		0	1	R	Dout14_Value_S
55	55	D61	DOUT15 of slave board (0-Open;1-Close)	0		0	1	R	Dout15_Value_S
56	56	Ha01,	Physical circuit type (AW/WW)	0		0	1	R/W	Physical_Circ_Type
		Gb03	Great type (, 1111)	ſ		ſ	[.,	,5.0000_1,700
57	57	Ha02	Reverse cycle type(0-Water;1-Gas)	0		0	1	R/W	Reverse_Cycle_Type
58	58	Ha04,	Condensing type (0-Single;1-Separated)	0		0	1	R/W	Cond_Type
		Gb03	A					D 44:	5 1 1 6 5
59	59	Ha05	Sequence activation compressors (0: Packed, 1: Equalized)	0		0]	R/W	Equalized_Circ_Power
60	60	Ha09	Enable antiblock evaporator pump	ľ	ļ	U	II	R/W	En_Antiblock
62	62	Ha12	Defrost type (0: Separated; 1: Simultaneous)	0		0	1	R/W	Defrost_Type
63	63	Ha13	Enable setpoint compensation	0		0	1	R/W	En_Compensation
	1	1		r	i .	r	ı	17	





64	64	Ha14	Enable clock for pCO* without clock device on board (0: Disabled; 1: Enabled)	0		0	1	R/W	En_Clock_Board
65	65	Hc07	Enable high pressure prevent	1		0	1	R/W	En_HP_Prev
66	66	Hc07	Enable low pressure prevent	1		0	1	R/W	En_LP_Prev
67	67	Hc07	Enable antifreeze prevent	1		0	1	R/W	En_Antifreeze_Prev
68	68	Gfc02	Enable switch-off unit by keyboard	1		0	1	R/W	En_Keyboard_Off
69	69	Gfc03, Main mask	Regulation temperature probe (0: inlet; 1: outlet)	0		0	1	R/W	Reg_Temp_Probe
70	70	Gfc08	Enable force require to 0 during NZ regulation when the regulation temperature is lower a threshold	0		0	1	R/W	En_Force_Off
71	71	Gfc20	Pump on if (0-Unit on: 1-Compressors required)	n		0	1	R/W	Pump_Work_Type
72	72	Gfc32	LP by pressostat reset type (0: Semiautomatic; 1: Manual)	1		0	1	R/W	Reset_Type_LP_Pressostat
73	73	Gfc32	LP by transducer reset type (0: Semiautomatic; 1: Manual)	0		0	1	R/W	Reset_Type_LP_Transducer
74	74	Hc01	Supervisor (BMS) On-Off. Show the state OFFbyBMS in main mask (0: Off; 1: On)	1		0	1	R/W	Superv_OnOff
75	75		Compressor1 circuit1 (0: Off; 1: On)	0		0	1	R	Comp1_Circ1
76	76		Compressor2 circuit1 (0: Off; 1: On)	0		0	1	R	Comp2_Circ1
77	77		Compressor3 circuit1 (0: Off; 1: On)	0		0	1	R	Comp3_Circ1
78	78		Compressor1 circuit2 (0: Off; 1: On)	0		0	1	R	Comp1_Circ2
79	79		Compressor2 circuit2 (0: Off; 1: On)	0		0	1	R	Comp2_Circ2
80	80		Compressor3 circuit2 (0: Off; 1: On)	0		0	1	R	Comp3_Circ2
81	81		Compressor1 circuit3 (0: Off; 1: On)	0		0	1	R	Comp1_Circ3
82	82		Compressor2 circuit3 (0: Off; 1: On)	0		0	1	R	Comp2_Circ3
83	83		Compressor3 circuit3 (0: Off; 1: On)	0		0	1	R	Comp3_Circ3
84	84		Compressor1 circuit4 (0: Off; 1: On)	0		0	1	R	Comp1_Circ4
85	85		Compressor2 circuit4 (0: Off; 1: On)	0		0	1	R	Comp2_Circ4
86	86		Compressor3 circuit4 (0: Off; 1: On)	0		0	1	R	Comp3_Circ4
87	87	Hc04	Change UOM by BMS (0: Standard (°C - barg/psig); Anglo-saxon (°F - psig))	0		0	1	R/W	Unit_Meas_Type_BMS
88	88	ALG01	Specify if clock board doesn't work or is absent (0: No alarm; 1: Alarm)	0		0	1	R/W	mAl_Clock
89	89	ALG02	Specify if P-Memory expansion doesn't work or is absent (0: No alarm; 1: Alarm)	0		0	1	R/W	mAl_Extd_Memory
90	90	ALG03	Serious alarm by DIN (0: No alarm; 1: Alarm)	0		0	1	R	mAl_Serious_DIN
91	91	ALO04	Specify if slave offline (0: No alarm; 1: Alarm)	0		0	1	R	Al_Slave_Offline
92		ALA05	Specify if high pressure probe circuit1 fault or not connected (0: No	0		0	1	D.	Al_Prb_HP1
	92		alarm; 1: Alarm)	0		0	!	K	
93	93	ALA06	Specify if high pressure probe circuit2 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_HP2
94	94	ALA07	Specify if high pressure probe circuit3 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_HP3
95	95	ALA08	Specify if high pressure probe circuit4 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_HP4
96	96	ALA09	Specify if low pressure probe circuit1 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_LP1
97	97	ALA10	Specify if low pressure probe circuit2 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_LP2
98	98	ALA11	Specify if low pressure probe circuit3 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_LP3
99	99	ALA12	Specify if low pressure probe circuit4 fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_LP4
100	100	ALA13	Specify if evap.inlet probe fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_In_Evap
101	101	ALA14	Specify if cond.inlet probe fault or not connected (0: No alarm; 1: Alarm)	1		0	1	R	Al_Prb_In_Cond
102	102	ALA15	Specify if evap.outlet probe fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_Out_Evap
103	103	ALA16	Specify if evap1.outlet probe fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_Out_Evap1
104	104	ALA17	Specify if evap2.outlet probe fault or not connected (0: No alarm; 1: Alarm)	0		0	1	R	Al_Prb_Out_Evap2
105	105	ALA18	Specify if evap3.outlet probe fault or not connected (0: No alarm; 1: Alarm)	0	-	0	1	R	Al_Prb_Out_Evap3
106	106	ALA19	Specify if evap4.outlet probe fault or not connected (0: No alarm; 1:	0		0	1	R	Al_Prb_Out_Evap4
107	107	ALA20	Alarm) Specify if cond1.outlet probe fault or not connected (0: No alarm; 1:	0		0	1	R	Al_Prb_Out_Cond1
108	108	ALA21	Alarm) Specify if cond2.outlet probe fault or not connected (0: No alarm; 1:	0		0	1	R	Al_Prb_Out_Cond2
109	109	ALA22	Alarm) Specify if cond3.outlet probe fault or not connected (0: No alarm; 1:	0		0	1	R	Al_Prb_Out_Cond3
110	110	ALA23	Alarm) Specify if cond4.outlet probe fault or not connected (0: No alarm; 1:	0		0	1	R	Al_Prb_Out_Cond4
111	111	ALA24	Alarm) Specify if evap.water temp.probe fault or not connected (0: No alarm;	0		0	1	R	Al_Prb_Evap_Reg
112	112	ALA25	1: Alarm) Specify if external temp.probe fault or not connected (0: No alarm; 1:			0	1	R	Al_Prb_Ext_Temp
113	113	ALT26	Alarm) Comp1 circ1 maitenance warning	0		0	1	R	mAl_Hour_Comp1_Circ1
114	114	ALT26	Comp2 circ1 materiance warning	0		0	1	R	mAl_Hour_Comp2_Circ1
115	115	ALT26	Comp3 circ1 maitenance warning	0		0	1	R	mAl_Hour_Comp3_Circ1





