



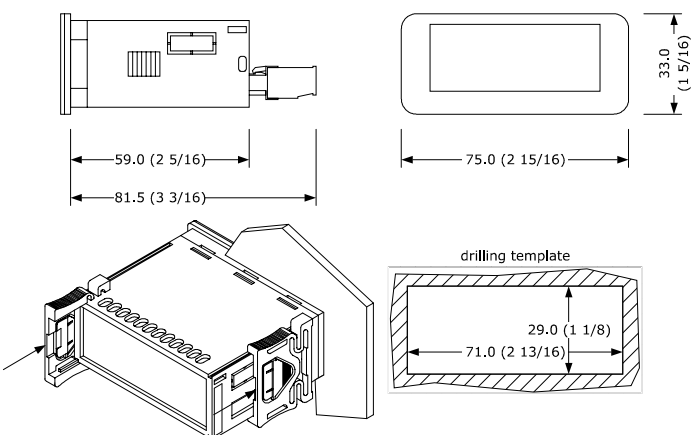
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CONSIDER THE ENVIRONMENT

E ENGLISH

- Controllers for normal and low temperature units.
- Power supply 230 VAC or 12-24 VAC/DC (according to the model).
- Cabinet probe and evaporator probe (PTC/NTC).
- Door switch/multi-purpose input.
- Compressor relay 16 A res. @ 250 VAC.
- Alarm buzzer.
- TTL MODBUS slave port for EVconnect APP or BMS.
- Cooling or heating operation.

1 MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.

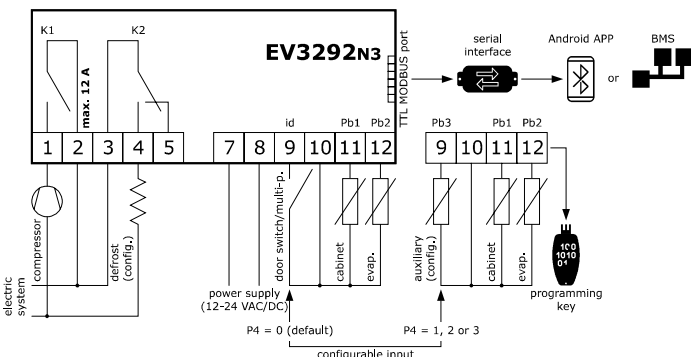
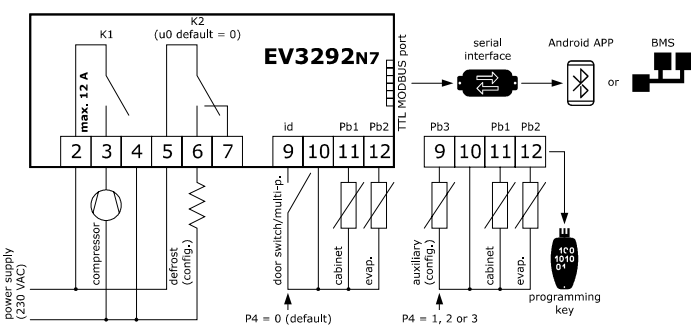


INSTALLATION PRECAUTIONS

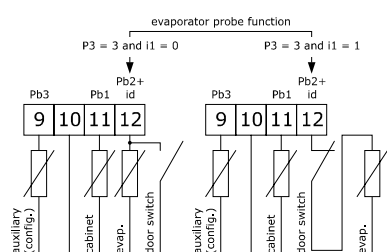
- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)
- Ensure that the working conditions are within the limits stated in the **TECHNICAL SPECIFICATIONS** section.
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

2 ELECTRICAL CONNECTION

N.B.
- Use cables of an adequate section for the current running through them.
- To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables.



Options for electrical connection with cabinet probe, evaporator probe + door switch input and auxiliary probe; during the door opening the evaporator probe alarm is disabled.



