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## PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power.
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS.
- Disconnect the power supply before doing any type of maintenance.
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

4.4 Activate manual defrost (if r5 = 0, default) Check that the keypad is not locked and that overcooling is not active. ₩ Ø 1. Touch the DEFROST key for 2s. If P3 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold Cabinet light on/off (if u1c... u6c = 5) 4.5 Touch the CABINET LIGHT key. 1. Button-operated load on/off (if u1c... u6c = 10 or 11) 4.6 P 2 Touch the CABINET LIGHT key (for 2s if u1c... u6c = 5). 1. If u1c...u6c = 6, the **demisting** switch on for the u6 duration. 4.7 Silence buzzer (if u9 = 1, default) Touch a key. If u1c...u6c = 11 and u4 = 1, the alarm output is deactivated 5 ADDITIONAL FUNCTIONS

5.1 Activate/deactivate overcooling and overheating Check that the keypad is not locked.

Touch the UP key for 2s.

1.

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0 and defrost not	the setpoint becomes "setpoint -
	active	r6", for the r7 duration
overheating	r5 = 1	the setpoint becomes "setpoint +
		r6", for the r7 duration

4.	Ý		Touch the UP or DOWN key within 15s to set the year.		
5.	Repeat	t actions 3 ar	nd 4 to set the next labels.		
	LAB.	MEANING C	F THE NUMBERS FOLLOWING THE LABEL		
	n	month (01.	. 12)		
	d	day (01 3	1)		
	h	time (00 2	23)		
	n	minutes (00	) 59)		
6.	<b>a</b> e	ЭЕТ	Touch the SET key: the display will show the label for the day of the week.		
7.	۲ <b>–</b>		Touch the UP or DOWN key within 15s to set the day of the week.		
	LAB.	DESCRIPTIO	ON		
	Mon	Monday			
	tuE	Tuesday			
	UEd	Wednesday			
	thu	Thursday			
	Fri	Friday			
	Sat	Saturday			
	Sun	Sunday			
8.	<b>a</b> e	эет	Touch the SET key: the device will exit the procedure.		
9.		1	Touch the ON/STAND-BY key to exit the procedure beforehand.		

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 6.3

 Reset the factory settings

0.5	Reset the factory	Secting 5
Ö <sub>0</sub>	N.B. Check that the fac PARAMETERS.	ctory settings are appropriate; see the section CONFIGURATION
1.	≙ SET	Touch the SET key for 4s: the display will show the label " <b>PA</b> ".
2.	<b>≙</b> SET	Touch the SET key.
3.	ا •∎ <u>`</u>	Touch the UP or DOWN key within 15s to set "149".
4.	≙ SET	Touch the SET key (or do not operate for 15s): the display will show the label " <b>dEF</b> ".
5.	≙ SET	Touch the SET key.
6.	<u>با المحمد الم</u>	Touch the UP or DOWN key within 15s to set " $1$ ".
7.	<b>≙</b> SET	Touch the SET key (or do not operate for 15s).
8.	Interrupt the powe	r supply to the device.
9.	≙set	Touch the SET key for 2s before action 6 to exit the procedure beforehand.
7	CONFIGURATION	PARAMETERS