116	luc	IAI TO C	lo1 -i2i	h	ı	h	l _a	lo.	Land Have Coursel Circle
116	116 117	ALT26 ALT26	Comp1 circ2 maitenance warning Comp2 circ2 maitenance warning	0		0	1	R	mAl_Hour_Comp1_Circ2 mAl_Hour_Comp2_Circ2
117	118	ALT26	Comp3 circ2 maitenance warning Comp3 circ2 maitenance warning	0		0	1	D.	mAl_Hour_Comp3_Circ2
119	119	ALT26	Comp1 circ3 maitenance warning	0		0	1	R	mAl_Hour_Comp1_Circ3
120	120	ALT26	Comp2 circ3 maitenance warning	0		0	1	R	mAl_Hour_Comp2_Circ3
121	121	ALT26	Comp3 circ3 maitenance warning	0		0	1	R	mAl_Hour_Comp3_Circ3
122	122	ALT26	Comp1 circ4 maitenance warning	0		0	1	R	mAl_Hour_Comp1_Circ4
123	123	ALT26	Comp2 circ4 maitenance warning	0		0	1	R	mAl_Hour_Comp2_Circ4
124	124	ALT26	Comp3 circ4 maitenance warning	0		0	1	R	mAl_Hour_Comp3_Circ4
125	125	ALT27	Condenser fan group1 maitenance warning	0		0	1	R	mAl_Hour_Cond_Fan1
126	126	ALT27	Condenser fan group2 maitenance warning	0		0	1	R	mAl_Hour_Cond_Fan2
127	127	ALT28	Condenser pump1 maitenance warning	0		0	1	R	mAl_Hour_Cond_Pump1
128	128	ALT28	Condenser pump2 maitenance warning	0		0	1	R	mAl_Hour_Cond_Pump2
129	129	ALT29	Evaporator pump1 maitenance warning	0		0	1	R	mAl_Hour_Evap_Pump1
130	130	ALT29	Evaporator pump2 maitenance warning	0		0	1	R	mAl_Hour_Evap_Pump2
131	131	ALC30	Overload Compressor 1 circuit 1	0		0	1	R	mOvrl_Comp1_Circ1
132	132	ALC30	Overload Compressor 2 circuit 1	0		0	1	K D	mOvrl_Comp2_Circ1
134	133 134	ALC30 ALC30	Overload Compressor 3 circuit 1 Overload Compressor 1 circuit 2	0		0	1	K D	mOvrl_Comp3_Circ1 mOvrl_Comp1_Circ2
135	135	ALC30	Overload Compressor 1 circuit 2 Overload Compressor 2 circuit 2	0		0	1	D.	mOvrl_Comp2_Circ2
136	136	ALC30	Overload Compressor 3 circuit 2	0		0	1	D.	mOvrl_Comp3_Circ2
137	137	ALC30	Overload Compressor 3 circuit 2 Overload Compressor 1 circuit 3	0		0	1	D D	mOvrl_Comp1_Circ3
138	138	ALC30	Overload Compressor 1 circuit 3	0		0	1	R	mOvrl_Comp2_Circ3
139	139	ALC30	Overload Compressor 3 circuit 3	0		0	1	R	mOvrl Comp3 Circ3
140	140	ALC30	Overload Compressor 1 circuit 4	0		0	1	R	mOvrl_Comp1_Circ4
141	141	ALC30	Overload Compressor 1 circuit 4 Overload Compressor 2 circuit 4	0		0	1	R	mOvrl_Comp2_Circ4
142	142	ALC30	Overload Compressor 3 circuit 4	0		0	1	R	mOvrl_Comp3_Circ4
143	143	ALW31	Force off comp.circ.1 warning by antifreeze	0		0	1	R	ForceOff Circ1 Freeze
144	144	ALW31	Force off comp.circ.2 warning by antifreeze	0		0	1	R	ForceOff Circ2 Freeze
145	145	ALW31	Force off comp.circ.3 warning by antifreeze	0		0	1	R	ForceOff_Circ3_Freeze
146	146	ALW31	Force off comp.circ.4 warning by antifreeze	0		0	1	R	ForceOff_Circ4_Freeze
147	147	ALW32	Circuit 1 Warning Stop defrost by max time	0		0	1	R	mDefrost_Warning_C1
148	148	ALW32	Circuit 2 Warning Stop defrost by max time	0		0	1	R	mDefrost_Warning_C2
149	149	ALW32	Circuit 3 Warning Stop defrost by max time	0		0	1	R	mDefrost_Warning_C3
150	150	ALW32	Circuit 4 Warning Stop defrost by max time	0		0	1	R	mDefrost_Warning_C4
151	151	ALW33	Circuit 1 Warning Stop PD by max time	0		0	1	R	mPD_Warning_Circ1
152	152	ALW33	Circuit 2 Warning Stop PD by max time	0		0	1	R	mPD_Warning_Circ2
153	153	ALW33	Circuit 3 Warning Stop PD by max time	0		0	1	R	mPD_Warning_Circ3
154	154	ALW33	Circuit 4 Warning Stop PD by max time	0		0	1	R	mPD_Warning_Circ4