PRECAUTIONS FOR ELECTRICAL CONNECTION

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

3 FIRST-TIME

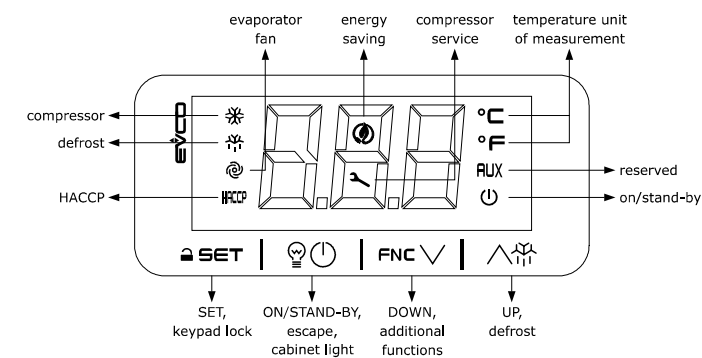
1. Install following the instructions given in the section **MEASUREMENTS AND INSTALLATION**.
2. Power up the device as shown in the section **ELECTRICAL CONNECTION** and an internal test will be run. The test normally takes a few seconds, when it is finished the display will switch off.
3. Configure the device as shown in the section **Setting configuration parameters**. Recommended configuration parameters for first-time use.

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

Then check that the remaining settings are appropriate; see the section **CONFIGURATION PARAMETERS**.

4. Disconnect the device from the mains.
5. Make the electrical connection as shown in the section **ELECTRICAL CONNECTION** without powering up the device.
6. For the connection in an RS-485 network connect the interface EVIF22TSX or EVIF23TSX, to activate real time functions connect the module EVIF23TSX, to use the device with the APP EVconnect connect the interface EVIF25TBX; see the relevant instruction sheets.
7. Power up the device.

4 USER INTERFACE AND MAIN FUNCTIONS



4.1 Switching the device on/off

1. If POF = 1, touch the ON/STAND-BY key for 4 s.

If the device is switched on, the display will show the P5 value ("cabinet temperature" default); if the display shows an alarm code, see the section **ALARMS**.

LED	ON	OFF	FLASHING
	compressor on	compressor off	- compressor protection active - setpoint setting active
	defrost or pre-dripping active	-	- defrost delay active - dripping active
	evaporator fan on	evaporator fan off	evaporator fan stop active
HACCP	saved HACCP alarm in EVlink	-	-
	energy saving active	-	-
	request for compressor service	-	- settings active - access to additional functions active - operation with EVconnect APP active
°C/°F	view temperature	-	overcooling or overheating active
	device off	device on	device on/off active

If 30 s have elapsed without the keys being pressed, the display will show the "Loc" label and the keypad will lock automatically.

4.2 Unlock keypad

Touch a key for 1 s: the display will show the label "UnL".

4.3 Set the setpoint

Check that the keypad is not locked.

1. Touch the SET key.
2. Touch the UP or DOWN key within 15 s to set the value within the limits r1 and r2 (default "-50... 50")
3. Touch the SET key (or do not operate for 15 s).

4.4 Activate manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active.

1. Touch the UP key for 2 s.

If P3 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

4.5 Cabinet light on/off (if u0 = 3)

1. Touch the ON/STAND-BY key.

4.6 Silence buzzer

Touch a key.

If u0 = 2 and u4 = 1, the alarm output switches off.

5 ADDITIONAL FUNCTIONS

5.1 Activate/deactivate overcooling, overheating and manual energy saving

Check that the keypad is not locked.

1. Touch the DOWN key.

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0, r8 = 1 and defrost not active	the setpoint becomes "setpoint - 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 "setpoint + r4", at maximum for HE2 duration

5.2 View/delete compressor functioning hours and view compressor start-up number

Check that the keypad is not locked.

1. Touch the DOWN key for 4 s.
2. Touch the UP or DOWN key within 15 s to select a label.

LAB.	DESCRIPTION
CH	view compressor functioning hours (hundreds)
rCH	delete compressor functioning hours
nS1	compressor start-up number (thousands)

3. Touch the SET key.
4. Touch the UP or DOWN key to set "149" (when label "rCH" is selected).
5. Touch the SET key.
6. Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.

5.3 View the temperature detected by the probes

Check that the keypad is not locked.

