

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.

EVCO S.p.A. | EV3254N9VWHXX1 | Instruction sheet ver. 1.0 | Code 1043254N9VWHXX1E103 | Page 1 of 2 | PT 05/25

- 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.

3 FIRST-TIME

- Install following the instructions given in the section MEASUREMENTS AND INSTALLA-TION.
- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run.

The test normally takes a few seconds, when it is finished the display will switch off.

3. Configure the device as shown in the section *Setting configuration parameters*.

Recommended configuration parameters for first-time use.

PAR.	DEF.	PARAMETER	MIN MAX.
SP1	0.0	setpoint	r1 r2
P0	1	probe type	0 = Pt1000 1 = NTC
P2	0	temperature unit of measurement	0 = °C 1 = °F
d1	0	defrost type	0 = electric 1 = hot gas
			2 = compressor stopped

,	if uc1 uc4 = 4, the demisting also witches on for the u6 duration if uc1 uc4 = 5 and the keypad is not locked, the button-operated load also switches on/off.									
4.6 Silence buzzer	4.6 Silence buzzer									
Touch a key.										
If uc1 uc4 = 6 and u4 = 1	, the alarm output switches off	•								
5 ADDITIONAL FUNG	TIONS									
	te overcooling, overheating	and manual energy saving								
Check that the keypad is no		,,,								
	Touch the DOWN key.									
FUNCTION	CONDITION	CONSEQUENCE								
overcooling	r5 = 0, $r8 = 1$ and defrost the setpoint becomes "setpo									
	not active	r6", for the r7 duration								
overheating	r5 and r8 = 1	the setpoint becomes "setpoint +								
		r6", for the r7 duration								
energy saving	r5 = 0 and r8 = 2 the setpoint becomes "set									
		r4", at maximum for HE2 duration								
5.2 View/delete compressor functioning hours and view comp. start-up number Check that the keypad is not locked.										
1. FNC	Touch the DOWN key for 4 s.									
2. ▼ FNL ▼	Touch the UP or DOWN key within 15 s to select a label.									
LAB. DESCRIPTIO	NC									
CH view compr	H view compressor functioning hours (hundreds)									

 rCH
 delete compressor functioning hours

 nS1
 compressor start-up number (thousands)

	n	month (01 12)							
	d	day (01 31)							
	h	time (00 23)							
	n	minute (00.	59)						
6.	≙∈	SET Touch the SET key: the display will show the label for the day the week.							
7.	√ FN		Touch the UP or DOWN key within 15 s to set the day of the week.						
	LAB.	DESCRIPTIO	N						
	Mon	Monday							
	tuE	Tuesday							
	UEd	Wednesday							
	thu	Thursday							
	Fri	Friday							
	Sat	Saturday							
	Sun	Sunday							
8.	≙ SET		Touch the SET key: the device will exit the procedure.						
9.			Touch the ON/STAND-BY key to exit the procedure beforehand.						

7 CONFIGURATION PARAMETERS

<u> </u>	Ν.	PAR.	DEF.	SETPOINT	MIN MAX.
₽	1	SP	0.0	setpoint	r1 r2
	2	SP2	0.0	setpoint 2	r1 r2
	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F
\cap	3	CA2	0.0	evaporator probe offset	-25 25 °C/°F
\sim	4	CA3	0.0	auxiliary probe offset	-25 25 °C/°F
	5 P0		1	probe type	0 = Pt 1000 1 = NTC
	6	P1	1	enable °C decimal point	0 = no 1 = yes

EVCO S.	p.A. 7	EV3254 P2	N9VWH)	XX1 Instruction sheet ver. 1.0 Code temperature unit of measure-		of 2 PT 0	5/25
	8	P3	1	ment evaporator probe function	0 = disabled		02
					1 = defrost + fan 2 = fan		
	9	P4	0	configurable input function	1 = condenser probe		63
					2 = condenser probe + door switch input		
	10	P5	0	value displayed	0 = regulation temperature 1 = setpoint		64
					2 = evaporator temperature3 = condenser temperature		65
	11	P6	0	enable evaporator fans speed modification	0 = no 1 = yes		66
	12	P8	5	display refresh minimum time of 1/10 °C	0 250 s : 10		67
	N. 13	PAR. r0	DEF. 2.0	REGULATION setpoint differential	MIN MAX. 0.1 25 °C/°F		68
	14 15	r1 r2	-40 50.0	minimum setpoint maximum setpoint	-99 °C/°F r2 r1 300 °C/°F		69
	16 17	r4 r5	0.0 0	setpoint offset in energy saving cooling or heating operation	0 99 °C/°F 0 = cooling		N.
	18	r6	0.0	setpoint offset in overcool-	1 = heating 0 99 °C/°F		70
	19	r7	30	ing/overheating overcooling/overheating duration	0 240 min		
	20	r8	0	DOWN key additional function	0 = disabled 1 = overcooling/overheating		
	21	r9	0.0	proportional band (relative to	2 = energy saving 0 99 °C/°F		
				setpoint) for PWM compressor at fixed speed	setpoint + r9	71	
	22	r10	0	PWM compressor speed below the r9 band	0 100 %		72
	23	r11	85	PWM compressor speed in po- wer-on	20 200 Hz		73
	24	r12	10	PWM compressor at r11 from power-on	0 999 s	5	74
	25	r13	0.0	proportional band (relative to setpoint)	0 99 °C/°F setpoint + r13		75
*					0 = operation with on-off compressor, SP and r0		76
	26 27	r14 r15	10 3	integral action time tipo di compressore	0 99 min 0 = Custom		77
					1 = Embraco VEM 2 = Embraco VEG		78
					3 = Embraco VNEK e VNEU 4 = Secop VNL 50 150 Hz		79
					5 = Secop 33 133 Hz		80
					6 = Tecumseh 85 150 Hz 7 = Embraco VES		81
					8 = Embraco FMX 9 = Embraco VESF		82
	28 29	r16 r17	0.0	compressor 2 threshold PWM compressor frequency in	-99 99 °C/°F 0 50 Hz		N. 83
	30	r18	50	power off PWM compressor minimum fre-	20 100 Hz		
	31	r19	150	quency PWM compressor maximum fre-	20 200 Hz		
	32	r20	30	quency RPM per Hertz	0 50		
	33 34	r21 r22	70 40	evaporator fan speed evaporator fan minimum speed	0 100 % 0 100 %		
	35 N.	r23 PAR.	80 DEF.	evaporator fan maximum speed COMPRESSOR	0 100 % MIN MAX.		84
	36	C0	0	compressor on delay after pow- er-on	0 240 min	S 1	85
	37 38	C2 C3	3	compressor off minimum time compressor on minimum time	0 240 min 0 240 s		86
	39	C4	10	compressor off time during cabi- net probe alarm	0 240 min		87
	40	C5	10	compressor on time during cabi- net probe alarm	0 240 min		
	41	C9	5	consecutive time cabinet tem- perature in proportional band for compressor at maximum speed	0 99 h 0 = disabled until cabinet temperature <		88
	42	C10	1	compressor hours for service	setpoint 0 999 h x 100		89
	-12 N.	PAR.	DEF.	DEFROST (if $r5 = 0$)	0 = disabled MIN MAX.		N. 90
	43	d0	8	automatic defrost interval	099 h 0 = only manual		
	44	d1	0	defrost type	if d8 = 3, maximum interval 0 = electric		
					1 = hot gas 2 = compressor stopped		
	45 46	d2 d3	2.0 30	threshold for defrost end defrost duration	-99 99 °C/°F 0 99 min		
	47	d4	0	enable defrost at power-on	se P3 = 1, maximum duration 0 = no 1 = yes		
	48 49	d5 d6	0	defrost dealy after power-on value displayed during defrost	0 99 min 0 = cabinet temperature		91
					1 = display locked 2 = dEF label		91 92 93
	50 51	d7 d8	2 3	dripping time defrost interval counting mode	0 15 min 0 = device on hours		94
					1 = compressor on hours 2 = hours evaporator tem-		
					perature < d9 3 = adaptive		
٠.	52	d9	0.0	evaporation threshold for auto- matic defrost interval counting	-99 99 °C/°F	30	
•	53 54	d11 d15	0	enable defrost timeout alarm compressor on consecutive time	0 = no 1 = yes 0 99 min	\mathbf{X}	
	55	d16	0	for hot gas defrost pre-dripping time for hot gas de-	0 99 min		
	56	d18	40	frost adaptive defrost interval	0 999 min		
					if compressor on + evapora- tor temperature < d22		
	57	d19	3.0	threshold for adaptive defrost	,		
		- 61		(relative to optimal evaporation temperature)	optimal evaporation tempera- ture - d19		95
	58	d20	180	compressor on consecutive time for defrost	0 999 min 0 = disabled		96
	59	d21	200	compressor on consecutive time for defrost after power-on and	0 500 min if (cabinet temperature - set-		97
	60	d22	-2.0	overcooling	point) > 10°C/20 °F 0 = disabled -99 99 °C/°F		
	00	u22	-2.0	evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation	optimal evaporation tempera- ture + d22		98 99
	Ν.	PAR.	DEF.	temperature)	MIN MAX.		99
	61	AA	0 0	select value for high/low temper- ature alarms	0 = cabinet temperature 1 = condenser temperature		100
- 7					(always absolute alarm)	<u></u>	N. 101
							1-21