IJ	Ν.	PAR.	DEF.	SETPOINT	MIN MAX.
<u> </u>	1	SP	0.0	setpoint	r1 r2
	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F
					if P4 = 3, air in probe offset
	3	CA2	0.0	evaporator probe offset	-25 25 °C/°F
	4	CA3	0.0	auxiliary probe offset	-25 25 °C/°F
	5	PO	2	probe type	0 = PTC 1 = NTC 2 = Pt 1000
	6	P1	1	enable °C decimal point	0 = no 1 = yes
	7	P1 P2	0		0 = 10 $1 = yes0 = °C$ $1 = °F$
	Ĺ	P2		temperature unit of measurement	
	8	P3	1	evaporator probe function	0 = disabled 1 = defrost + fan 2 = fan
O,	9	P4	0	configurable input function	0 = digital input 1 = condenser probe 2 = critical temperature probe 3 = air out probe if P4 = 3, regulation temperature = product temperature (CPT)
	10	Р5	0	value displayed	0 = regulation temperature 1 = setpoint 2 = evaporator temperature 3 = auxiliary temperature 4 = air in temperature
	11	P7	50	inlet air weight for calculated product temperature (CPT)	0 100 % CPT = {[(P7 x (inlet air T)] + [(100 - P7) x (outlet air T)] : 100}
	12	P8	5	display refresh time	0 250 s : 10
	Ν.	PAR.	DEF.	REGULATION	MIN MAX.
	13	r0	2.0	setpoint differential	1 15 °C/°F
	14	r1	-40	minimum setpoint	-99 °C/°F r2
	15	r2	50.0	maximum setpoint	r1 199 °C/°F
	16	r3	0	enable setpoint block	0 = no 1 = yes
- •	17	r4	0.0	setpoint offset in energy saving	0 99 °C/°F
4	18	r5	0	cooling or heating operation	0 = cooling
					1 = heating
	19	r6	0.0	setpoint offset in	1 = heating 0 99 °C/°F
				overcooling/overheating	0 99 °C/°F
	20	r7	0	overcooling/overheating overcooling/overheating duration	0 99 °C/°F 0 240 min
				overcooling/overheating	0 99 °C/°F 0 240 min 0 = asymmetric
	20 21	r7 r12	0	overcooling/overheating overcooling/overheating duration position of the r0 differential	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric
	20 21 N.	r7 r12 PAR.	0 1 DEF.	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX.
	20 21	r7 r12	0	overcooling/overheating overcooling/overheating duration position of the r0 differential	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric
	20 21 N.	r7 r12 PAR.	0 1 DEF.	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX.
	20 21 N. 22	r7 r12 PAR. C0	0 1 DEF. 0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min
	20 21 N. 22 23	r7 r12 PAR. C0 C1	0 1 DEF. 0 5	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min
	20 21 N. 22 23 24	r7 r12 PAR. C0 C1 C2	0 1 DEF. 0 5 3	overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off time during	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s
	20 21 N. 22 23 24 25	r7 r12 PAR. C0 C1 C2 C2 C3	0 1 DEF. 0 5 3 0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor off time during cabinet probe alarm	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s
	20 21 N. 22 23 24 25 26	r7 r12 PAR. C0 C1 C2 C3 C4	0 1 DEF. 0 5 3 0 10	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off minimum time compressor off time during cabinet probe alarm	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min
	20 21 N. 22 23 24 25 26 27	r7 r12 PAR. C0 C1 C2 C3 C4 C5	0 1 DEF. 0 5 3 0 10	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off minimum time compressor off time during cabinet probe alarm	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min
	20 21 N. 22 23 24 25 26 27 28	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6	0 1 DEF. 0 5 3 0 10 10 80.0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor on fit ime during cabinet probe alarm threshold for high condensation warning	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min
	20 21 N. 22 23 24 25 26 27 28	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6	0 1 DEF. 0 5 3 0 10 10 80.0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor on fime during cabinet probe alarm compressor on time during cabinet probe alarm threshold for high condensation warning	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min
	20 21 N. 22 23 24 25 26 27 28 29	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C6 C7	0 1 DEF. 0 3 3 0 10 10 80.0 90.0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off time during cabinet probe alarm compressor on time during cabinet probe alarm threshold for high condensation alarm	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 199 °C/°F 0 199 °C/°F 0 15 min 0 999 h x 100