1. Touch the DOWN key for 4 s.
 2. Touch the UP or DOWN key within 15 s to select a label.
- | LAB. | DESCRIPTION |
|------------|--|
| Pb1 | cabinet temperature (if P4 = 0, 1 or 2)
inlet air temperature (if P4 = 3) |
| Pb2 | evaporator temperature (if P3 = 1 or 2) |
| Pb3 | auxiliary temperature (if P4 = 1, 2 or 3) |
| Pb4 | calculated product temperature (CPT; if P4 = 3) |
3. Touch the SET key.
 4. Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.

6 SETTINGS

6.1 Setting configuration parameters

1. Touch the SET key for 4 s: the display will show the label "PA".
2. Touch the SET key.
3. Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").
4. Touch the SET key (or do not operate for 15 s): the display will show the label "SP".
5. Touch the UP or DOWN key to select a parameter.
6. Touch the SET key.
7. Touch the UP or DOWN key within 15 s to set the value.
8. Touch the SET key (or do not operate for 15 s).
9. Touch the SET key for 4 s (or do not operate for 60 s) to exit the procedure.

6.2 Set the date, time and day of the week (if module EVIF23TSX or interface EVIF25TBX is connected)

N.B.
- Do not disconnect the device from the mains within two minutes since the setting of the time and day of the week.
- If the device communicates with the APP EVconnect, the date, time and day of the week will automatically be set by the smartphone or tablet.

Check that the keypad is not locked.

1. Touch the DOWN key for 4 s.
2. Touch the UP or DOWN key within 15 s to select the label "rtc".
3. Touch the SET key: the display will show the label "yy" followed by the last two figures of the year.
4. Touch the UP or DOWN key within 15 s to set the year.

LAB.	DESCRIPTION OF THE NUMBERS FOLLOWING THE LABEL
n	month (01... 12)
d	day (01... 31)
h	time (00... 23)
n	minute (00... 59)

6. Touch the SET key: the display will show the label for the day of the week.
7. Touch the UP or DOWN key within 15 s to set the day of the week.

LAB.	DESCRIPTION
Mon	Monday
tuE	Tuesday
UEd	Wednesday
thu	Thursday
Fri	Friday
Sat	Saturday
Sun	Sunday

8. Touch the SET key: the device will exit the procedure.
9. Touch the ON/STAND-BY key to exit the procedure beforehand.

6.3 Restore the factory settings (default) and store customized settings as default

N.B.
- Check that the factory settings are appropriate; see the section **CONFIGURATION PARAMETERS**.
- the storing of customized settings overwrites the default.

1. Touch the SET key for 4 s: the display will show the label "PA".
2. Touch the SET key.
3. Touch the UP or DOWN key within 15 s to set the value.

VAL.	DESCRIPTION
149	value to restore the factory settings (default)
161	value to store customized settings as default

4. Touch the SET key (or do not operate for 15 s): the display will show the label "DEF" (when value "149" is set) or the label "MAP" (when value "161" is set).
5. Touch the SET key.
6. Touch the UP or DOWN key within 15 s to set "4".
7. Touch the SET key (or do not operate for 15 s): the display will show for 4 s "- - -" flashing, then the device will exit the procedure.
8. Interrupt the power supply to the device.
9. Touch the SET key 2 s before action 6. to exit the procedure beforehand.

7 CONFIGURATION PARAMETERS

N.	PAR.	DEF.	SETPOINT	MIN... MAX.
1	SP	0.0	setpoint	r1... r2
N.	PAR.	DEF.	ANALOGUE INPUTS	
2	CA1	0.0	cabinet probe offset	-25... 25 °C/°F if P4 = 3, air in probe offset
3	CA2	0.0	evaporator probe offset	-25... 25 °C/°F
4	CA3	0.0	auxiliary probe offset	-25... 25 °C/°F
5	P0	1	probe type	0 = PTC 1 = NTC
6	P1	1	enable °C decimal point	0 = no 1 = yes
7	P2	0	temperature unit of measurement	0 = °C 1 = °F