2 PT 0					
	62	A1	-10.0	threshold for low temperature	-99 99 °C/°F 0 = disabled
					if A11 < 0, absolute (A1) if A11 > 0, relative to set-
					point (setpoint – A1)
	63	A4	10.0	threshold for high temperature	-99 99 °C/°F 0 = disabled
					if A11 < 0, absolute (A4)
					if A11 > 0, relative to set- point (setpoint + A4)
	64	A6	12	high temperature alarm delay af- ter power-on	0 99 min x 10
	65	A7	15	high/low temperature alarms de- lay	0 240 min
	66	A8	15	high temperature alarm delay af-	0 240 min
	67	A9	15	ter defrost high temperature alarm delay af-	0 240 min
	68	A10	10	ter door closing power failure duration for alarm	0 240 min
				recording	
	69	A11	-2.0	high/low temperature alarms re- set differential	-25 25 °C/°F
	N. 70	PAR. F0	DEF.	FANS evaporator fan mode during	MIN MAX. 0 = off 1 = on
		10		normal operation	2 = according to F15 and
					F16 if compressor off, on if compressor on
					3 = thermoregulated (with F1)
					4 = thermoregulated (with
	71	F1	-1.0	threshold for evaporator fan op-	F1) if compressor on -99 99 °C/°F
	72	F2	0	eration evaporator fan mode during de-	differential = 1 °C/2 °F 0 = off 1 = on
				frost and dripping	2 = according to F0
	73	F3	2	evaporator fan off maximum time	0 15 min
6	74	F4	30	evaporator fan off time during energy saving	0 240 s x 10
50	75	F5	30	evaporator fan on time during	0 240 s x 10
	76	F7	5.0	energy saving threshold for evaporator fan on	-99 99 °C/°F
			-	after dripping (relative to set-	setpoint + F7
	77	F9	0	point) evaporator fan off delay after	0 240 s
	78	F11	15.0	compressor off threshold for condenser fan on	if F0 = 2 0 99 °C/°F
					differential = 2 °C/4 °F
	79	F12	30	condenser fan off delay after compressor off	0 240 s
	80 81	F13 F15	10 60	condenser fans speed differential evaporator fan off time with	0.1 15 °C/°F 0 240 s
				compressor off	if F0 = 2
	82	F16	0	evaporator fan on time with compressor off	0 240 s if F0 = 2
	N. 83	PAR. i0	DEF.	DIGITAL INPUTS	MIN MAX.
	03		_	door switch input function	0 = disabled 1 = compressor + evapora-
					tor fan off 2 = evaporator fan off
					3 = cabinet light on 4 = compressor + evapora-
					tor fan off, cabinet light
					on 5 = evaporator fan off +
	84	;1	0	door switch input activation	cabinet light on
		i1	0	door switch input activation	0 = with contact closed 1 = with contact open
	85	i2	30	open door alarm delay	-1 120 min -1 = disabled
	86	i3	15	regulation inhibition maximum time with door open	-1 120 min
	87	i10	0	door closed consecutive time for	-1 = until the closing 0 999 min
				energy saving	after cabinet temperature < SP
		1			0 = disabled
	88	i13	180	number of door openings for de-	0 240
				number of door openings for de- frost	0 = disabled
	88 89	i13 i14	180 32		
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX.
	89	i14	32	frost door open consecutive time for defrost	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2
	89 N.	i14 PAR.	32 DEF.	frost door open consecutive time for defrost DIGITAL OUTPUTS	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by
	89 N. 90 91 92	i14 PAR. u1c uc2 uc2	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1
	89 N. 90	i14 PAR. u1c uc2	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration relay K4 configuration	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 0 = compressor
	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1
	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light
	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1
7.	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 2 = evaporator fan 3 = cabinet light 4 = demisting
*	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone
~	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 ike uc1 ike uc1 ise uc1
~	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 like uc1 ike uc1 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan
~	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11 = compressor 2 12 = dirpoing heater 3 = codenser fan 10= on/stand-by 11 = compressor 2 12 = dripping heater 13 = variable speed compres-
*	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 like uc1 ike uc1 ist euf 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater 13= variable speed compres- sor 14= 50 150 Hz variable
*	89 N. 90 91 92 93	i14 PAR. u1c uc2 uc3 uc4	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration relay K4 configuration sSR if uc5 = 0 12	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10 = on/stand-by 11 = compressor 2 12 = dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 like uc1 ike uc1 ike uc1 ike uc1 ike uc1 is = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10 = on/stand-by 11 = compressor 2 12 = dripping heater 13 = variable speed compres- sor
**	89 90 91 92 93 94	i14 PAR. u1c uc2 uc3 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater 13= variable speed compres- sor 14= 50 150 Hz variable speed evaporator fans 15= 50 150 Hz variable
*	89 90 91 92 93 94 94	i14 PAR. u1c uc2 uc3 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K3 configuration relay K4 configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10 = on/stand-by 11 = compressor 2 12 = dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10 = on/stand-by 11 = compressor 2 12 = dripping heater 13 = variable speed compres- sor 14 = 50 150 Hz variable speed evaporator fans 0 = no 1 = yes manual
*	89 90 91 92 93 94	i14 PAR. u1c uc2 uc3 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K4 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button-	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1 like uc1 like uc1 o = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11 = compressor 2 12 = dripping heater 13 = variable speed compressor 14 = 50 150 Hz variable speed condenser fans 15 = 50 150 Hz variable speed evaporator fans 15 = on
**	89 90 91 92 93 94 94	i14 PAR. u1c uc2 uc3 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration relay K4 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1 like uc1
*	89 N. 90 91 92 93 94 94 95 96	i14 PAR. u1c uc2 uc3 uc4 uc5 uc5 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10= on/stand-by 11= compressor 2 12= dripping heater like uc1
*	89 N. 90 91 92 93 94 93 94 95 96 97	i14 PAR. u1c uc2 uc3 uc4 uc5 uc5 uc4 uc5 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K3 configuration relay K4 configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on (u5 - 2 °C/4 °F)	0 = disabled0 240 min0 = disabledMIN MAX.0 = compressor1 = defrost2 = evaporator fan3 = cabinet light4 = demisting5 = button-operated load6 = alarm7 = door heaters8 = heater for neutral zone9 = condenser fan10 = on/stand-by11 = compressor 212 = dripping heaterlike uc1like uc1like uc1like uc1log = condenser fan0 = compressor1 = defrost2 = evaporator fan3 = cabinet light4 = demisting5 = button-operated load6 = alarm7 = door heaters8 = heater for neutral zone9 = condenser fan10 = on/stand-by11 = compressor 212 = dripping heater13 = variable speed compressor14 = 50 150 Hz variablespeed evaporator fans15 = 50 150 Hz variablespeed evaporator fans15 = 50 150 Hz variablespeed evaporator fans0 = no1 = yesmanual0 = no1 = yes-99 99 °C/°Fif u11 = 1, threshold for doorheaters offdifferential = 2 °C/4 °F
**	89 N. 90 91 92 93 94 94 95 96	i14 PAR. u1c uc2 uc3 uc4 uc5 uc5 uc4 uc5	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on (u5 - 2 °C/4 °F) demisting on duration neutral zone threshold for heat-	0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = compressor 1 = defrost 2 = evaporator fan 3 = cabinet light 4 = demisting 5 = button-operated load 6 = alarm 7 = door heaters 8 = heater for neutral zone 9 = condenser fan 10 = on/stand-by 11 = compressor 2 12 = dripping heater like uc1 like uc1 like uc1 like uc1 like uc1 like uc1 ike uc1 ik
*	89 N. 90 91 92 93 94 94 95 96 97 98	i14 PAR. u1c uc2 uc3 uc4 uc5 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc5 uc4 uc5 uc5 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K3 configuration relay K3 configuration relay K4 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on (u5 - 2 °C/4 °F)	$\begin{array}{l} 0 = disabled \\ \hline 0 240 min \\ 0 = disabled \\ \hline MIN MAX. \\ \hline 0 = compressor \\ 1 = defrost \\ 2 = evaporator fan \\ 3 = cabinet light \\ 4 = demisting \\ 5 = button-operated load \\ 6 = alarm \\ 7 = door heaters \\ 8 = heater for neutral zone \\ 9 = condenser fan \\ \hline 10 = on/stand-by \\ 11 = compressor 2 \\ 12 = dripping heater \\ \hline like uc1 \\ \hline defrost \\ 2 = evaporator fan \\ 3 = cabinet light \\ 4 = demisting \\ 5 = button-operated load \\ 6 = alarm \\ 7 = door heaters \\ 8 = heater for neutral zone \\ 9 = condenser fan \\ 10 = ompressor 2 \\ 12 = defrost \\ 2 = evaporator fan \\ 3 = cabinet light \\ 4 = demisting \\ 5 = button-operated load \\ 6 = alarm \\ 7 = door heaters \\ 8 = heater for neutral zone \\ 9 = condenser fan \\ 10 = on/stand-by \\ 11 = compressor 2 \\ 12 = dripping heater \\ 13 = variable speed compressor \\ 14 = 50 150 Hz variable speed condenser fans \\ 15 = 50 150 Hz variable speed evaporator fans \\ 15 = 50 150 Hz variable speed condenser fans \\ 15 = 50 150 Hz variable speed condenser fans \\ 15 = 50 150 Hz variable speed condenser fans \\ 0 = no 1 = yes \\ \hline -99 99 °C/°F \\ \hline if u11 = 1, threshold for door heaters \\ 0 = n0 1 = yes \\ \hline -99 120 min \\ \hline \end{array}$
×	89 N. 90 91 92 93 94 94 95 96 97 98	i14 PAR. u1c uc2 uc3 uc4 uc5 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc4 uc5 uc5 uc4 uc5 uc5 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6 uc6	32 DEF. 0	frost door open consecutive time for defrost DIGITAL OUTPUTS relay K1 configuration relay K2 configuration relay K2 configuration relay K3 configuration output SSR/PWM configuration SSR if uc5 = 0 12 PWM if uc5 = 13 15 enable cabinet light and button- operated load in stand-by enable cabinet light and button- operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on (u5 - 2 °C/4 °F) demisting on duration neutral zone threshold for heat-	0 = disabled0 240 min0 = disabledMIN MAX.0 = compressor1 = defrost2 = evaporator fan3 = cabinet light4 = demisting5 = button-operated load6 = alarm7 = door heaters8 = heater for neutral zone9 = condenser fan10= on/stand-by11= compressor 212= dripping heaterlike uc1like uc2light uc1lop