155	155	ALB34	Circuit 1 Low pressure alarm by pressostat	0		0	1	R	Gen_LP_Pressostat_Circ1
156	156	ALB34	Circuit 2 Low pressure alarm by pressostat	0		0	1	R	Gen_LP_Pressostat_Circ2
157	157	ALB34	Circuit 3 Low pressure alarm by pressostat	0		0	1	R	Gen_LP_Pressostat_Circ3
158	158	ALB34	Circuit 4 Low pressure alarm by pressostat	0		0	1	R	Gen_LP_Pressostat_Circ4
159	159	ALB35	Circuit 1 Low pressure alarm by transducer	0		0	1	R	Gen_LP_Transducer_Circ1
160	160	ALB35	Circuit 2 Low pressure alarm by transducer	0		0	1	R	Gen_LP_Transducer_Circ2
161	161	ALB35	Circuit 3 Low pressure alarm by transducer	0		0	1	R	Gen_LP_Transducer_Circ3
162	162	ALB35	Circuit 4 Low pressure alarm by transducer	0		0	1	R R	Gen_LP_Transducer_Circ4
163 164	163 164	ALB36 ALB36	Circuit 1 High pressure alarm by prossostat Circuit 2 High pressure alarm by prossostat	0		0	1	R R	mAl_HP_Pressostat_Circ1 mAl_HP_Pressostat_Circ2
165	165	ALB36	Circuit 2 High pressure alarm by prossostat	0		0	1	D.	mAl_HP_Pressostat_Circ3
166	166	ALB36	Circuit 4 High pressure alarm by prossostat	0		0	1	R	mAl_HP_Pressostat_Circ4
167	167	ALB37	Circuit 1 High pressure alarm by prossosiat	n		0	1	R	mAl HP Transducer Circ1
168	168	ALB37	Circuit 2 High pressure alarm by transducer	0		0	1	R	mAl HP Transducer Circ2
169	169	ALB37	Circuit 3 High pressure alarm by transducer	0		0	1	R	mAl_HP_Transducer_Circ3
170	170	ALB37	Circuit 4 High pressure alarm by transducer	0		0	1	R	mAl_HP_Transducer_Circ4
171	171	ALB48	Antifreeze alarm Circuit 1	0		0	1	R	mAl Freeze Circ1
172	172	ALB48	Antifreeze alarm Circuit 2	0		0	1	R	mAl_Freeze_Circ2
173	173	ALB48	Antifreeze alarm Circuit 3	0		0	1	R	mAl_Freeze_Circ3
174	174	ALB48	Antifreeze alarm Circuit 4	0		0	1	R	mAl_Freeze_Circ4
175	175	ALB49	Circuit 1-2 Antifreeze alarm	0		0	1	R	mAl_Freeze_Circ1_2
176	176	ALB49	Circuit 3-4 Antifreeze alarm	0		0	1	R	mAl_Freeze_Circ3_4
177	177	ALU50	Unit Antifreeze alarm	0		0	1	R	mAl_Freeze_Unit
178	178	ALB51	Circuit 1 Warning High pressure prevent	0		0	1	R	HP_Prevent_Circ1
179	179	ALB51	Circuit 1 Warning Low pressure prevent	0		0	1	R	LP_Prevent_Circ1
180	180	ALB51	Circuit 1 Warning Antifreeze prevent	0		0	1	R	Antifreeze_Prevent_Circ1
181	181	ALB52	Circuit 2 Warning High pressure prevent	0		0	1	R	HP_Prevent_Circ2
182	182	ALB52	Circuit 2 Warning Low pressure prevent	0		0	1	R	LP_Prevent_Circ2
183	183	ALB52	Circuit 2 Warning Antifreeze prevent	0	<u></u>	0	1	R	Antifreeze_Prevent_Circ2
184	184	ALB53	Circuit 3 Warning High pressure prevent	0		0	1	R	HP_Prevent_Circ3
185	185	ALB53	Circuit 3 Warning Low pressure prevent	0	-	0]	R -	LP_Prevent_Circ3
186	186	ALB53	Circuit 3 Warning Antifreeze prevent	0		0	1	R	Antifreeze_Prevent_Circ3
187	187	ALB54	Circuit 4 Warning High pressure prevent	0		0	1	K	HP_Prevent_Circ4
188	188	ALB54	Circuit 4 Warning Low pressure prevent	0		0	1	К	LP_Prevent_Circ4
189	189	ALB54	Circuit 4 Warning Antifreeze prevent	0		0		R	Antifreeze_Prevent_Circ4
190	190	ALB55	Circuit 1-2 Warning Antifreeze prevent	U	-	U	1	R	Antifreeze_Prev_Circ1_2
	101								
191 192	191 192	ALB55 ALU56	Circuit 3-4 Warning Antifreeze prevent Unit antifreeze prevent warning	0		0	1	R	Antifreeze_Prev_Circ3_4 Warning_Prev_Unit