8	P3	1	evaporator probe function	0 = disabled 1 = defrost + fan 2 = fan 3 = defrost + fan + door switch (evaporator probe alarm disabled)
9	P4	0	configurable input function	0 = digital input 1 = condenser probe 2 = critical temperature probe 3 = air out probe if P4 = 3, regulation temperature = product temperature (CPT)
10	P5	0	value displayed	0 = regulation temperature 1 = setpoint 2 = evaporator temperature 3 = auxiliary temperature 4 = air in temperature
11	P7	5	air in weight for calculated product temperature (CPT)	0... 10 % x 10 CPT = {[(P7 x (air in))] + [(100 - P7) x (air out)] : 100}
12	P8	5	display refresh time	0... 250 s : 10
N.	PAR.	DEF.	REGULATION	MIN... MAX.
13	r0	2.0	setpoint differential	1... 15 °C/°F
14	r1	-50	minimum setpoint	-99 °C/°F... r2
15	r2	50.0	maximum setpoint	r1... 199 °C/°F
16	r4	0.0	setpoint offset in energy saving	0... 99 °C/°F
17	r5	0	cooling or heating operation	0 = cooling 1 = heating
18	r6	0.0	setpoint offset in overcooling/overheating	0... 99 °C/°F
19	r7	30	overcooling/overheating duration	0... 240 min
20	r8	0	DOWN key additional function	0 = disabled 1 = overcooling/overheating 2 = energy saving
21	r12	0	position of the r0 differential	0 = asymmetric 1 = symmetric
N.	PAR.	DEF.	COMPRESSOR	MIN... MAX.
22	C0	0	compressor on delay after power-on	0... 240 min
23	C2	3	compressor off minimum time	0... 240 min
24	C3	0	compressor on minimum time	0... 240 s
25	C4	10	compressor off time during cabinet probe alarm	0... 240 min
26	C5	10	compressor on time during cabinet probe alarm	0... 240 min
27	C6	80.0	threshold for high condensation warning	0... 199 °C/°F differential = 2 °C/4 °F
28	C7	90.0	threshold for high condensation alarm	0... 199 °C/°F
29	C8	1	high condensation alarm delay	0... 15 min
30	C10	0	compressor hours for service	0... 999 h x 100 0 = disabled
N.	PAR.	DEF.	DEFROST (if r5 = 0)	MIN... MAX.
31	d0	8	automatic defrost interval	0... 99 h 0 = only manual if d8 = 3, maximum interval
32	d1	0	defrost type	0 = electric 1 = hot gas 2 = compressor stopped
33	d2	8.0	threshold for defrost end	-99... 99 °C/°F
34	d3	30	defrost duration	0... 99 min se P3 = 1, maximum duration
35	d4	0	enable defrost at power-on	0 = no 1 = yes
36	d5	0	defrost delay after power-on	0... 99 min
37	d6	2	value displayed during defrost	0 = regulation temperature 1 = display locked 2 = dEF label
38	d7	2	dripping time	0... 15 min
39	d8	0	defrost interval counting mode	0 = device on hours 1 = compressor on hours 2 = hours evaporator temperature < d9 3 = adaptive 4 = real time
40	d9	0.0	evaporation threshold for automatic defrost interval counting	-99... 99 °C/°F
41	d11	0	enable defrost timeout alarm	0 = no 1 = yes
42	d15	0	compressor on consecutive time for hot gas defrost	0... 99 min
43	d16	0	pre-dripping time for hot gas defrost	0... 99 min
44	d18	40	adaptive defrost interval	0... 999 min if compressor on + evaporator temperature < d22 0 = only manual
45	d19	3.0	threshold for adaptive defrost (relative to optimal evaporation temperature)	0... 40 °C/°F optimal evaporation temperature - d19
46	d20	180	compressor on consecutive time for defrost	0... 999 min 0 = disabled
47	d21	200	compressor on consecutive time for defrost after power-on and overcooling	0... 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled
48	d22	-2.0	evaporation threshold for adaptive defrost interval counting (relative to optimal evaporation temperature)	-10... 10 °C/°F optimal evaporation temperature + d22
N.	PAR.	DEF.	ALARMS	MIN... MAX.
49	AA	0	select value for high/low temperature alarms	0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature
50	A1	-10.0	threshold for low temperature alarm	-99... 99 °C/°F
51	A2	2	low temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute
52	A4	10.0	threshold for high temperature alarm	-99... 99 °C/°F
53	A5	2	high temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute
54	A6	12	high temperature alarm delay after power-on	0... 99 min x 10
55	A7	15	high/low temperature alarms delay	0... 240 min
56	A8	15	high temperature alarm delay after defrost	0... 240 min
57	A9	15	high temperature alarm delay after door closing	0... 240 min
58	A10	10	power failure duration for alarm recording	0... 240 min
59	A11	2.0	high/low temperature alarms reset differential	1... 15 °C/°F