Image: Project 1 enable OWISTAND-BY Key 0 no. 1 y was 101 PAL 426 Hevel 1 password -99999 -99999 Image: Project 1 Project 1 password -99999 -99999 Image: Project 1 Project 100 Project 100 Project 100 Project 100 Image: Project 100 Project 100 Project 100 Project 100 Project 100 Image: Project 100 Project 100 Project 100 Project 100 Project 100 Image: Project 100 Project 100 Project 100 Project 100 Project 100 Project 100 Image: Project 100 Image: Project 100		Ν.	PAR.	DEF.	SAFETIE	S			MIN MAX.	
Interf Par. 99. 99. 99. Interf Par. Par. 99. 99. 99. Interf Par. DEF. Reat. THE CLOCK MN MAX. Interf Par. DEF. Def. Def. Def. Def. N. PAR. DEF. Def. Def. Def. Def. Interf Interf Data-LOGGIME Structure Def. Def. Def. Interf Interf Interf Interf Def. Def. Def. Interf Interf Interf Def. MODBUS MIN MAX. Into Into <thinto< th=""> <thinto< th=""> <thinto< t<="" td=""><td>~</td><td>102</td><td>POF</td><td>1</td><td>enable (</td><td>DN/STANE</td><td>D-BY key</td><td>r</td><td>0 = no 1 = yes</td></thinto<></thinto<></thinto<>	~	102	POF	1	enable (DN/STANE	D-BY key	r	0 = no 1 = yes	
IDS PAL PAL PAL PAL PAL IOS N.P. PAL DEF. PAL PAL PAL PAL IOS PAL DEF. PAL PAL PAL PAL IOS PAL DEF. DAT DES DAT PAL IOS PAL DEF. DAT DES DAT DES DAT IOS PAL DEF. DAT DES DAT DAT DAT IOS PAL DEF. DAT DES DAT DAT IOS PAL DEF. MODBUS MMA. D.T DAT DAT IOS IOS PAL DEF. MODBUS MMA. DAT DAT IOS IOS DEF. MODBUS MMA. DAT DAT DAT IOS DAT PAL DEF. MODBUS MMA. DAT DAT IOS ALADS PAL	\odot	103	PAS	-19						
IDS PAL PAL PAL PAL PAL IV IV IV PAL PAL PAL PAL IV IV PAL PAL PAL PAL PAL IV IV PAL PAL PAL PAL PAL IV PAL PAL PAL PAL PAL PAL IV IV PAL PAL PAL PAL PAL IV PAL PAL PAL PAL PAL PAL PAL IV PAL PEL MODBUS MMM. MAL PAL PAL <td>~</td> <td>104</td> <td>PA1</td> <td>426</td> <td>level 1 p</td> <td>assword</td> <td></td> <td></td> <td>-99 999</td>	~	104	PA1	426	level 1 p	assword			-99 999	
Image: Second		105	PA2	824	level 2 p	assword			-99 999	
Image: Second	$\overline{\frown}$	Ν.	PAR.	DEF.	REAL TI	ME CLOCH	<		MIN MAX.	
N. PAR. DETA-LOGGING FVLINK MN MAX. 107 bLE 1 series of configuration for configuratis for configuratis for configuratis for configurat	G	106	Hr0	0	enable c	lock			0 = no 1 = yes	
ID7 DLE 1 serial port configuration for con nectivity 0 = forced forced nectivity = address IO8 F01 15 data-sogger sampling increase 0 0 none 1 - address 0 - 240 min - address - addres - addres <td></td> <td>Ν.</td> <td>PAR.</td> <td>DEF.</td> <td>DATA-LO</td> <td>DGGING E</td> <td>VLINK</td> <td></td> <td></td>		Ν.	PAR.	DEF.	DATA-LO	DGGING E	VLINK			
Image: Proceedings Image:				1				for con-		
$ \begin{array}{ c c c c } \hline PCA \\ 2 0 = PCA \\ 0 = 0 \\ 0 $										
Image:										
Image: Problem in the second of the control device in the second of the contro										
IDS FIG IS data-logger sampling interval 0 240 min 109 rE1 I recorded temperature 0 240 min 110 recorded temperature 0 240 min 1 110 LA 247 MODBUS MIN MMX. 111 LD 247 MODBUS address 1 2 240 main 111 LD 2 MODBUS band rate 0 2400 band 2 9600 band 2 9.00 band 3 9.00 band 3 9.00 band 3 9.00 band 3 9.00 band 71 cabinet probe alarm automatic - check probe integrity - check adat - check probe integrity 72 exoparator probe alarm automatic - check adat - check adat - check adat 111 LD 2 MODBUS Function controller - check adat 112 LP automatic check adat - check adat - check adat 12 L Iow temperature alarm automatic - check adat - check adat -										
109 rE1 1 recorded temperature 0 = none 1 = cabinet 101 LA 247 MODBUS MILNMAX. 111 LD 247 MODBUS address 1 247 111 LD 247 MODBUS address 1 247 111 LD 247 MODBUS address 1 247 111 LD 2 MODBUS address 1 247 111 LD LD Address 2.	LOG	108	rE0	15	data-log	ider samn	lina inte	rval		
Image: Section of the control device in the control devic										
A a = condensatore 4 = colphet and evaporator 5 = all 110 LA 247 110 LA 247 110 LA 247 111 LD 247 MODBUS baud rate 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud at 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud at 2 = 9,600 baud 3 = 19,200 baud 3 = 19,200 baud at 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud 3 = 10,200				_						
Image: Second state in the second state in										
N PA DEF: MODBUS MILE. MAX. 110 LA 247 MODBUS address 1 247 111 LD 2 Address 1 247 111 LD 2 Address 1 247 111 LD 2 1 240 1 240										
N. PAR. DEF. MODBUS MIN MAX. 111 LD 247 MODBUS address 1 247 111 LD 2 MODBUS badd rate 0 2,400 baud 1 LD 2 MODBUS badd rate 0 2,400 baud 2,e,900 baud 2 a,900 baud 3 = 19,200 baud 2,e,900 baud 2,e,900 baud 2,e,900 baud P2 expontor probe alam automatic - check PDe integrity - P2 expontor probe alam automatic - check electrical connection P2 expontor probe alam automatic - check electrical connection 111 di open doer alam automatic - check electrical connection 111 open doer alam automatic - check electrical connection 111 open doer alam automatic - check electrical connection 111 open doer alam automatic - check electrical connection 111 open doer alam automatic - check electrical connection 111										
Inf L. 247 MODBUS badress 1 247 Inf L.D 247 MODBUS badress 0 2400 badr. 3 = 9,000 badr. 3 = 0,000 endersprote alarm. automatic - check PO Pr1 coincers probe alarm. automatic - check probe integrity. Pr3 condenser probe alarm. automatic - check probe integrity. Pr3 condenser probe alarm. automatic - check electrical connection. Check alart and failer alarm. automatic H hyst merature alarn. automatic - check electrical connection. Check alart and failer alarm. automatic - touch a kay First coincer of the control device Function controller Balter in electronic device. Built-in electronic device. Construction of the control device. Built-in electronic device. Domeasurements. Function controller Built-in electronic device. Domeasurements. 75.0 x 33.0 x 50.0 mm (2 15/16 x 1 5/16 x 1		N	DAD	DEE	MODBUS	c				
Image: Construct of the control device in the control device is the control device in the control device in the control device is the control device in the control device in the control device is the control device in the control device is the co										
Image: stand sta										
2 = 9,600 baud 3 ALARMS COD. DESCRIPTION RESET REMEDIES P12 explored probe alarm automatic - check P0 P12 explored probe alarm automatic - check P0 P12 explored probe alarm automatic - check P0 P12 explored probe alarm automatic - check A and A1 AH high temperature alarm automatic check A and A1 AH high temperature alarm automatic check A and A1 AH high temperature alarm automatic check A2, d3 and d11 PF power failure alarm manual - touch a key - check destrial connection Construction of the control device Built-in electronic device Built-in electronic device Construction of the control device Construction of the control device Built-in electronic device S 3/16 in) with removable screw terminal blocks Construction provided by the coverting To be fitted to a panel, snap-in brackets privided S 0 x30.0 x 20.5 mm ² Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft)	Id	111	LU	2	MODBO.		le			
S ALARMS COD. DESCRIPTION RESET Rebels PT1 cabinet probe alarm automatic - check PD Pr21 exaporator probe alarm automatic - check PD Pr31 condenser probe alarm automatic - check PD Pr32 condenser probe alarm automatic - check An and A1 AH high temperature alarm automatic check AA and A4 Id open door alarm automatic check AA and A4 Id open door alarm automatic check AA and A4 Id open door alarm automatic check AA and A4 Id open door alarm automatic check Na and A4 Id open door alarm manual - check dectrical connection Id defrost timeout alarm manual - check d2, d3 and d11 S TECHNICAL SPECIFICATIONS PME PME Purpose of the control device Function controller Construction of the control device Contaitor Black, self-atting block 3 316 in) with removable screw terminal blocks Measurements 75	Iu									
S ALARMS COD. DESCRIPTION RESET REMEDIES Pr1 colinet probe alarm automatic - check P0 Pr2 exportor probe alarm automatic - check P0 rcc check Alarn manual - check An and A1 Id open door alarm automatic check A and A4 Id open door alarm automatic check A and A4 Id open door alarm automatic check A2, d3 and d11 PF power failure alarm manual - touch a key - check d2, d3 and d11 Construction of the control device Built-in electronic device Construction of the control device Built-in electronic device Construction of the control device Construction of the control device Built-in electronic device S 3/16 in) with removable screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets pr Progree of protection provided by the cover- IfteG (front] Connection method Removable screw terminal blocks For wires up to 2, S mm ² Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) <										