193	193	ALP38	Evaporator Pump 1 flow warning	0	 0	1	R	Warning_EPump1
194	194	ALP39	Evaporator Pump 2 flow warning	0	 0	1	R	Warning_EPump2
195	195	ALP44	Condenser pump 1 flow warning	0	 0	1	R	Warning_CPump1
196	196	ALP45	Condenser pump 2 flow warning	0	 0	1	R	Warning_CPump2
197	197	ALP40	Evaporator pump 1 flow alarm	0	 0	1	R	mAl_Flow_Pump_1
198	198	ALP41	Evaporator pump 2 flow alarm	0	 0	1	R	mAl_Flow_Pump_2
199	199	ALP42	Evaporator pump 1 overload	0	 0	1	R/W	mAl_Overload_1
200	200	ALP43	Evaporator pump 2 overload	0	 0	1	R/W	mAl_Overload_2
201	201	ALP46	Condenser pump 1 flow alarm	0	 0	1	R	mAl_Flow_Pump_1
202	202	ALP47	Condenser pump 2 flow alarm	0	 0	1	R	mAl Flow Pump 2



Evaporator antifreeze

9.1.1 Antifreeze alarm

Evaporator antifreeze control is always active, even when the unit is Off, in both cooling and heating mode.

Antifreeze is a serious alarm therefore, depending on the ratio between refrigerant circuits / number of evaporators, when activated either the entire unit, the pair of circuits or the single circuit are shut down and the water circulating pump is activated. The summary table is shown below:

Circuits	No. of evap.	Antifreeze probe used	Action of the alarm
1	1	Control water outlet temp.	Unit off
2	1	Control water outlet temp.	Unit off
2	2	Evap. 1 water outlet temp.	Circuit 1 off
		Evap. 2 water outlet temp.	Circuit 2 off
3	1	Control water outlet temp.	Unit off
3	3	Evap. 1 water outlet temp.	Circuit 1 off
		Evap. 2 water outlet temp.	Circuit 2 off
		Evap. 3 water outlet temp.	Circuit 3 off
4	1	Control water outlet temp.	Unit off
4	2	Evap. 1 water outlet temp.	Circuit 1 and 2 off
		Evap. 3 water outlet temp.	Circuit 3 and 4 off
4	4	Evap. 1 water outlet temp.	Circuit 1 off
		Evap. 2 water outlet temp.	Circuit 2 off
		Evap. 3 water outlet temp.	Circuit 3 off
		Evap. 4 water outlet temp.	Circuit 4 off

9.1.2 Antifreeze prevention

Antifreeze prevention is managed by the Mod_Circuit_Prevent module. The prevention function needs to be enabled from the manufacturer menu on screen Hc07. If enabled is the prevention set point and differential can be set in the Temperature control menu on screen Gfc39, as well as the maximum number of activations per hour and the prevention activation delay on screen Gfc40. When a prevention request is activated, the Mod_Circuit_Prevent module calls (see chapter Circuit and compressor management - Lst_Prevent_Circuit and chapter Alarm prevention) Mod_Device_Rotation_2 to stop a compressor in the circuit in question. If the prevention condition persists, after a settable time (Gfc34) another deactivation request is sent. Mod Device Rotation 2 decides which compressor must be stopped based on the type of rotation selected. All the compressors will be stopped except for 1. If the prevention condition occurs more than a certain number of times in a set time (Gfc34), the prevention request is no longer sent, and the unit continues operating until all the compressors are deactivated (see the diagram)

Note: For details on the format of the list, see the description of Lst_Prevent_Circuit in chapter 6.5



For details, see the on-line documents on the Circuit_Prevent module.

9.1.3 Antifreeze heater

Chiller Core features a digital output for activating an antifreeze heater. The activation set point and differential can be set in the manufacturer menu on screen Hc09.

9.1.4 Interaction between antifreeze prevention alarm and heater

Below is the diagram highlighting the interactions between the actions that Chiller Core performs to prevent the unit from shutting down due to an antifreeze condition.

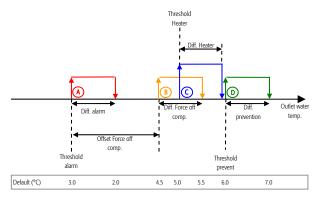


Fig.9.1.a

- Manufacturer parameters (Hc08)
 - Antifreeze alarm (ALB48 ALB49 ALU50)
 - Unit off
 - Pump forced on
- Manufacturer parameters (Hc10) Actions:

 - Compressor shutdown alarm
 - Compressors involved forced off (ALW31)
- Manufacturer parameters (Hc09)

Actions:

- Heater activation
- Temperature control parameters (Gfc39)
 - Active prevention warning (ALB51 ALB52 ALB53 ALB54 ALB55 ALU56)
 - Progressive compressor shutdown

9.2 Condenser antifreeze

The condenser antifreeze is only active on water/water chiller-heat pump units with reversible refrigerant circuit, during operation in heating mode. On all other types unit, antifreeze is only active on the evaporator.

Antifreeze is a serious alarm therefore, depending on the ratio between refrigerant circuits / number of evaporators, and whether condenser control is individual or separate, when activated either the entire unit, the pair of circuits or the single circuit are shut down and the condenser water circulating pump is activated. The summary table is shown below:

Circuits	No. of evap.	Type of cond.	Antifreeze probe used		Action of the alarm
			pCO3 / pCO5 Large	pCO3 / pCO5 average	
1	1	Individual	B10	B5	Unit off
2	1	Individual	B10	B5	Unit off
2	2	Separate	B10	N.O.	Circuit 1 off
			B4	N.O.	Circuit 2 off
3	1	Individual	B10	B5	Unit off
3	3	Separate	B10	N.O.	Circuit 1 off
			B4	N.O.	Circuit 2 off
			B10 slave	N.O.	Circuit 3 off
4	1	Individual	B10	B5	Unit off
4	2	Separate	B10	N.O.	Circuit 1 and 2 off
			B10 slave	N.O.	Circuit 3 and 4 off
4	4	Separate	B10	N.O.	Circuit 1 off
			B4	N.O.	Circuit 2 off
			B10 slave	N.O.	Circuit 3 off
			B4 slave	N.O.	Circuit 4 off



9.3 High pressure: alarm and prention

The high pressure alarm is managed by the Alarm_HighPressure_Adv macroblock. The Compressor_Alarm pages features 2 of these macroblocks, one for circuit 1-3, the other for circuit 2-4, depending on whether the software recognises the board with address 1 (master) or address 2 (slave). The alarm can be generated as follows:

1- By pressure switch, consequently by the status of the digital input connected to the high pressure switch.

This refers to alarm ALB36, which is cumulative for all the circuits:



In the figure it is assumed that the unit has 4 circuits and that circuit 1 has a high pressure alarm from pressure switch.

2- Based on the pressure value, and consequently the value of an analogue input, referring to a threshold and a differential (Gfc35).

This refers to alarm ALB37, which is cumulative for all the circuits:

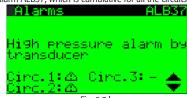


Fig. 9.3.b

In the figure it is assumed that the unit has 3 circuits and that circuits 1 and 2 have a high pressure alarm from pressure probe.

In Chiller Core, the alarm always has manual reset, however the macroblock allows automatic reset to be defined independently for the alarm from pressure switch and the alarm from transducer (see How to add a new alarm).

Chiller Core can perform a number of actions to prevent the high pressure alarm:

 Force condenser fans on at 100%. There is a fixed offset of 3.0barg in relation to the high pressure prevention threshold. If the high pressure prevention function is disabled, then the offset refers to the high pressure alarm threshold (Gfc33 default 23.0barg)

For further details see the chapter on Condenser fans;

2) High pressure is prevented by the Mod_Circuit_Prevent module. The prevention function needs to be enabled from the manufacturer menu on screen Hc07. If enabled, both the prevention set point and differential can be set in the temperature control menu on screen Gfc35 and the maximum number of activations per hour and the prevention activation delay can be set on screen Gfc36.

When a prevention request is activated, the Mod_Circuit_Prevent module calls (see the chapter on Circuit and compressor management Lst_Prevent_Circuit and the chapter on Alarm prevention) Mod_Device_Rotation_2 to stop a compressor in the circuit in question. If the prevention condition persists, after a settable time (Gfc34) another deactivation request is sent. Mod_Device_Rotation_2 decides which compressor must be stopped based on the type of rotation selected. All the compressors will be stopped except for 1.