N.	PAR.	DEF.	FANS	MIN... MAX.
60	F0	1	evaporator fan mode during normal operation	0 = off 1 = on 2 = according to F15 and F16 if compressor on 3 = thermoregulated (with F1) 4 = thermoregulated (with F1) if compressor on
61	F1	-4.0	threshold for evaporator fan operation	-99... 99 °C/°F differential = 1 °C/2 °F
62	F2	0	evaporator fan mode during defrost and dripping	0 = off 1 = on 2 = according to F0
63	F3	2	evaporator fan off maximum time	0... 15 min
64	F4	0	evaporator fan off time during energy saving	0... 240 s x 10
65	F5	10	evaporator fan on time during energy saving	0... 240 s x 10
66	F7	5.0	threshold for evaporator fan on after dripping (relative to setpoint)	-99... 99 °C/°F setpoint + F7
67	F9	0	evaporator fan off delay after compressor off	0... 240 s if F0 = 2
68	F15	0	evaporator fan off time with compressor off	0... 240 s if F0 = 2
69	F16	1	evaporator fan on time with compressor off	0... 240 s if F0 = 2
N.	PAR.	DEF.	DIGITAL INPUTS	MIN... MAX.
70	i0	5	door switch/multi-purpose input function	0 = disabled 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 4 = compressor + evaporator fan off, cabinet light on 5 = evaporator fan off + cabinet light on 6 = reserved 7 = energy saving 8 = iA alarm 9 = device on/off 10 = Cth alarm 11 = th alarm
71	i1	0	door switch/multi-purpose input activation	0 = with contact closed 1 = with contact open
72	i2	30	open door alarm delay	-1... 120 min -1 = disabled
73	i3	15	regulation inhibition maximum time with door open	-1... 120 min -1 = until the closing
74	i7	0	multi-purpose input alarm delay	-1... 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset
75	i10	0	door closed consecutive time for energy saving	0... 999 min after regulation temperature < SP 0 = disabled
76	i13	180	number of door openings for defrost	0... 240 0 = disabled
77	i14	32	door open consecutive time for defrost	0... 240 min 0 = disabled
N.	PAR.	DEF.	DIGITAL OUTPUTS	MIN... MAX.
78	u0	0	auxiliary relay function	0 = defrost 1 = evaporator fan 2 = alarm output 3 = cabinet light
79	u2	0	enable cabinet light in stand-by	0 = no 1 = yes manual
80	u4	0	enable alarm output off silencing the buzzer	0 = no 1 = yes
N.	PAR.	DEF.	ENERGY SAVING (if r5 = 0)	MIN... MAX.
81	HE2	0	energy saving maximum duration	0... 999 min -1 = until the door opening
N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if r5 = 0)	MIN... MAX.
82	H01	0	Monday energy saving time	0... 23 h
83	H02	0	Monday energy saving maximum duration	0... 24 h
84	H03	0	Tuesday energy saving time	0... 23 h
85	H04	0	Tuesday energy saving maximum duration	0... 24 h
86	H05	0	Wednesday energy saving time	0... 23 h
87	H06	0	Wednesday energy saving maximum duration	0... 24 h
88	H07	0	Thursday energy saving time	0... 23 h
89	H08	0	Thursday energy saving maximum duration	0... 24 h
90	H09	0	Friday energy saving time	0... 23 h
91	H10	0	Friday energy saving maximum duration	0... 24 h
92	H11	0	Saturday energy saving time	0... 23 h
93	H12	0	Saturday energy saving maximum duration	0... 24 h
94	H13	0	Sunday energy saving time	0... 23 h
95	H14	0	Sunday energy saving maximum duration	0... 24 h
N.	PAR.	DEF.	REAL TIME DEFROST (if d8 = 4)	MIN... MAX.
96	Hd1	h-	1st daily defrost time	h- = disabled
97	Hd2	h-	2nd daily defrost time	h- = disabled
98	Hd3	h-	3rd daily defrost time	h- = disabled
99	Hd4	h-	4th daily defrost time	h- = disabled
100	Hd5	h-	5th daily defrost time	h- = disabled
101	Hd6	h-	6th daily defrost time	h- = disabled
N.	PAR.	DEF.	SAFETIES	MIN... MAX.
102	POF	1	enable ON/STAND-BY key	0 = no 1 = yes
103	PAS	-19	password	-99... 999
104	PA1	426	level 1 password	-99... 999
105	PA2	824	level 2 password	-99... 999
N.	PAR.	DEF.	REAL TIME CLOCK	MIN... MAX.
106	Hr0	1	enable clock	0 = no 1 = yes
N.	PAR.	DEF.	DATA-LOGGING EVLINK	MIN... MAX.
107	bLE	1	enable Bluetooth	0 = no 1 = yes
108	rE0	15	data-logger sampling interval	0... 240 min
109	rE1	1	recorded temperature	0 = none 1 = cabinet 2 = evaporator 3 = auxiliary 4 = cabinet and evaporator 5 = all
N.	PAR.	DEF.	MODBUS	MIN... MAX.
110	LA	247	MODBUS address	1... 247
111	Lb	2	MODBUS baud rate	0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud parity even