	20 21 N. 22 23 24 25 26 27 28 29 30	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C6 C7 C8	0 1 DEF. 0 5 3 0 10 10 80.0 90.0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor on fitime during cabinet probe alarm compressor on time during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F
	20 21 N. 22 23 24 25 26 27 28 29 30 31 32	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C8 C10 C11	0 1 DEF. 3 0 10 10 80.0 90.0 1 0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on finimum time compressor on fill time during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s
	20 21 22 23 24 25 26 27 28 29 30 31 31 32 N.	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C6 C7 C8 C10 C11 PAR.	0 1 DEF. 3 0 10 10 80.0 90.0 1 0 10 0 DEF.	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor on filme during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay DEFROST (if r5 = 0)	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX.
	20 21 N. 22 23 24 25 26 27 28 29 30 31 32	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C8 C10 C11	0 1 DEF. 3 0 10 10 80.0 90.0 1 0	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on finimum time compressor on fill time during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX. 0 99 h 0 = only manual
	20 21 22 23 24 25 26 27 27 28 29 30 31 31 32 33	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C7 C8 C10 C11 PAR. d0	0 1 DEF. 0 3 0 10 80.0 90.0 1 0 DEF. 8	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off time during cabinet probe alarm compressor on time during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay DEFROST (if r5 = 0) automatic defrost interval	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX. 0 99 h 0 = only manual if d8 = 3, maximum interval
	20 21 22 23 24 25 26 27 28 29 30 31 31 32 N.	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C6 C7 C8 C10 C11 PAR.	0 1 DEF. 3 0 10 10 80.0 90.0 1 0 10 0 DEF.	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on minimum time compressor on filme during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay DEFROST (if r5 = 0)	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX. 0 99 h 0 = only manual if $d8 = 3$ , maximum interval 0 = electric 1 = hot gas
	20 21 N. 22 23 24 25 26 27 27 28 29 30 31 31 32 32 33 34	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C8 C10 C11 PAR. d0 d1	0 1 DEF. 3 0 10 10 80.0 90.0 10 10 0 DEF. 8	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor on finimum time compressor on finimum time compressor on fill time during cabinet probe alarm threshold for high condensation alarm threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay DEFROST (if r5 = 0) automatic defrost interval	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX. 0 99 h 0 = only manual if d8 = 3, maximum interval 0 = electric 1 = hot gas 2 = compressor stopped
	20 21 22 23 24 25 26 27 27 28 29 30 31 31 32 33	r7 r12 PAR. C0 C1 C2 C3 C4 C5 C6 C7 C6 C7 C7 C8 C10 C11 PAR. d0	0 1 DEF. 0 3 0 10 80.0 90.0 1 0 DEF. 8	overcooling/overheating overcooling/overheating duration position of the r0 differential COMPRESSOR compressor on delay after power-on delay between 2 compressor switch-ons compressor off minimum time compressor off time during cabinet probe alarm compressor on time during cabinet probe alarm threshold for high condensation warning threshold for high condensation alarm high condensation alarm delay compressor hours for service second compressor switch-on delay DEFROST (if r5 = 0) automatic defrost interval	0 99 °C/°F 0 240 min 0 = asymmetric 1 = symmetric MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 240 min 0 240 min 0 240 min 0 240 min 0 199 °C/°F differential = 2 °C/4 °F 0 199 °C/°F 0 199 °C/°F 0 15 min 0 999 h x 100 0 = disabled 0 240 s MIN MAX. 0 99 h 0 = only manual if $d8 = 3$ , maximum interval 0 = electric 1 = hot gas