If the prevention condition occurs more than a certain number of times in a set time (Gfc34), the prevention request is no longer sent, and the unit continues operating until the high pressure alarm from probe is activated (see diagram).

Below is a diagram that shows the sequence of operations and the corresponding defaults

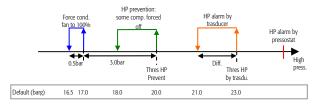


Fig. 9.3c

For details, see the on-line documents on the Alarm_HighPressure_Adv macroblock

9.4 Low pressure: alarm and prevention

The low pressure alarm is managed by the Alarm_LowPressure_Adv macroblock. The Compressor_Alarm pages features 2 of these macroblocks, one for circuit 1-3, the other for circuit 2-4, depending on whether the software recognises the board with address 1 (master) or address 2 (slave).

The alarm can be generated as follows:

1- By pressure switch, consequently by the status of the digital input connected to the low pressure switch.

This refers to alarm ALB34, which is cumulative for all the circuits:



Fig. 9.4.a

In the figure it is assumed that the unit has 3 circuits and that circuit 1 has a low pressure alarm from pressure switch

2- By transducer, consequently based on the value of an analogue input, referring to a threshold and a differential (Gfc30).

This refers to alarm ALB35, which is cumulative for all the circuits:



Fig. 9.4.

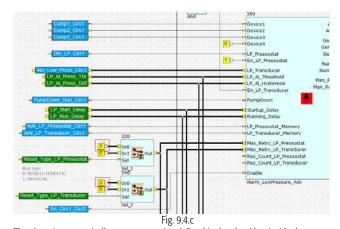
In the figure it is assumed that the unit has 3 circuits and that circuit 2 has a low pressure alarm from pressure probe.

The low pressure alarm can only occur if:

- At least 1 compressor is on in the circuit. The alarm can be manually reset when all the compressors in the circuit are off.
- There is no pump-down procedure in progress
- After the delay (Gfc34) from the start of each compressor in the circuit.
 Consequently, when a compressor starts in the circuit, the alarm is ignored for this time. This is to prevent natural pressure drops in the refrigerant circuit when the compressor starts from causing false low pressure alarms.

For both the low pressure alarm from pressure switch and from transducer, the type of reset can be set in the temperature control menu (Gfc35): semiautomatic or manual.

Semiautomatic: The number of alarm activations per hour are counted. If activated more than 3 times in a hour, the alarm changes to manual reset. The number of activations is set in the strategy (see the red squares in the following figure), and consequently is not modifiable from the user interface.



The alarm is automatically reset 3 seconds - defined in the algorithm inside the macroblock - after the compressors in the circuit have stopped. Each alarm, even those with automatic reset, are recorded in the alarm log.

Only if the alarm changes to manual reset will the digital input corresponding to the serious alarm relay be activated. Manual: Once activated, the alarm can only be reset manually on the display.

9.4.1 Low pressure prevention

Low pressure is prevented by the Mod_Circuit_Prevent module.

The prevention function needs to be enabled from the manufacturer menu on screen Hc07. If enabled, both the prevention set point and differential can be set in the temperature control menu on screen Gfc37 and the maximum number of activations per hour and the prevention activation delay can be set on screen Gfc38. When a prevention request is activated, the Mod_Circuit_Prevent module calls (see the chapter on Circuit and compressor management Lst_Prevent_Circuit and the chapter on Alarm prevention) Mod_Device_Rotation_2 to stop a compressor in the circuit in question. If the prevention condition persists, after a settable time (Gfc34) another deactivation request is sent. Mod_Device_Rotation_2 decides which compressor must be stopped based on the type of rotation selected. All the compressors will be stopped except for 1.

If the prevention condition occurs more than a certain number of times in a set time (Gfc34), the prevention request is no longer sent, and the unit continues operating until the low pressure alarm from probe is activated (see diagram).

Below is a diagram that shows the sequence of operations and the corresponding defaults

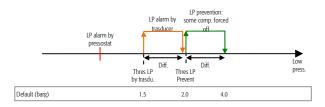


Fig. 9.4.d

For details, see the on-line documents on the Alarm_LowPressure_Adv macroblock

9.5 Manual/automatic alarm reset

Alarm reset can be manual, automatic or semiautomatic:

- Manual reset: once the causes of the alarm have been resolved, first the buzzer needs to be muted by pressing ALARM and then the actual alarm cancelled by pressing ALARM again.
- Automatic reset: when the alarm condition ends the buzzer is automatically muted and the alarm is reset.
- Semiautomatic: the number of activations in one hour is counted: if the number of activations in one hour is less than the maximum number set, reset is automatic, while over the limit reset is manual.

9.5.1 Behaviour of the alarm button and LED

The ALARM button can be pressed in two different contexts: no alarm active, or at least one alarm active.

1- If no alarm is active, the following screen is displayed:

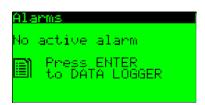


Fig. 9.5.a

This is the last screen in the loop and provides easy access to the alarm log by pressing ENTER.

2- If at least one alarm is active, the alarm screen is displayed, the first screen in order in the loop. At the bottom right there are two flashing arrows that indicate the need to press UP or DOWN in order to scroll to any other alarms: Example





Fig. 9.5.b

Scrolling the loop of alarms with the DOWN button ends at the last screen in the loop, which has the following layout:



Fig. 9.5.c

The screen is the same as in case 1, except the message "No active alarms" is not shown, and an up arrow indicates that this is the end of the loop of alarms. In this case too, the alarm log can be accessed by pressing ENTER.

As regards the red LED under the ALARM button, this may be:

- Off: no active alarms;
- Flashing: there is at least one active alarm and the display is showing a screen that is not in the alarm loop;
- On: there is at least one active alarm and the display is showing a screen in the alarm loop.

9.5.2 How to add a new alarm

Manual rese

To add a new alarm with manual reset, add an alarm screen to the ALARM loop, associating the corresponding alarm memory and alarm status variables.

Automatic reset

To add an alarm with automatic reset, enter a normal screen in the ALARM loop and enter the alarm variable in the "EnableOn" screen property.

For all types of alarms, automatic or manual reset, the "ReferToMask" screen property must be added to the "m_Ref_Alarms" screen.