S ALARUS COD. DESCRIPTION RESET REMEDIES P12 cabinet probe alarm automatic - check Probe integrity P12 compare probe alarm automatic - check Probe integrity P13 condense probe alarm automatic - check An and A1 AL how temperature alarm automatic - check An and A1 AL how temperature alarm automatic - check AA and A1 AL how temperature alarm manual - touch a key - - - check AC, 33 and A11 PF power failure alarm manual - touch a key - check AA and A1 - - defrost timeout alarm manual - touch a key - check AA and A1 - - defrost timeout alarm manual - touch a key - check AA and A1 - Measurements - - 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 25/16 in) wit										
COD. DESCRIPTION RESET REMEDIES P11 cabinet probe alarm automatic - check P0 P12 condense probe alarm automatic - check P0 P13 condense probe alarm automatic - check An and A1 Atl hort temperature alarm automatic check An and A1 Atl high temperature alarm automatic check An and A1 Atl high temperature alarm automatic check An and A1 Atl high temperature alarm manual - tock ketzrical connection F power failure alarm manual - tock ketzrical connection Godd defrost timeout alarm manual - tock k2, d3 and d11 S TCCHNICAL SPECIFICATIONS Purpose of the control device Function controller Construction of the control device Bult-in electronic device Controller Construction of the control device D S 0 × 30. × 81.5 mm (2 15/16 × 1 5/16 × 1 25/16 × 1 5/16 × 1 25/16 × 1 5/16 × 1 25/16 × 1 3/16 in) with removable screw terminal blocks		1 1		1 1					parity even	
COD. DESCRIPTION RESET REMEDIES P11 cabinet probe alarm automatic - check P0 P12 condense probe alarm automatic - check P0 P13 condense probe alarm automatic - check An and A1 Atl hort temperature alarm automatic check An and A1 Atl high temperature alarm automatic check An and A1 Atl high temperature alarm automatic check An and A1 Atl high temperature alarm manual - tock ketzrical connection F power failure alarm manual - tock ketzrical connection Godd defrost timeout alarm manual - tock k2, d3 and d11 S TCCHNICAL SPECIFICATIONS Purpose of the control device Function controller Construction of the control device Bult-in electronic device Controller Construction of the control device D S 0 × 30. × 81.5 mm (2 15/16 × 1 5/16 × 1 25/16 × 1 5/16 × 1 25/16 × 1 5/16 × 1 25/16 × 1 3/16 in) with removable screw terminal blocks	0	AL-0-0	Me							
P1 cabinet probe alarm automatic - check P0 P2 evaporator probe alarm automatic - check P0 P3 condense probe alarm automatic - check P0 P3 condense probe alarm automatic - check And A1 Att low temperature alarm automatic check An and A1 Att high temperature alarm automatic check An and A1 Att high temperature alarm automatic check An and A1 Att high temperature alarm manual - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Adama touch a key - - </td <td>6</td> <td>AL/AR</td> <td>1415</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	6	AL/AR	1415							
P1 cabinet probe alarm automatic - check P0 P2 evaporator probe alarm automatic - check P0 P3 condense probe alarm automatic - check P0 P3 condense probe alarm automatic - check And A1 Att low temperature alarm automatic check An and A1 Att high temperature alarm automatic check An and A1 Att high temperature alarm automatic check An and A1 Att high temperature alarm manual - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Ada and A1 - touch a key - check Adama touch a key - - </td <td>CO5</td> <td>DEC</td> <td>CD 107-</td> <td></td> <td></td> <td>DECET</td> <td></td> <td>DEMES</td> <td>EC</td>	CO5	DEC	CD 107-			DECET		DEMES	EC	
P2 evaporator probe alarm automatic - check probe integrity P3 condenser probe alarm manual set date, time and day of the week AL low temperature alarm automatic check A and A1 AL low temperature alarm automatic check A and A1 AH high temperature alarm automatic check A and A1 PF power failure alarm manual - check electrical connection PF power failure alarm manual - check electrical connection deforst timeout alarm manual - touch a key - check d2, d3 and d11 9 TECHNICAL SPECIFICATIONS Built-in electronic device Built-in electronic device Construction of the control device Built-in electronic device Built-in electronic device So 3.0 x 81.5 mm (2 15/16 x 1 5/16 x 1		-				-	11.			
Pr3 condenser probe alarm automatic - check electrical connection AL low temperature alarm automatic check AA and A1 AH high temperature alarm automatic check AA and A4 AH high temperature alarm automatic check AA and A4 AH high temperature alarm automatic check AA and A4 AH high temperature alarm automatic check AA and A4 AH high temperature alarm automatic check AA and A4 AH high temperature alarm manual - touch a key - check alextrical connection Gonderstore Black, self-extinguishing Construction Construction Construction Constainer Black, self-extinguishing Category of heat and fire resistance D Measurements 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 1 5/16 x 3 3/16 in) with fired sore werminal blocks To be fitted to a panel, snap-in brackets privided Mounting methods for the control device To be fitted to a panel, snap-in brackets privided To be fitted to a panel, snap-in brackets privided Pewer supply: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Di		-				-		-		
rtc clock alarm manual set date, time and day of the week AL low temperature alarm automatic Check AA and A1 AH high temperature alarm automatic Check AA and A1 AH high temperature alarm automatic Check AA and A4 Id open door alarm automatic Check AA and A4 Id open door alarm manual - touch a key - check d2, d3 and d11 9 TECHNICAL SPECIFICATIONS Purpose of the control device Built-in electronic device Construction of the control device Built-in electronic device Contraction of the control device Built-in electronic device Contraction of the control device D S 2/16 in) with fixed screw terminal blocks Salfo in) with removable screw terminit blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets privides Connection method Fixed screw terminal blocks Removable screw terminal blocks Fixed screw terminal blocks Removable screw terminal blocks Micro-MaTch connector Digital uputs: 10 m (32.8 ft) Digital uputs: 10 m (32.8 ft) Digital uputs: 10 m (32.		-						-		
AL low temperature alarm automatic check AA and A1 AH high temperature alarm automatic check AA and A4 idi open door alarm automatic check AA and A4 idi open door alarm automatic check AB and A4 FF power failure alarm manual - touch a key - check electrical connection dFd defroit timeout alarm manual - touch a key Chack electrical connection Built-in electronic device Construction of the control device Construction of the control device Built-in electronic device Touch a key Constainer Black, self-extinguishing Category of heat and fire resistance D Measurements 75.0 x 33.0 x 95.0 nm (2 15/16 x 1 5/16 x 3 /16 in) with removable screw terminal blocks Micro-MaTch connector Measurements To be fitted to a panel, snap-in brackets prive device Decrements Source Removable screw terminal blocks Removable screw terminal blocks for wires up to 2,5 mm ² (2,5 mm ²) verguest Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital					arm					
AH high temperature alarm automatic check AA and A4 Id open door alarm automatic Check 10 e 11 PF power failure alarm manual - touch a key defort deforts timeout alarm manual - touch a key 9 TECHNICAL SPECIFICATIONS Purchox a key - check alcxinguishing Construction of the control device Built-in electronic device Container Container Baik, self-extinguishing Category of heat and fire resistance D Container Baik, self-extinguishing Category of heat and fire resistance D 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 1 5/16 x 3 3/16 in) with removable screw terminal blocks To be fitted to a panel, snap-in brackets privided Mounting methods for the control device To be fitted to a panel, snap-in brackets privided IP65 (front) Degree of protection provided by the cover- IP65 (front) IP66 (front) Ticked screw terminal blocks Removable screw terminal blocks Prom -25 to 70 °C (from 13 to 158 °F) Operating humidity Relative humidity without condensate from to 155 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity <	rtc	cloc	k alarm	ı		manua		set date	e, time and day of the week	