	49	d21	200	compressor on consecutive time	0 500 min	1	89	i10	O	door closed consecutive time for	0 999 min
				for defrost after power-on and overcooling	if (regulation temperature - setpoint) > 10°C/20 °F					energy saving	after regulation tempe < SP
	50	d22	-2.0	evaporation threshold for	0 = disabled -10 10 °C/°F		90	i13	180	number of door openings for	0 = disabled 0 240
				adaptive defrost interval counting (relative to optimal evaporation	optimal evaporation temperature + d22		91	i14	32	defrost door open consecutive time for	0 = disabled 0 240 min
	51	d25	0	temperature) enable air out probe for defrost	0 = no 1 = yes		Ν.	PAR.	DEF.	defrost DIGITAL OUTPUTS	0 = disabled MIN MAX.
	52	d26	6	during evaporator probe alarm defrost interval during			92	u1c	0	relay K1 configuration	0 = first compressor 1 = second compressor
				evaporator probe alarm	0 = only manual if $d25 = 1$						2 = evaporator fan 3 = condenser fan
	N. 53	PAR. A0	DEF.	ALARMS select value for high/low	MIN MAX. 0 = regulation temperature						4 = defrost 5 = cabinet light
	55	A0 A1	0.0	temperature alarms	1 = evaporator temperature						6 = demisting 7 = door heaters
				threshold for low temperature alarm							8 = heater for neutral 2 9 = dripping heater
	55	A2	0	low temperature alarm type	0 = disabled 1 = relative to setpoint						10= button-operated lo 11= button-operated lo
	56	A4	0.0	threshold for high temperature	2 = absolute -99 99 °C/°F						12= alarm 13= on/stand-by
	57	A5	0	alarm high temperature alarm type	0 = disabled		93	u2c	4	relay K2 configuration	0 = first compressor
					1 = relative to setpoint 2 = absolute						1 = second compressor 2 = evaporator fan
	58	A6	120	high temperature alarm delay after power-on	0 240 min						3 = condenser fan 4 = defrost
	59	A7	15	high/low temperature alarms delay	0 240 min						5 = cabinet light 6 = demisting 7 = door heaters
	60	A8	15	high temperature alarm delay after defrost	0 240 min						8 = heater for neutral : 9 = dripping heater
	61	A9	15	high temperature alarm delay after door closing	0 240 min						10= button-operated lo
	62	A10	10	power failure duration for alarm	0 240 min						11= button-operated lo 12= alarm
				recording			94	u3c	5	relay K3 configuration	13= on/stand-by0 = first compressor
	63	A11	2.0	high/low temperature alarms reset differential	1 15 °C/°F						1 = second compressor 2 = evaporator fan
	64	A12	0	power failure alarm notification type	0 = HACCP LED 1 = HACCP LED + PF label +						3 = condenser fan 4 = defrost
					buzzer 2 = HACCP LED + PF label +						5 = cabinet light 6 = demisting
	N.	PAR.	DEF.	FANS	buzzer (if duration > A10) MIN MAX.						7 = door heaters 8 = heater for neutral :
	65	F0	1	evaporator fan mode during normal operation	$0 = \text{off} \qquad 1 = \text{on}$ 2 = on if compressor on						9 = dripping heater 10= button-operated lo
					3 = thermoregulated (with regulation temperature						11= button-operated lo 12= alarm
					+ F1) 4 = thermoregulated (with		95	u4c	2	relay K4 configuration	13= on/stand-by 0 = first compressor
					regulation temperature + F1) if compressor on						1 = second compressor 2 = evaporator fan
					5 = according to F6 6 = thermoregulated (with F1)	~					3 = condenser fan 4 = defrost
					7 = thermoregulated (with F1) if compressor on						5 = cabinet light 6 = demisting
	66	F1	-4.0	threshold for evaporator fan operation							7 = door heaters 8 = heater for neutral :
	67	F2	0	evaporator fan mode during defrost and dripping	0 = off   1 = on 2 = according to F0						9 = dripping heater 10= button-operated lo
	68	F3	2	evaporator fan off maximum time							11= button-operated lo 12= alarm
	69	F4	30	evaporator fan off time during energy saving	0 240 s x 10 if F0 ≠ 5		96	u5c	3	relay K5 configuration	13= on/stand-by 0 = first compressor
	70	F5	30	evaporator fan on time during energy saving							1 = second compressor 2 = evaporator fan 2 = condensor fan
	71	F6	0	high/low humidity operation	0 = low humidity (with F17 and F18 if compressor						3 = condenser fan 4 = defrost 5 = cabinet light