For management of the buzzer and the LED, activation and deactivation are controlled manually by the MANUAL_BUZZER_ON and MANUAL_BUZZER_OFF system variables. The strategy features a special function dedicated to the Alarms_Mng page:

- For alarms with manual reset nothing is required, as the Global_Alarm system variable is sufficient
- For alarms with automatic reset, simply add the new alarm variable with an OR relationship with all the other alarms.



9.6 Alarm log

From the main menu, a special branch (E. Data logger) provides access to the alarm log screen.



Fig. 9.6.a

The information shown on the screen relates to:

- Index of the screen;
- Chronological number of the event (indicates how "old" it is: NO001 is the oldest alarm) + the time and date of the alarm;
- Code of the alarm (see chap. 9.7 Table of alarms);
- 4. Short description of the alarm logged;
- 5. Inlet and output temperature values.

Note: A maximum of 50 alarms can be logged, above this limit, new events overwrite the older ones, which are consequently deleted.

9.6.1 How to increase the maximum number of alarms logged and the type of memory

Accessing the strategy page corresponding to task-A, as shown in the figure below:



Fig. 9.6.b

both the memory (default type T memory) and the maximum number of alarms logged (default 100 events) can be defined. The following figure highlights these two parameters.



Fig. 9.6.c

Note: The log must be assigned to permanent memory, such as:

- T: Main permanent memory (non-volatile memory)
- P: Extended permanent memory (non-volatile memory)
- E: Non-volatile RAM embedded on the clock card, 52 bytes

On the pCO3 / pCO5 these are all always available.

When using memory, always check the limits of space and the allowable number of writes

E.g.: Chiller Core can support a maximum limit of 510alarms in T memory. This limit decreases when new variables are added to T memory, or increases if variables are deleted.

This means that if the amount of space in T memory needs to be increased, the number of events to be stored in the log can be reduced.

9.6.2 How to add an alarm to the log

To add an alarm to the log, proceed as follows:

 In the current management, add the part of the atoms highlighted by the red rectangle in the figure below and connect it to the rest of the algorithm, in the same way as for the previous alarms.

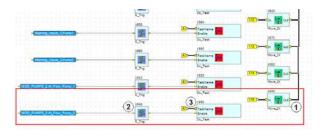


Fig. 9.6.d

- Follow the order of execution of the blocks indicated by the numbers in the figure shown in point 2) <u>EXACTLY</u>.
- 4) Replace the alarm variable with the new alarm
- 5) Increase the number related to the Move_IX atom by 1: using the example in the figure shown in point 2), this increases from 115 to 116.
- 6) On the log screen, add the description of the new alarm. To do this, 3 special fields need to be edited:
 - 1- sf_Alarm_History_Data_1: Alarm code
 - 2- sf_Alarm_History_Data_2: Description, first row
 - 3- sf_Alarm_History_Data_3: Description, second row

For each of these, the text needs to be entered for the value of the number relating to the Move_IX atom (see point 5), therefore following the same example, for the value 116

The following figure shows an example of how to update the special field sf_Alarm_History_Data_1.

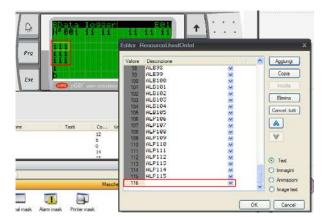


Fig. 9.6.e





9.7 Table of alarms

Code	Description on display	Reset	Delay	Alarm relay	Action
ALG01	Clock card broken or disconnected	Manual	NO	NO	NO
ALG02	Memory expansion damaged	Manual	NO	NO	NO
ALR03	Serious alarm from digital input	Manual	NO	YES	Unit OFF
ALO04	Slave offline	Auto	Start 30s Steady 20s	YES	Circ. 3-4 OFF
ALA05	High pressure probe circuit 1 broken or disconnected	Auto	10s fixed	YES	Circ. 1 comp OFF
ALA06	High pressure probe circuit 2 broken or disconnected	Auto	10s fixed	YES	Circ. 2 comp OFF
ALA07	High pressure probe circuit 3 broken or disconnected	Auto	10s fixed	YES	Circ. 3 comp OFF
ALA08	High pressure probe circuit 4 broken or disconnected	Auto	10s fixed	YES	Circ. 4 comp OFF
ALA09	Low pressure probe 1 broken or disconnected	Auto	10s fixed	YES	Circ. 1 comp OFF
ALA10	Low pressure probe 2 broken or disconnected	Auto	10s fixed	YES	Circ. 2 comp OFF
ALA11	Low pressure probe 3 broken or disconnected	Auto	10s fixed	YES	Circ. 3 comp OFF
ALA12	Low pressure probe 4 broken or disconnected	Auto	10s fixed	YES	Circ. 4 comp OFF
ALA13	Evap. water inlet temperature probe broken or disconnected	Auto	10s fixed	YES	Unit OFF
ALA14	Cond. water inlet temperature probe broken or disconnected	Auto	10s fixed	YES	Unit OFF (valid for WW in heat pump with reversible water circuit)
ALA15	Evap. water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Unit OFF
ALA16	Evap. 1 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 1/
7.5110	and the same and the same process of the same and the sam	, add	ros inica	123	Circ. 1-2 OFF
ALA17	Evap. 2 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 2/ Circ. 3-4 OFF
ALA18	Evap. 3 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 3 comp OFF
ALA19	Evap. 4 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 4 comp OFF
ALA20	Cond. 1 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Unit/Circ. 1/ Circ. 1-2 OFF
ALA21	Cond. 2 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 2
ALA22	Cond. 3 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 3-4/Circ. 3 OFF
ALA23	Cond. 4 water outlet temperature probe broken or disconnected	Auto	10s fixed	YES	Circ. 4 OFF
ALA24	Evaporator water temperature probe broken or disconnected	Auto	10s fixed	YES	Unit OFF
ALA25	Outside temperature probe broken or disconnected	Auto	10s fixed	YES	NO
ALT26	Maintenance request, compressor 1 circuit 1	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 2 circuit 1	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 3 circuit 1	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 1 circuit 2	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 2 circuit 2	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 3 circuit 2	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 1 circuit 3	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 2 circuit 3	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 3 circuit 3	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 1 circuit 4	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 2 circuit 4	Manual	NO	NO	NO
ALT26	Maintenance request, compressor 3 circuit 4	Manual	NO	NO	NO
ALT27	Maintenance request, condenser fan group 1	Manual	NO	NO	NO
ALT27	Maintenance request, condenser fan group 2	Manual	NO	NO	NO
ALT28	Maintenance request, condenser pump 1	Manual	NO	NO	NO
ALT28	Maintenance request, condenser pump 1	Manual	NO	NO	NO
ALT29	Maintenance request, condenser pump 2 Maintenance request, evaporator pump 1	Manual	NO	NO	NO
ALT29	Maintenance request, evaporator pump 2	Manual	NO	NO	NO
ALC30	Overload, compressor 1 circuit 1	Manual	NO	YES	Circ. 1 comp. 1 OFF
ALC30	•		NO	YES	
	Overload, compressor 2 circuit 1	Manual			Circ. 1 comp. 2 OFF
ALC30	Overload, compressor 3 circuit 1	Manual	NO NO	YES	Circ. 1 comp. 3 OFF
ALC30	Overload, compressor 1 circuit 2	Manual	NO NO	YES	Circ. 2 comp. 1 OFF
ALC30	Overload, compressor 2 circuit 2	Manual	NO NO	YES	Circ. 2 comp. 2 OFF
ALC30	Overload, compressor 3 circuit 2	Manual	NO	YES	Circ. 2 comp. 3 OFF
ALC30	Overload, compressor 1 circuit 3	Manual	NO	YES	Circ. 3 comp. 1 OFF
ALC30	Overload, compressor 2 circuit 3	Manual	NO	YES	Circ. 3 comp. 2 OFF