Id open door alarm automatic check i0 e 11 PF power failure alarm manual - touch a key or. check electrical connection - check electrical connection Idf d defrost timeout alarm manual - touch a key 9 TECHNICAL SPECIFICATIONS Purpose of the control device Buil: In electronic device Construction of the control device Buil: In electronic device Construction of the control device Black, self-extinguishing Category of heat and fire resistance D Measurements 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 1 5/16 x 3 3/16 in) with removable screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets privided Degree of protection provided by the cover- ing To be fitted to a panel, snap-in brackets privided Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 2 to 70 °C (from -13 to 158 °F) Storage temperature From 2 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 2 to 90% Power supply	AL	low	temper	ature ala	arm	automa	tic	check A	A and A1	
id open failure alarm automatic check i0 e 11 PF power failure alarm manual - touch a key dFd defrost timeout alarm manual - touch a key g TECHNICAL SPECIFICATIONS Purpose of the control device Buil: In electronic device Construction of the control device Buil: In electronic device Construction of the control device Buil: In electronic device Construction of the control device D Construction of the control device D Construction of the control device D Si X 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 1 5/16 x 3 3/16 in) with fixed screw terminal blocks 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x	AH	high	tempe	erature a	larm	automa	tic	check A	A and A4	
PF power failure alarm manual - touch a key - check electrical connection GFd defrost timeout alarm manual - touch a key - check d2, d3 and d11 9 TECHNICAL SPECIFICATIONS Function controller Construction of the control device Built-in electronic device Container Black, self-extinguishing Category of heat and fire resistance D Masurements To be fitted to a panel, snap-in brackets privided Sol X 33.0 x 55.0 mm (2 15/16 x 1 5/16 x 5.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 1	id	oper	door	alarm		automa	tic	check i) e i1	
dFd defrost timeout alarm manual - check electrical connection 9 TECHNICAL SPECIFICATIONS Purpose of the control device Built-in electronic device Construction of the control device Built-in electronic device Category of heat and fire resistance D Measurements 75.0 × 33.0 × 81.5 mm (2 15/16 × 1 5/16 × 3 3/16 in with removable screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets pr vided Connection method To be fitted to a panel, snap-in brackets pr vided Connection method From Vice Screw terminal blocks Fixed screw terminal blocks for wires up to 2,5 mm ² Normal Micro-MaTch connector for wires up to 2,5 mm ² Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating femperature From 0 to 55 °C (from 312 to 158 °F) Relive humidity Relative humidity without condensate from 1 to 90% Power supply I15 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Enthing methods for the control device 2 Conformity None Rold 201/65/CE WEEE 2012/19/EU REACH (EC) Regulated Hz), max. 3.2	PF	pow	er failu	re alarm		manua		- touch	n a key	
def of defrost timeout alarm manual - touch a key 9 TECHNICAL SPECIFICATIONS Purpose of the control device Built-in electronic device Constainer Black, self-extinguishing Category of heat and fire resistance D Measurements Data and a self-extinguishing 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x Mounting methods for the control device To be fitted to a panel, snap-in brackets pr Pogree of protection provided by the cover- IP65 (front) Instain purpose of protection provide to the control cables Power supply: 10 m (32.8 ft) Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 15 09% Power supply: I15		L								
9 TECHNICAL SPECIFICATIONS Purpose of the control device Function controller Construction of the control device Built-in electronic device Container Black, self-extinguishing Category of heat and fire resistance D Measurements 75.0 × 33.0 × 81.5 mm (2 15/16 × 1 5/16 § 3/16 in) with fixed screw terminal blocks 3.3/16 in) with fixed screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets privided Connection method To be fitted to a panel, snap-in brackets privided Fow supply: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 0 to 55 °C (from 32 to 131 °F) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Pollution status of the control device 2 Conformity Relative humidity without condensate from 1 to 9% Pollution status of the control device 115	dFd	defr	ost tim	eout ala	m	manua		î .		
9 TECHNICAL SPECIFICATIONS Purpose of the control device Function controller Construction of the control device Built-in electronic device Construction of the control device D Measurements 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 1 5/16 3 3/16 in) with removable screw terminal blocks Younting methods for the control device To be fitted to a panel, snap-in brackets provided by the cover- ling Degree of protection provided by the cover- ling To be fitted to a panel, snap-in brackets provided by the cover- ling blocks for wires up to 2,5 mm² by request Connection method Excess terminal blocks for wires up to 0, 2,5 mm² by request Micro-MaTch connector Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating humidity Relative humidity without condensate from to 90% Pollution status of the control device Conformity WEEE 2012/19/EU REACH (EC) Regulatid Power supply: 115	-	1							-	
Purpose of the control device Function controller Construction of the control device Built-in electronic device Category of heat and fire resistance D Measurements D 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 7.5 0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 1 5						•		•		
Measurements 75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 61.5 mm (2 15/16 x 1 5/16 x 2 5/16 in) with fixed screw terminal blocks Mouning methods for the control device To be fitted to a panel, snap-in brackets priviled Degree of protection provided by the covering To be fitted to a panel, snap-in brackets priviled Connection method Incrementation Fixed screw terminal blocks Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Operating freemperature From 0 to 55 °C (from 3 to 13 to 158 °F) Operating freemperature From -25 to 70 °C (from -13 to 158 °F) Operating freemperature From -25 to 70 °C (from -13 to 158 °F) Operating freemperature From -25 to 70 °C (from -13 to 158 °F) Pollution status of the control device 2 Conformity Relative humidity without condensate from 1 to 90% Power supply: I15 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Power supply: I15 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Read impulse-withstand voltage 2,5 KV Over-voltage category II Software class and struc	Contai	iner					Black,	Black, self-extinguishing		
75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 2 5/16 in) with fixed screw terminal blocks 75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 3 3/16 in) with removable screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets privaded Pagree of protection provided by the cover- ing The fitted to a panel, snap-in brackets privaded Fixed screw terminal blocks for wires up to 2,5 mm ² Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Micro-MaTch connector Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating humidity Relative humidity without condensate from 1 to 90% Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity Red WEEE 2012/19/EU REACH (EC) Regulatid 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Wone Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Rated impulse-withstand voltage 2,5 fv Over-voltage category II Massor type 83435 (1 KG @ 0 °C, 32 °F) <				nd fire re	esistance		טן			