<b>S</b>					off, on if compressor on) 1 = high humifity (on)						6 = demisting 7 = door heaters
	72	F7	5.0	threshold for evaporator fan on after dripping (relative to	-99 99 °C/°F						8 = heater for neutral 2 9 = dripping heater
	73	F8	2.0	setpoint) threshold for evaporator fan							10= button-operated lo 11= button-operated lo
	74	F9	10	operation differential evaporator fan off delay after	· · · · · · · · · · · · · · · · · · ·						12= alarm 13= on/stand-by
	75	F10	10	compressor off condenser fan mode	if F0 = 2 or 5 0 = thermoregulated (with F11)		97	u6c	11	relay K6 configuration	0 = first compressor 1 = second compressor
			-		1 = thermoregulated (with F11) F11) if compressor off,						2 = evaporator fan 3 = condenser fan
					on if compressor on 2 = thermoregulated (with						4 = defrost 5 = cabinet light
					F11) if compressor off, on if compressor on, off						6 = demisting 7 = door heaters
					during defrost, pre- dripping and dripping						<ul><li>8 = heater for neutral :</li><li>9 = dripping heater</li></ul>
	76	F11	15.0	threshold for condenser fan on	0 99 °C/°F differential = 2 °C/4 °F						10= button-operated lo 11= button-operated lo
	77	F12	30	condenser fan off delay after compressor off	1						12= alarm 13= on/stand-by
	78	F17	60	evaporator fan off time with low humidity			98	u2	0	enable cabinet light and button- operated load in stand-by	
	79	F18	10	evaporator fan on time with low	0 240 s		99	u4	1	enable alarm output off silencing the buzzer	
	N. 80	PAR.	DEF.	humidity DIGITAL INPUTS door switch input function	MIN MAX.		100	u5	-1.0	threshold for door heaters on	-99 99 °C/°F differential = 2 °C/4 °F
			5		0 = disabled 1 = compressor + evaporator fan off		101 102	u6 u7	5 -5.0	demisting on duration neutral zone threshold for	1 120 min
					2 = evaporator fan off					heating (relative to setpoint)	differential = 2 °C/4 °F setpoint + u7
					3 = cabinet light on 4 = compressor + evaporator fan off,		103 N.	u9 PAR.	1 DEF.	enable alarm buzzer REAL TIME CLOCK	0 = no 1 = yes MIN MAX.
					evaporator fan off, cabinet light on 5 = evaporator fan off +	B	104	Hr0	0	enable clock	0 = no 1 = yes MIN MAX.
	81	i1	0	door switch input activation	cabinet light on 0 = with contact closed	<b>*</b>	N. 105	1	DEF. 0	ENERGY SAVING (if r5 = 0) energy saving maximum duration	0 999 min
	82	i2	30	open door alarm delay	1 = with contact open -1 120 min	<b>O</b>	N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if r5 = 0)	
					-1 = disabled	-	106 107	H02	0	energy saving time energy saving maximum duration	
	83	i3 i5	15	regulation inhibition maximum time with door open	-1 120 min -1 = until the closing		N. 108		DEF.	REAL TIME DEFROST (if d8 = 4) 1st daily defrost time	MIN MAX. h- = disabled
<b>S</b>	84	i5	8	multi-purpose input function	0 = disabled 1 = energy saving 2 = iA plarm	٥O	109 110	Hd3	h- h-	2nd daily defrost time 3rd daily defrost time	h- = disabled h- = disabled
					2 = iA alarm 3 = iSd alarm 4 = button-operated load 1 on		111 112		h- h-	4th daily defrost time 5th daily defrost time	h-= disabled h-= disabled
					4 = button-operated load 1 on 5 = button-operated load 2 on 6 = dovice op/off		113 N.	Hd6 PAR.	h- DEF.	6th daily defrost time SAFETIES	h- = disabled MIN MAX.
					6 = device on/off 7 = LP alarm 8 = C1t alarm	<b>~</b>	114 115	POF	1	enable ON/STAND-BY key enable keypad lock	0 = no 1 = yes 0 = no 1 = yes
	0-	:0	-		8 = C1t alarm 9 = C2t alarm	$\bigcirc$	116 117	PAS	-19 426	password level 1 password	-99 999 -99 999
	85	i6	0	multi-purpose input activation	0 = with contact closed 1 = with contact open		1117 118 N.		824 DEF.	level 2 password DATA-LOGGING EVLINK	-99 999 MIN MAX.
	86	i7	0	multi-purpose input alarm delay	0 120 min if i5 = 3, 8 or 9, compressor		119 120	rE0	60 4	data-logger sampling interval recorded temperature	0 240 min 0 = none 1 = cab
	87	i8	0	number of multi-purpose input		60	<sup>120</sup>	'=1	•		0 = none $1 = cab2 = evaporator3 = auxiliary$
	07			activations for high pressure alarm	if i5 = 3						3 = auxiliary 4 = cabinet and evapor 5 = all
	88	i9	240	reset counter time for high pressure alarm	1 999 min				1		<u></u>