Code	Description on display	Reset	Delay	Alarm relay	Action
ALC30	Overload, compressor 3 circuit 3	Manual	NO	YES	Circ. 3 comp. 3 OFF
ALC30	Overload, compressor 1 circuit 4	Manual	NO	YES	Circ. 4 comp. 1 OFF
ALC30	Overload, compressor 2 circuit 4	Manual	NO	YES	Circ. 4 comp. 2 OFF
ALC30	Overload, compressor 3 circuit 4	Manual	NO	YES	Circ. 4 comp. 3 OFF
ALW31	Compressors in circuit 1 forced off for antifreeze	Auto	NO	NO	Circ. 1 Comp OFF
ALW31	Compressors in circuit 2 forced off for antifreeze	Auto	NO	NO	Circ. 2 Comp OFF
ALW31	Compressors in circuit 3 forced off for antifreeze	Auto	NO	NO	Circ. 3 Comp OFF
ALW31	Compressors in circuit 4 forced off for antifreeze	Auto	NO	NO	Circ. 4 Comp OFF
ALW32	Circuit 1 end defrost by maximum time	Manual	NO	NO	NO
ALW32	Circuit 2 end defrost by maximum time	Manual	NO	NO	NO
ALW32	Circuit 3 end defrost by maximum time	Manual	NO	NO	NO
ALW32	Circuit 4 end defrost by maximum time	Manual	NO	NO	NO
ALW33	Circuit 1 end pump-down by maximum time	Manual	NO	NO	NO
ALW33	Circuit 2 end pump-down by maximum time	Manual	NO	NO	NO
ALW33	Circuit 3 end pump-down by maximum time		NO	NO	NO
		Manual			
ALW33	Circuit 4 end pump-down by maximum time	Manual	NO	NO .	NO NO
ALB34	Low pressure from pressure switch circuit 1	Semiauto / Manual	Start 40s configurable Steady 0s configurable	If manual reset	Circ. 1 comp OFF
ALB34	Low pressure from pressure switch circuit 2	Semiauto / Manual	Start	If manual reset	Circ. 2
			40s configurable Steady		comp OFF
ALB34	Low pressure from pressure switch circuit 3	Semiauto / Manual	0s configurable Start	If manual reset	Circ. 3
ALD34	Low pressure from pressure switch circuit 5	·	40s configurable Steady 0s configurable	ii manuai reset	comp OFF
ALB34	Low pressure from pressure switch circuit 4	Semiauto / Manual	Start 40s configurable Steady	If manual reset	Circ. 4 comp OFF
			0s configurable		'
ALB35	Low pressure from probe circuit 1	Semiauto / Manual	Start 40s configurable Steady 0s configurable	If manual reset	Circ. 1 comp OFF
ALB35	Low pressure from probe circuit 2	Semiauto / Manual	Start 40s configurable Steady	If manual reset	Circ. 2 comp OFF
			Os configurable		comp or r
ALB35	Low pressure from probe circuit 3	Semiauto / Manual	Start 40s configurable Steady 0s configurable	If manual reset	Circ. 3 comp OFF
ALB35	Low pressure from probe circuit 4	Semiauto / Manual	Start	If manual reset	Circ. 4
	, ,		40s configurable Steady 0s configurable		comp OFF
ALB36	High pressure from pressure switch circuit 1	Manual	NO	YES	Circ. 1 comp OFF
ALB36	High pressure from pressure switch circuit 2	Manual	NO	YES	Circ. 2 comp OFF
ALB36	High pressure from pressure switch circuit 3	Manual	NO	YES	Circ. 3 comp OFF
ALB36	High pressure from pressure switch circuit 4	Manual	NO	YES	Circ. 4 comp OFF
ALB37	High pressure from probe circuit 1	Manual	NO	YES	Circ. 1 comp OFF
ALB37	High pressure from probe circuit 2	Manual	NO	YES	Circ. 2 comp OFF
ALB37	High pressure from probe circuit 3	Manual	NO	YES	Circ. 3 comp OFF
ALB37	High pressure from probe circuit 4	Manual	NO	YES	Circ. 4 comp OFF
ALP38	No flow warning evaporator pump 1		20s configurable	NO	NO
ALP39	No flow warning evaporator pump 2	Auto	20s configurable	NO	NO
ALP40	No flow evaporator pump 1	Manual	NO	YES	Unit OFF/NO
ALP41	No flow evaporator pump 2	Manual	NO	YES	Unit OFF/NO
ALP42	Evaporator pump 1 overload	Manual	NO	YES	Unit OFF/NO
ALP43	Evaporator pump 2 overload	Manual	NO	YES	Unit OFF/NO
ALP44	No flow warning condenser pump 1	Auto	20s configurable	NO	NO
ALP45	No flow warning condenser pump 2	Auto	20s configurable	NO	NO
ALP46	No flow condenser pump 1	Manual	NO	YES	Unit OFF/NO
ALP47	No flow condenser pump 2	Manual	NO	YES	Unit OFF/NO
ALB49	Antifreeze alarm circuits 1-2	Manual	NO	YES	Circ. 1-2 comp OFF
ALB49	Antifreeze alarm circuits 3-4	Manual	NO	YES	Circ. 3-4 comp OFF
ALU50	Unit antifreeze alarm	Manual	NO	YES	Unit OFF
ALB51	High pressure prevention warning circuit 1	Auto	5s configurable	NO	Decrease capacity circ. 1
ALB51	Low pressure prevention warning circuit 1	Auto	5s configurable	NO	Decrease capacity circ. 1