2 5/16 in) with fixed screw terminal blocks 3 3/16 in) with removable screw terminal blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets privided Degree of protection provided by the covering IP65 (front) Connection method Removable screw terminal blocks for wires up to 2,5 mm² by request Micro-MaTch connector Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Ogerating temperature Operating temperature From 0 to 55 °C (from -13 to 158 °F) Operating temperature From 0 to 55 °C (from -13 to 158 °F) Operating temperature VEEE 2012/19/EU REACH (EC) Regulatid 1907/2006 Pollution status of the control device 2 Conformity Rold S 2011/65/CE WEEE 2012/19/EU REACH (EC) Regulatid 1907/2006 Earthing methods for the control device None None Rated impulse-withstand voltage 2,5 KV Over-voltage category NTC probes Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) Measurement field From -40 to 10 °C (from -58 to 302 °F) Probestor Measurement field From -40 to 10 °C (fr										
blocks Mounting methods for the control device To be fitted to a panel, snap-in brackets pr vided Degree of protection provided by the cover- ing To be fitted to a panel, snap-in brackets pr vided Connection method Fixed screw terminal blocks for wires up to 2,5 mm ² . Micro-MaTch connector Strange terminal blocks Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Micro-MaTch connector Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0.55 c° (from -13 to 158 °F) Storage temperature Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device Z Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure										
Mounting methods for the control device To be fitted to a panel, snap-in brackets privided Degree of protection provided by the covering IP65 (front) Connection method IP65 (front) Fixed screw terminal blocks Removable screw terminal blocks for wires up to 2,5 mm² Micro-MaTch connector for wires up to 2,5 mm² blocks for wires up to 2,5 mm² Micro-MaTch connector Digital inputs: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Operating temperature Power supply: 10 m (32.8 ft) Conformity Relative humidity without condensate from 3 to 50% Pollution status of the control device Z Z Conformity REACH (EC) Regulation 100% REACH (EC) Regulation 100% Power supply: LVD 2014/35/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (±Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage Software class and structure A Analogue inputs Software class on d structure Analogue inputs 2 for NTC or Pt 1000 probes (cabinet profiand evaporator probe) Measurement field From -40 to 105 °C (from -58 to 302 °F) Probes Sensor type B3435 (10 KQ @ 25 °C, 72 °F)	2 5/16	5 in) w	ith fixe	ed screw	terminal	blocks	3 3/16	5 in) wi	th removable screw termina	
vided Degree of protection provided by the cover- ing IP65 (front) Connection method Removable screw terminal blocks for wires up to 2,5 mm ² Micro-MaTch connector Fixed screw terminal blocks for wires up to 2,5 mm ² Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Micro-MaTch connector Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 0 to 55 °C (from -13 to 158 °F) Operating temperature Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulative 1907/2006 EME 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) Measurement field From -40 to 10 5 °C (from -40 t							blocks			
Degree of protection provided by the covering IP65 (front) Ing Connection method Fixed screw terminal blocks for wires up to 2,5 mm² by request Micro-MaTch connector Maximup permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 0 to 55 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 3 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulated 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply LVD 2014/35/UE Power supply LVD 2014/35/UE Power supply LVD 2014/35/UE Software class and structure A Analogue inputs A Analogue inputs A Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet profinal and evaporator probe) NTC probes Sensor type 63435 (10 KG @ 25 °C, 77 °F) Meas	Mount	ing m	ethods	for the o	control de	evice	To be	fitted to	a panel, snap-in brackets pro	
ing Connection method Fixed screw terminal blocks for wires up to 2,5 mm ² Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Micro-MaTch connector Maximum permitted length for connection cables Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from -13 to 158 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulatid 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prof and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 0 °C, 32 °F) Measurement field From -50 to 150 °C (from -58 to 302 °F)							vided			
Connection method Fixed screw terminal blocks for wires up to 2,5 mm² Removable screw terminal blocks for wires up to 2,5 mm² by request Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 0 to 55 °C (from 32 to 131 °F) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating temperature From -25 to 70 °C (from -31 to 158 °F) Pollution status of the control device 2 Conformity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulatid 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue input	Degree	e of p	rotectio	on provid	led by th	e cover-	IP65 (f	ront)		
Fixed screw terminal blocks for wires up to 2,5 mm ² Removable screw terminal blocks for wires up to 2,5 mm ² ; by request Micro-MaTch connector Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From 0 to 55 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply I15 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prof and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 2.5 °C, 77 °F) Measurement field From -50 to 150 °C (from -48 to 302 °F) Resolution 0.1 °C (1 °F)	ing									
for wires up to 2,5 mm² blocks for wires up to 2,5 mm²; by request Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Digital ioutputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating temperature From -25 to 70 °C (from -13 to 158 °F) Operating temperature Relative humidity without condensate from : to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 Power supply UVD 2014/35/UE Power supply LVD 2014/35/UE Power supply LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (± Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet proform -40 to 221 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Prome -50 to 150 °C (from -58 to 302 °F)	Conne	ction	method	d						
2,5 mm²; by request Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 32 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 100/2006 PMC 2014/30/UE LVD 2014/35/UE Power supply LVD 2014/35/UE Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet proton 40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) Resolution 0.1 °C (1 °F) Pt 1000 </td <td>Fixed</td> <td>screw</td> <td>ı term</td> <td>inal bloo</td> <td>ks Rem</td> <td>iovable</td> <td>screw</td> <td>terminal</td> <td>Micro-MaTch connector</td>	Fixed	screw	ı term	inal bloo	ks Rem	iovable	screw	terminal	Micro-MaTch connector	
Maximum permitted length for connection cables Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 10 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) NTC probes Sensor type B3435 (10 KQ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (10 KQ @ 0 °C, 32 °F) Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution	for wir	res up	to 2,5	mm²	bloc	ks for	wires	up to		
Power supply: 10 m (32.8 ft) Analogue inputs: 10 m (32.8 ft) Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 0 °C, 32 °F) Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) <t< td=""><td></td><td></td><td></td><td></td><td>2,5</td><td>mm²; by</td><td>request</td><td></td><td></td></t<>					2,5	mm²; by	request			
Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 PMC 2014/30/UE LVD 2014/35/UE Power supply Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet proland evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 0 °C, 32 °F) Probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other outputs Dry contact: Input configurable for analogue input (condenser probe) digital input (door switch input) Power supply: none Protection: none Power supply: none	Maxim	num p	ermitte	ed length	for conn	ection cat	oles			
Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 3 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) MCC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (11 KΩ @ 0 °C, 32 °F) probes Input configurable for analogue input (condenser probe) digital input (door switch input) Ol or C (1 °F). Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply:	Power	suppl	y: 10 r	n (32.8 i	t)		Analog	ue inputs	: 10 m (32.8 ft)	