temperature -		89	i10	0	door closed consecutive time for energy saving	after regulation temperature
C/20 °F		90	i13	180	number of door openings for	< SP 0 = disabled 0 240
evaporation d22		91	i13	32	defrost door open consecutive time for	0 = disabled 0 240 min
1 = yes		N.	PAR.	DEF.	defrost DIGITAL OUTPUTS	0 = disabled MIN MAX.
		92	u1c	0	relay K1 configuration	0 = first compressor 1 = second compressor
al						2 = evaporator fan 3 = condenser fan
temperature						4 = defrost 5 = cabinet light 6 = demisting
r temperature						<ul> <li>6 = demisting</li> <li>7 = door heaters</li> <li>8 = heater for neutral zone</li> </ul>
setpoint						9 = dripping heater 10= button-operated load 1
						11= button-operated load 2 12= alarm
		93	u2c	4	relay K2 configuration	13= on/stand-by 0 = first compressor
setpoint						1 = second compressor 2 = evaporator fan
						3 = condenser fan 4 = defrost
						5 = cabinet light 6 = demisting
						<ul> <li>7 = door heaters</li> <li>8 = heater for neutral zone</li> <li>9 = dripping heater</li> </ul>
						10= button-operated load 1 11= button-operated load 2
						12= alarm 13= on/stand-by
		94	u3c	5	relay K3 configuration	0 = first compressor 1 = second compressor
						2 = evaporator fan 3 = condenser fan
) D + PF label +						4 = defrost 5 = cabinet light
) + PF label + uration > A10)						6 = demisting 7 = door heaters
1 = on						8 = heater for neutral zone 9 = dripping heater
ressor on ulated (with						10= button-operated load 1 11= button-operated load 2 12= alarm
temperature		95	u4c	2	relay K4 configuration	13= on/stand-by
ulated (with temperature		33	uu	2	relay K4 configuration	0 = first compressor 1 = second compressor 2 = evaporator fan
mpressor on to F6	مد					3 = condenser fan 4 = defrost
lated (with F1) ulated (with	×					5 = cabinet light 6 = demisting
pressor on						<ul><li>7 = door heaters</li><li>8 = heater for neutral zone</li></ul>
1 = on						9 = dripping heater 10= button-operated load 1
to F0						11= button-operated load 2 12= alarm
		96	u5c	3	relay K5 configuration	13= on/stand-by 0 = first compressor
						1 = second compressor 2 = evaporator fan
lity (with F17 if compressor						3 = condenser fan 4 = defrost 5 = cabinet light
ompressor on) ity (on)						6 = demisting 7 = door heaters
						<ul> <li>8 = heater for neutral zone</li> <li>9 = dripping heater</li> </ul>
						10= button-operated load 1 11= button-operated load 2
						12= alarm 13= on/stand-by
lated (with F11)		97	u6c	11	relay K6 configuration	0 = first compressor 1 = second compressor
ulated (with ompressor off,						2 = evaporator fan 3 = condenser fan
ressor on ulated (with						4 = defrost 5 = cabinet light
ompressor off, pressor on, off						6 = demisting 7 = door heaters 8 = heater for neutral zone
lefrost, pre- nd dripping						<ul> <li>8 = heater for neutral zone</li> <li>9 = dripping heater</li> <li>10= button-operated load 1</li> </ul>
°C/4 °F						11= button-operated load 1 11= button-operated load 2 12= alarm
		98	u2	0	enable cabinet light and button-	13 =  on/stand-by 0 = no 1 = yes
		99	u4	1	operated load in stand-by enable alarm output off silencing	manual 0 = no 1 = yes
		100	u5	-1.0	the buzzer threshold for door heaters on	-99 99 °C/°F
r +		101	u6	5	demisting on duration	differential = 2 °C/4 °F 1 120 min
r fan off r fan off		102	u7	-5.0	neutral zone threshold for heating (relative to setpoint)	-99 99 °C/°F differential = 2 °C/4 °F
hton pr +		103	u9	1	enable alarm buzzer	setpoint + u7 0 = no 1 = yes
fan off, ht on	G	N. 104	PAR. Hr0	DEF.	REAL TIME CLOCK enable clock	MIN MAX. 0 = no 1 = yes
r fan off + ht on	•	N. 105	PAR. HE2	DEF.	ENERGY SAVING (if r5 = 0) energy saving maximum duration	MIN MAX. 0 999 min
ct closed ct open	_O	N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if r5 = 0)	MIN MAX.
	<b>*</b>	106 107	H01 H02	0	energy saving time energy saving maximum duration	0 23 h 0 24 h
osing		N. 108	PAR. Hd1	DEF.	REAL TIME DEFROST (if d8 = 4) 1st daily defrost time	MIN MAX. h-= disabled
ving	۰C	109 110	Hd2 Hd3	h- h-	2nd daily defrost time 3rd daily defrost time	h- = disabled h- = disabled
ated load 1 on		111 112	Hd4 Hd5	h- h-	4th daily defrost time 5th daily defrost time	h-= disabled h-= disabled
ated load 2 on off		113 N.	Hd6 PAR.	h- DEF.	6th daily defrost time SAFETIES	h- = disabled MIN MAX.
	$\overline{\mathbf{v}}$	114 115	POF Loc	1	enable ON/STAND-BY key enable keypad lock	0 = no 1 = yes 0 = no 1 = yes
ct closed		116 117	PAS PA1	-19 426	password level 1 password	-99 999 -99 999
ct open		118 N.	PA2 PAR.	824 DEF.	level 2 password DATA-LOGGING EVLINK data lagger compliant interval	-99 999 MIN MAX.
9, compressor Ilarm reset		119 120	rE0 rE1	60 4	data-logger sampling interval recorded temperature	0 240 min 0 = none 1 = cabinet 2 = overporator
	ഞ					<ul> <li>2 = evaporator</li> <li>3 = auxiliary</li> <li>4 = cabinet and evaporator</li> </ul>
						4 = cabinet and evaporator 5 = all