Code	Description on display	Reset	Delay	Alarm relay	Action
ALB51	Antifreeze prevention warning circuit 1	Auto	5s configurable	NO	Decrease capacity circ. 1
ALB52	High pressure prevention warning circuit 2	Auto	5s configurable	NO	Decrease capacity circ. 2
ALB52	Low pressure prevention warning circuit 2	Auto	5s configurable	NO	Decrease capacity circ. 2
ALB52	Antifreeze prevention warning circuit 2 High pressure prevention warning circuit 3	Auto	5s configurable	NO NO	Decrease capacity circ. 2
ALB53 ALB53	Low pressure prevention warning circuit 3	Auto Auto	5s configurable 5s configurable	NO NO	Decrease capacity circ. 3 Decrease capacity circ. 3
ALB53	Antifreeze prevention warning circuit 3	Auto	5s configurable	NO	Decrease capacity circ. 3
ALB54	High pressure prevention warning circuit 4	Auto	5s configurable	NO	Decrease capacity circ. 4
ALB54	Low pressure prevention warning circuit 4	Auto	5s configurable	NO	Decrease capacity circ. 4
ALB54	Antifreeze prevention warning circuit 4	Auto	5s configurable	NO	Decrease capacity circ. 4
ALB55	Antifreeze prevention warning circuits 1-2	Auto	5s configurable	NO	Decrease capacity circ. 1&2
ALB55	Antifreeze prevention warning circuits 3-4	Auto	5s configurable	NO	Decrease capacity circ. 3&4
ALU56 ALD57	Unit antifreeze prevention warning Probe S1 alarm	Auto Auto	5s configurable NO	NO YES	Decrease unit capacity Circ. 1
	Trobe 31 diditi	Adio	110		Comp. OFF
ALD57	Probe S2 alarm	Auto	NO	YES	Circ. 1 Comp. OFF
ALD57	Probe S3 alarm	Auto	NO	YES	Circ. 2 Comp. OFF
ALD57	Probe S4 alarm	Auto	NO	YES	Circ. 2 Comp. OFF
ALD58	Low SH alarm, valve A circuit 1	Manual	10s configurable	YES If configured	Circ. 1 Comp. OFF (if configured)
ALD58	Low SH alarm, valve B circuit 2	Manual	10s configurable	YES If configured	Circ. 2 Comp. OFF (if configured)
ALD59	Low evaporation temperature, valve A circuit 1	Manual	15s configurable	YES If configured	Circ. 1 Comp. OFF (if configured)
ALD59	Low evaporation temperature, valve B circuit 2	Manual	15s configurable	YES If configured	Circ. 2 Comp. OFF (if configured)
ALD60	High evaporation temperature, valve A circuit 1	Manual	25s configurable	YES If configured	Circ. 1 Comp. OFF (if configured)
ALD60	High evaporation temperature, valve B circuit 2	Manual	25s configurable	YES If configured	Circ. 2 Comp. OFF (if configured)
ALD61	High condensing temperature	Manual	20s	YES	Circ. 1 and circ.2
ALD62	EEPROM alarm	Manual	configurable NO	If configured YES	Comp. OFF (if configured) NO
ALD63	EEV motor error alarm, valve A circuit 1	Manual	NO	YES	Circ. 1
ALD63	EEV motor error alarm, valve B circuit 2	Manual	NO	YES	Comp. OFF Circ. 2
ALDOS	EEV Motor error alarm, valve B circuit 2	Manual	NO	TES .	Comp. OFF
ALO64	Driver Offline	Auto	30s Fixed at start-up 20s fixed steady	YES	Circ. 1 and circ.2 Comp. OFF
ALD65	Low suction temperature alarm, valve A circuit 1	Manual	15s configurable	NO	NO
ALD65	Low suction temperature alarm, valve B circuit 2	Manual	15s configurable	NO	NO
ALD66	Battery discharged	Auto	NO	YES If configured	Circ. 1 and circ.2 Comp. OFF (if configured)
ALD68	Probe S1 alarm	Auto	NO	YES	Circ. 3 Comp OFF
ALD68	Probe S2 alarm	Auto	NO	YES	Circ. 3 Comp OFF
ALD68	Probe S3 alarm	Auto	NO	YES	Circ. 4 Comp OFF
ALD68	Probe S4 alarm	Auto	NO	YES	Circ. 4 Comp OFF
ALD69	Low SH alarm, valve A circuit 3	Manual	10s configurable	YES If configured	Circ. 3 Comp. OFF (if configured)
ALD69	Low SH alarm, valve B circuit 4	Manual	10s configurable	YES If configured	Circ. 4 Comp. OFF (if configured)
ALD70	Low evaporation temperature, valve A circuit 3	Manual	15s configurable	YES If configured	Circ. 3 Comp. OFF (if configured)
ALD70	Low evaporation temperature, valve B circuit 4	Manual	15s configurable	YES If configured	Circ. 4 Comp. OFF (if configured)
ALD71	High evaporation temperature, valve A circuit 3	Manual	25s	YES	Circ. 3
ALD71	High evaporation temperature, valve B circuit 4	Manual	configurable 25s configurable	If configured YES If configured	Comp. OFF (if configured) Circ. 4 Comp. OFF (if configured)
ALD72	High condensing temperature	Manual	20s configurable	YES	Circ. 3 and circ.4 Comp. OFF (if configured)
ALD73	EEPROM Alarm	Manual	NO NO	If configured YES	Circ. 3
ALD74	EEV motor error alarm, valve A circuit 3	Manual	NO	YES	Comp OFF Circ. 3
ALD74	EEV motor error alarm, valve B circuit 4	Manual	NO	YES	Comp OFF Circ. 4
ALO75	Driver Offline	Auto	30s	YES	Comp OFF Circ. 3 and circ.4
			Fixed at start-up		Comp. OFF





Code	Description on display	Reset	Delay	Alarm relay	Action
			20s fixed steady		
ALD76	Low suction temperature alarm, valve A circuit 3		15s configurable	NO	NO
ALD76	Low suction temperature alarm, valve B circuit 4		15s configurable	NO	NO
ALD77	Battery discharged	Auto			Circ. 3 and circ.4 Comp. OFF (if configured)

CAREL reserves the right to modify or change its products without prior warning.



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