Operating temperature From 0 to 55 °C (from 32 to 131 °F) Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 3 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) MCC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (11 KΩ @ 0 °C, 32 °F) probes Input configurable for analogue input (condenser probe) digital input (door switch input) Ol or C (1 °F). Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply:										
Storage temperature From -25 to 70 °C (from -13 to 158 °F) Operating humidity Relative humidity without condensate from 1 to 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 RMS 2011/65/CE WEEE 2012/19/EU REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Barthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs Sensor type 83435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 83435 (1 KΩ @ 0 °C, 32 °F) Probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other ontputs Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none none Other outputs: I SSR/PWM Power supply: none <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Operating humidity Relative humidity without condensate from ito 90% Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 RoHS 2011/65/CE WEEE 2012/19/EU REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply LVD 2014/35/UE Power supply LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet proform 40 to 105 °C (from -40 to 221 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) Resolution 0.1 °C (1 °F) Power supply: Input configurable for analogue input (condenser probe) digital input (door switch input) Power supply: none Power supply: I SSR/PWM Power supply: none Protection:									· · · · ·	
to 90%Pollution status of the control device2ConformityReACH control deviceREACH (EC) Regulation 1907/2006EMC 2014/30/UELVD 2014/35/UEFOWER SUPLY SUP SUPLY SUPL										
Pollution status of the control device 2 Conformity REACH (EC) Regulation 1907/2006 RoHS 2011/65/CE WEEE 2012/19/EU REACH (EC) Regulation 1907/2006 EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) Probes Resolution 0.1 °C (1 °F). Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) probes Input configurable for analogue input (condenser probe) Other inputs Input configurable for analogue input (condenser probe) Other outputs: Input configurable for analogue input (condenser probe) Other outputs: 1 SSR/PWM Power supply: none Power supply: none Powe	operd	g 11	armant)	,					.,	
Conformity REACH (EC) Regulation (1907/2006) Render Supply LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (±142), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) Other supply: none Protection: none Power supply: none Power supply: none Protection: none Power supply: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. Frequency	Polluti	on eta	tus of	the cont	ol device	,	1	-		
RoHS 2011/65/CE WEEE 2012/19/EU REACH (EC) regulation (EC) (EC) (EC) (EC) (EC) (EC) (EC) (EC)			145 01	e conti	S. GEVICE		-			
EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet profand evaporator probe) NTC probes Sensor type B3435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Protection: 0.1 °C (1 °F). Input configurable for analogue input (condenser probe) Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: Frequency: none power supply: PWM sinal: Power supply: 1 SSR/PWM none PWM sinal: Power supply: 1 SSR/PWM 1 SSR/PWM PWM sinal: Power supply: </td <td></td> <td></td> <td>65/05</td> <td></td> <td>WEE</td> <td>E 2012/1</td> <td>0/EU</td> <td></td> <td>REACH (EC) Desulation</td>			65/05		WEE	E 2012/1	0/EU		REACH (EC) Desulation	
EMC 2014/30/UE LVD 2014/35/UE Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 H2), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prol and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: 5 VDC, 1,5 mA Power supply: none none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 1.2 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Potection: none Digital outputs 4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard	лuПЗ .	2011/	03/CE			. 2012/1	J/ EU			
Power supply 115 230 VAC (+10% -15%), 50/60 Hz (4 Hz), max. 3.2 VA insulated Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prof and evaporator probe) NTC probes Sensor type B3435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) Measurement field From -50 to 150 °C (from -80 to 302 °F) Resolution 0.1 °C (1 °F) Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) 0.1 °C (1, °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) 0.1 °C (1, °F). Other outputs: Input configurable for analogue input (condenser probe) digital input (door switch input) 0.1 °C (1, 5 mA Power supply: none Preductor: 1 SSR/PWM	FMC 2	014/2	0/115				11/0 22	14/25/11	•	
Hz), max. 3.2 VA insulatedEarthing methods for the control deviceNoneZ,5 KVOver-voltage categoryIISoftware class and structureAAnalogue inputsZ for NTC or Pt 1000 probes (cabinet profection and evaporator probe)NTC probesSensor typeB3435 (10 KΩ @ 25 °C, 77 °F)Measurement fieldFrom -40 to 105 °C (from -40 to 221 °F)Resolution0.1 °C (1 °F)Pt 1000Sensor type63435 (1 KΩ @ 0 °C, 32 °F)ProbeResolution0.1 °C (1 °F).Other inputsInput configurable for analogue input (condenser probe)digital input door switch input:Other outputs:Input configurable for analogue: input (condenser probe)digital input door switch input:Other outputs:S VDC, 1,5 mAPower supply: nonePower supply: 12 VDC (+16 % -25 %), 20 mA max.Frequency:0 150 HzProtection:Digital outputs							1			
Earthing methods for the control device None Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2,5 KV NTC probes Sensor type Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type Basurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) Other outputs: Input configurable for analogue input (condenser probe) Other outputs: 1 SSR/PWM PWM sinal: Power supply: none Power supply: none none Protection: none Digital outputs: 4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard	rower	suppl	у							
Rated impulse-withstand voltage 2,5 KV Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet prof and evaporator probe) NTC probes Sensor type B3435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) Probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Input configurable for analogue input (condenser probe) digital input (door switch input) Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) S VDC, 1,5 mA Power supply: none none Power supply: none Inone PWM sinal: Power supply: 1 SSR/PWM PWM sinal: Power supply: 0 150 Hz Protection: none 10 150 Hz Digital outputs 4 with sealed electro-mechanical relays in compliance with E N 60079-15 standard	Earth	00.7	thod	for the	ontrol	vice		ил. 3.2 V	ה וווטעומנלע	
Over-voltage category II Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet profand evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement Field From -40 to 105 °C (from -40 to 221 °F) Pt 1000 Sensor type 63435 (1 KΩ @ 0 °C, 32 °F) probes Measurement Field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F) Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Power supply: none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 1 SSR/PWM Precetion: 0 150 Hz Protection: none Digital outputs 4 with seale electro-mechanical relays in compliance with the EN 60079-15 standard						VILE				
Software class and structure A Analogue inputs 2 for NTC or Pt 1000 probes (cabinet profand evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type 63435 (10 KΩ @ 0 °C, 32 °F) Pt 1000 Sensor type 63435 (10 KΩ @ 0 °C, 32 °F) Probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: 5 VDC, 1,5 mA Power supply: none Power supply: none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 1.5SR/PWM PWM sinal: Power supply: 0 150 Hz Protection: none 1.50 Hz Digital outputs 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard					ntage					
Analogue inputs 2 for NTC or Pt 1000 probes (cabinet proi and evaporator probe) NTC probes Sensor type 63435 (10 KΩ @ 25 °C, 77 °F) Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Protection: none PWM sinal: Power supply: 1 SSR/PWM PWM sinal: Power supply: 0 150 Hz Protection: none 150 °C (±16 % -25 %), 20 mA max. Frequency: 0 150 Hz none Digital outputs 4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard										