8 ALARMS			
COD.	DESCRIPTION	RESET	REMEDIES
Pr1	cabinet probe alarm	automatic	- check P0
Pr2	evaporator probe alarm	automatic	- check probe integrity
Pr3	auxiliary probe alarm	automatic	- check electrical connection
rtc	clock alarm	manual	set date, time and day of the week
AL	low temperature alarm	automatic	check AA, A1 and A2
AH	high temperature alarm	automatic	check AA, A4 and A5
id	open door alarm	automatic	check i0 e i1
PF	power failure alarm	manual	- touch a key - check electrical connection
COH	high condensation warning	automatic	check C6
Csd	high condensation alarm	manual	- switch the device off and on - check C7
iA	multi-purpose input alarm	automatic	check i0 and i1
Cth	compressor thermal switch alarm	automatic	check i0 and i1
th	global thermal switch alarm	manual	- switch the device off and on - check i0 and i1
dFd	defrost timeout alarm	manual	- touch a key - check d2, d3 and d11

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 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 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 provided
Degree of protection provided by the covering		IP65 (front)
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		
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 to 90%	
Pollution status of the control device		
2		
Conformity		
RoHS 2011/65/CE	WEEE 2012/19/EU	REACH (EC) Regulation 1907/2006
EMC 2014/30/UE		LVD 2014/35/UE
Power supply		
230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 2 VA insulated in EV3... N7	12-24 VAC/DC (+10% -15%), 50/60 Hz (±3 Hz), max. 3 VA/2W in EV3... N3	
Earthing methods for the control device		
None		
Rated impulse-withstand voltage		
4 KV		
Over-voltage category		
III		
Software class and structure		
A		
Analogue inputs		
2 for PTC or NTC probes (cabinet probe and evaporator probe)		
PTC probes	Sensor type	KTY 81-121 (990 Ω @ 25 °C, 77 °F)
	Measurement field	From -50 to 150 °C (from -58 to 302 °F)
	Resolution	0.1 °C (1 °F)
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)
Other inputs		
Input configurable for analogue input (auxiliary probe) or digital input (door switch/multi-purpose, dry contact)		
Dry contact	Contact type	5 VDC, 1.5 mA
	Power supply	None
	Protection	None
Digital outputs		
2 electro-mechanical relays (compressor and auxiliary relay)		
Compressor relay (K1)		SPST, 16 A res. @ 250 VAC
Auxiliary relay (K2)		SPDT, 8 A res. @ 250 VAC
Type 1 or Type 2 Actions		
Type 1		
Additional features of Type 1 or Type 2 actions		
C		
Displays		
3 digits custom display, with function icons		
Alarm buzzer		
Incorporated		
Communication ports		
1 TTL MODBUS slave port for EVconnect APP or BMS		

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

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