					3e + 3 = 1, maximum duration
	37	d4	0	enable defrost at power-on	0 = no 1 = yes
	38	d5	0	defrost dealy after power-on	0 99 min
	39	d6	1	value displayed during defrost	0 = regulation temperature 1 = display locked
					2 = dEF label
	40	d7	2	dripping time	0 15 min
	41	d8	0	defrost interval counting mode	0 = device on hours
					1 = compressor on hours
					2 = hours evaporator
۵.					temperature < d9
- <b>-</b>					3 = adaptive
					4 = real time
	42	d9	0.0	evaporation threshold for	-99 99 °C/°F
				automatic defrost interval	
				counting	
	43	d11	0	enable defrost timeout alarm	0 = no 1 = yes
	75	uII	U		
	44	d15	0	compressor on consecutive time	-20 99 min
			-		,
			-	compressor on consecutive time	-20 99 min
			-	compressor on consecutive time	-20 99 min if negative values, duration
	44	d15	0	compressor on consecutive time for hot gas defrost	-20 99 min if negative values, duration dripping heater on
	44	d15	0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas	-20 99 min if negative values, duration dripping heater on
	44	d15 d16	0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost	-20 99 min if negative values, duration dripping heater on 0 99 min
	44	d15 d16	0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min
	44	d15 d16	0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora-
	44	d15 d16	0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora- tor temperature < d22
	44 45 46	d15 d16 d18	0 40	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost adaptive defrost interval	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual
	44 45 46	d15 d16 d18	0 40	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost adaptive defrost interval threshold for adaptive defrost	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F
	44 45 46	d15 d16 d18	0 40	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation temperature - d19
	44 45 46 47	d15 d16 d18 d19	0 0 40 3.0	compressor on consecutive time for hot gas defrost pre-dripping time for hot gas defrost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature)	-20 99 min if negative values, duration dripping heater on 0 99 min 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation temperature - d19