and evaporator probe) NTC probes Sensor type $B3435 (10 \ K\Omega @ 25 \ °C, 77 \ °F)$ Measurement field From -40 to 105 °C (from -40 to 221 °F) Resolution $0.1 \ °C (1 \ °F)$ Pt 1000 Sensor type $B3435 (1 \ K\Omega @ 0 \ °C, 32 \ °F)$ measurement field From -50 to 150 °C (from -80 to 302 °F) Probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution $0.1 \ °C (1 \ °F)$. $0.1 \ °C (1 \ °F)$. Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) $0.1 \ °C (1 \ °F)$. Other outputs: Input configurable for analogue input (condenser probe) digital input (door switch input) $none$ Power supply: none none Power supply: none $none$ PWM sinal: Power supply: $1 \ SSR/PWM$ PWM sinal: Power supply: $0 \ 150 \ Hz$ Protection: none $0 \ 150 \ Hz$ Digital outputs: 4 with sealed electro-mechanical relays in compliance with EN 60079-15 standard				structur	e					
$\begin{tabular}{ c c c c } \hline NTC probes & Sensor type & B3435 (10 K\Omega @ 25 °C, 77 °F) & \\ \hline Measurement field & From -40 to 105 °C (from -40 to 221 °F) & \\ \hline Resolution & 0.1 °C (1 °F) & \\ \hline Pt 1000 & Sensor type & B3435 (1 K\Omega @ 0 °C, 32 °F) & \\ \hline Measurement field & From -50 to 150 °C (from -58 to 302 °F) & \\ \hline Resolution & 0.1 °C (1 °F). & \\ \hline Other inputs & Input configurable for analogue input (condenser probe) & \\ \hline digital input (door switch input) & \\ \hline Dry contact: & S VDC, 1,5 mA & \\ \hline Power supply: & none & \\ \hline Protection: & none & \\ \hline Other outputs: & 1 SSR/PWM & \\ \hline Pwer supply: & 12 VDC (+16 % -25 %), 20 mA max. & \\ \hline Frequency: & none & \\ \hline Dry contact: & 1 sensor type & \\ \hline Digital outputs & 0 150 Hz & \\ \hline Digital outputs & 4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard & \\ \hline \end{tabular}$	Analog	gue in	puts							
$\begin{tabular}{ c c c c } \hline \mbox{Measurement field} & \mbox{From -40 to 105 °C (from -40 to 221 °F)} \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Measurement field} & \mbox{From -50 to 150 °C (from -58 to 302 °F)} \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Measurement field} & \mbox{From -50 to 150 °C (from -58 to 302 °F)} \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Measurement field} & \mbox{From -50 to 150 °C (from -58 to 302 °F)} \\ \hline \mbox{Resolution} & 0.1 °C (1 °F) \\ \hline \mbox{Other inputs} & \mbox{Input configurable for analogue input (condenser probe)} \\ \hline \mbox{digital input (door switch input)} \\ \hline \mbox{Dry contact:} & \mbox{S VDC, 1,5 mA} \\ \hline \mbox{Power supply:} & \mbox{none} \\ \hline \mbox{Protection:} & \mbox{none} \\ \hline \mbox{Other outputs:} & \mbox{1 SSR/PWM} \\ \hline \mbox{Power supply:} & \mbox{1 SSR/PWM} \\ \hline \mbox{Power supply:} & \mbox{1 SSR/PWM} \\ \hline \mbox{Power supply:} & \mbox{1 So 25 %), 20 mA max.} \\ \hline \mbox{Frequency:} & \mbox{none} \\ \hline \mbox{Digital outputs} & \mbox{4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard } \\ \hline \end{tabular}$							1			
Resolution 0.1 °C (1 °F) Pt 1000 Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) input configurable for analogue input (condenser probe) Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Protection: none Power supply: none Protection: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	NTC pr	robes					1			
Pt 1000 probes Sensor type B3435 (1 KΩ @ 0 °C, 32 °F) Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Power supply: none Protection: none PWM sinal: Power supply: 1 SSR/PWM PWM sinal: Protection: 0 150 Hz Protection: none 12 VDC (+16 % -25 %), 20 mA max. Protection: none 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard					nt field		1		5 °C (from -40 to 221 °F)	
probes Measurement field From -50 to 150 °C (from -58 to 302 °F) Resolution 0.1 °C (1 °F). Other inputs Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Protection: none PWM sinal: Power supply: 1 SSR/PWM PWM sinal: Power supply: 0 150 Hz Prequency: 0 150 Hz 1000000000000000000000000000000000000			Re	solution			0.1 °C (1 °F)			
Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: S VDC, 1,5 mA Power supply: none Power supply: none Other outputs: I SSR/PWM PWM sinal: Power supply: 1 SSR/PWM Prequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	Pt 100	00	Se	nsor type	9		ß3435 (1 KΩ @ 0 °C, 32 °F)			
Resolution 0.1 °C (1 °F). Other inputs Input configurable for analogue input (condenser probe) digital input (door switch input) Dry contact: S VDC, 1,5 mA Power supply: none Power supply: none Other outputs: I SSR/PWM PWM sinal: Power supply: 1 SSR/PWM Prequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	probes	5	Me	asureme	nt field					
digital input (door switch input) Dry contact: 4 kind of contact: 5 VDC, 1,5 mA Power supply: none none Protection: none none Other outputs: 1 SSR/PWM frequency: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. frequency: Protection: none none frequency: 0 150 Hz Digital outputs: 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard frequency: frequency:			Re	solution			1			
digital input (door switch input) Dry contact: 4 kind of contact: 5 VDC, 1,5 mA Power supply: none none Protection: none none Other outputs: 1 SSR/PWM frequency: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. frequency: Protection: none none frequency: 0 150 Hz Digital outputs: 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard frequency: frequency:	Other	inputs	5		Inpu	it configu	rable fo	r analogi	ue input (condenser probe) d	
Dry contact: Kind of contact: 5 VDC, 1,5 mA Power supply: none Protection: none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 1 SSR/PWM Prequency: 12 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs: 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard										
Power supply: none Protection: none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 1 2 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs: 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	Dry co	ontact						1.20		
Protection: none Other outputs: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs: 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	.,									
Other outputs: 1 SSR/PWM PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance withe EN 60079-15 standard							-			
PWM sinal: Power supply: 12 VDC (+16 % -25 %), 20 mA max. Frequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with the EN 60079-15 standard	Other	outor	te		Frot		1 600 /	D\//M	Lione	
Frequency: 0 150 Hz Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with EN 60079-15 standard					ha		1		2E 0() 20 A	
Protection: none Digital outputs 4 with sealed electro-mechanical relays in compliance with EN 60079-15 standard	r WM S	mal:			uy.		1		-23 %), 20 MA Max.	
Digital outputs 4 with sealed electro-mechanical relays in compliance wi the EN 60079-15 standard								υΠΖ		
the EN 60079-15 standard				stection:	Ι.					
	Digital	outpu	uts						icai relays in compliance wit	
Kelay K1 SPST, 16 A res. @ 250 VAC					the	EN 60079			0.050.14.5	
			_				SPST, 16 A res. @ 250 VAC			
Relay K2 SPST, 8 A res. @ 250 VAC Polov K3 SPST 5 A res. @ 250 VAC						SPST, 8 A res. @ 250 VAC				

	Relay K3	SPST, 5 A res. @ 250 VAC
bad	Relay K4	SPST, 5 A res. @ 250 VAC
	Type 1 or Type 2 Actions	Type 1
	Additional features of Type 1 or Type 2 ac-	С
zone	tions	
	Displays	3 digits custom display, with function icons
	Alarm buzzer	Incorporated
	Communication ports:	1 TTL MODBUS slave port for EVconnect app,
		EPoCA remote monitoring system or for BMS
mpres-		
ariable ans		
ariable		
fans		
5		
5	N.B.	
s		ing to local regulations governing the collection
5	of electrical and electronic waste.	ing to local regulations governing the concetion
or door	This document and the solutions contained therein	are the intellectual property of EVCO and thus pro-
		de (CPI). EVCO imposes an absolute ban on the full
	or partial reproduction and disclosure of the conten	t other than with the express approval of EVCO. The
	customer (manufacturer, installer or end-user) assu	mes all responsibility for the configuration of the de-
	vice. EVCO accepts no liability for any possible error	ors in this document and reserves the right to make
	any changes, at any time without prejudice to the	essential functional and safety features of the equip-