N.	PAR.	DEF.	MODBUS		J   Code	104J206	Z2E103   Page 3 of 3   PT 14/18 MIN MAX.
N. 121	LA	247	MODBUS				1 247
122	Lb	2 2		baud rate	2		0 = 2,400 baud
ld							1 = 4,800 baud
							2 = 9,600 baud
123	LP	2	parity				3 = 19,200 baud 0 = none 1 = odd
125	LP	2	parity				2 = even
Ν.	PAR.	DEF.	BLUETOC	TH			MIN MAX.
124	bLE	1			figuratio	on for	
*			connectiv	vity			1 = forced for EVconnect or EPoCA
							2-99 = EPoCA local network
							address
B ALAR	MS						
ALAN	110						
OD. DES	CRIPTIC	DN		RESET		TO COR	RECT
	net prot			automat		- check	
	orator p			automat			k probe integrity
	iary pro alarm	be alar	m	automat manual	IC		k electrical connection e, time and day of the week
		ature ala	arm	automat	ic		.0, A1 and A2
AL         low temperature alarm           AH         high temperature alarm				automat			4 and A5
	door a			automat	ic	check i0	
	er failur			manual		- touch	
							k electrical connection
i			warning	automat	IC	check C	
Sd high	conden	sation a	aiarm	manual		<ul> <li>switc</li> <li>check</li> </ul>	h the device off and on < C7
A mult	i-purpo:	se innut	t alarm	automat	ic	check is	
	pressu			manual	-		h the device off and on
							k i5, i6, i8, i9
P low p	oressure	e alarm		automat	ic	check is	5 and i6
C1t com	nressor	therm	al switch	automat	ic	check is	5 and i6
alarr		arenth	a avvilUll	aaconidi		CHECK IS	
		pressor	r thermal	automat	ic	check is	5 and i6
	ch alarm					- touch a key	
IFd defro	ost time	out alai		manual			n a key k d2, d3 and d11
UL SD c	ard full	alarm		manual		free up space on the SD card or	
						replace	
d No S	D card	inserteo	d alarm	manual	I	insert ti	he SD card or replace it
urpose of t	he conti	rol devi					
Construction	of the				Built-ir		nic device
Container		control	device		Built-ir	n electro	
Container Category of	heat an	control	device		Built-ir Black, D 111.4	n electro self-exti	nic device
Construction Container Category of Measuremer Mounting mo	heat an nts	control	device esistance	vice	Built-ir Black, D 111.4 in) To be	n electro self-exti x 76.4 x	nic device nguishing
Container Category of Measuremer Mounting me	heat an nts ethods f	control d fire re for the c	device esistance		Built-ir Black, D 111.4 in) To be flaps	x 76.4 x	nic device nguishing 48.0 mm (4 3/8 x 3 x 1 15/16
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iontainer iategory of leasuremer lounting m regree of overing ionnection i crew term ma² (removidial lagital input igital	heat an heat an ts protect methods fr inal blc vable by permittee y: 10 m mperatur umidity tus of tl 65/CE 0/UE y v 0/UE catego ss and ss fr houts Sen Mea Res Sen Mea Res Sen Mea Res Sen Mea Res	control d fire r for the e	device esistance control dev provided r wires up t) for conne ft) ft) rol device wEEE control device wEEE control device re ent field ent field	by the to 2.5 ction cabl 2012/19 (±3 Hz),	Built-ir Black, D 111.4 in) To be flaps IP65 ( to a m in) Pico-B es Analog Digital From - Relativ 10 to 9 2 /EU LVD 20 /EU LVD 20 /EU LVD 20 None 4 KV III A 2 for probe KTY 81 From - 0.1 °C From - 0.1 °C	n electro           self-exti           x 76.4 x           fitted to           fitted to           front), o           etal pan           ade con           ade con           ade con           ade con           ade con           b           c           b           c           b           c	nic device nguishing 48.0 mm (4 3/8 x 3 x 1 15/16 b a panel, with elastic holding n condition the device is fitted el with thickness 0.8 mm (1/32 nector 5: 10 m (32.8 ft) °C (from 23 to 131 °F) °C (from -13 to 158 °F) dity without condensate from REACH (EC) Regulation 1907/2006 JE 6 -15%), max. 3.5 W insulated C or Pt 1000 probes (cabinet porator probe) 90 Ω @ 25 °C, 77 °F) 50 °C (from -40 to 221 °F) © °C (from -146 to 302 °F)

Reldy KI	SPS1, 30 A Tes. @ 230 VAC (16 A Dy Teq.)
Relay K2	SPDT, 8 A res. @ 250 VAC
Relay K3	SPST, 16 A res. @ 250 VAC
Relay K4	SPST, 8 A res. @ 250 VAC
Relay K5	SPST, 3 A res. @ 250 VAC
Relay K6	SPDT, 8 A res. @ 250 VAC
The device guarantees double insulation betw	een each digital output connector and the rest
of the components of the device	
Type 1 or Type 2 Actions	Туре 1
	Type 1 C
Type 1 or Type 2 Actions	
Type 1 or Type 2 Actions Additional features of Type 1 or Type 2	
Type 1 or Type 2 Actions Additional features of Type 1 or Type 2 actions	C
Type 1 or Type 2 Actions Additional features of Type 1 or Type 2 actions Displays	C Custom display, 3 digit, with function icons

digital input (multi-purpose input)

6 with electro-mechanical relay

Contact type Power supply

Protection

<u>24 A</u>

None

None

Input configurable for analogue input (auxiliary probe) or

The maximum total current allowed on the loads is

Other inputs

Digital outputs

N.B. X

The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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