

2.		Touch the UP or DOWN key within 15s to select a label.
	LAB.	DESCRIPTION
	LS	view HACCP alarm information
	rLS	delete HACCP alarm information
3.		Touch the SET key.
4.		Touch the UP or DOWN key to select an alarm code (to select label "LS") or to set "149" (to select label "rLS").
	COD.	DESCRIPTION
	AL	low temperature alarm
	AH	high temperature alarm
	id	open door alarm (if i4 = 1)
	PF	power failure alarm (available in EVJ213, EVJ214, EVJ214N7VXXRXV, EVJ215, EVJ234 and EVJ235 or in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225 with interface EVIF25TBX connected)
5.		Touch the SET key.
6.		Touch the ON/STAND-BY key (or do not operate for 60s) to exit the procedure.

Example of alarm information (e.g. a high temperature alarm).

8.0	critical value (calculated cabinet/product temperature) was 8.0 °C/°F
Sta	(available in EVJ213, EVJ214, EVJ214N7VXXRXV, EVJ215, EVJ234 and EVJ235 or in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225 with interface EVIF25TBX connected)
y15	alarm signalled in 2015
n03	alarm signalled in March
d26	alarm signalled on 26 March 2015
h16	alarm signalled at 16:00
n30	alarm signalled at 16:30
dur	
h01	alarm lasted 1h
n15	alarm lasted 1h 15min

5.5 View /delete compressor functioning hours

Check that the keypad isn't locked.

1.		Touch the DOWN key for 1s.
2.		Touch the UP or DOWN key within 15s to select a label.
	LAB.	DESCRIPTION
	CH1	view compressor functioning hundreds of hours
	CH2	view second compressor functioning hundreds of hours (if u1c... u5c = 1)
	rCH	delete compressor and second compressor functioning hours
3.		Touch the SET key.
4.		Touch the UP or DOWN key to set "149" (to select rCH).
5.		Touch the SET key.
6.		Touch the ON/STAND-BY key (or do not operate for 60s) to exit the procedure.

5.6 View the temperature detected by the probes

Check that the keypad isn't locked.

1.		Touch the DOWN key for 1s.
2.		Touch the UP or DOWN key within 15s to select a label.
	LAB.	DESCRIPTION
	Pb1	cabinet temperature (if P4 = 0, 1 or 2)
	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 60s) to exit the procedure.

6 DATA-LOGGER MODULE on SD CARD (not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)

6.1 Initial information

The data-logger module makes it possible to write information about the device on an SD card (in CSV format), in HACCP or service mode.

Data-logger module configuration parameters.

PAR.	DEF.	PARAMETER	MIN... MAX.
Sd0	30	SD card writing interval in HACCP mode	1... 30 min
Sd1	1	SD card writing interval in service mode	1... 30 min
Sd2	60	service mode duration	1... 240 min
Sd3	0	enable critical temperature recording	0 = no 1 = yes
Sd4	0	enable cabinet temperature recording	0 = no 1 = yes
Sd5	1	decimal separator type	0 = comma 1 = point

6.2 Writing in HACCP mode

Writing in HACCP mode is always activated, it generates a daily file and a monthly file.

Information written in HACCP mode.

- cabinet temperature (if Sd4 = 1, default "no")
- critical temperature (if Sd3 = 1, default "no")
- device switched on/off
- defrost activated/completed
- energy saving activated/deactivated
- alarm activated/restored
- power supply restored

The date and time is written for each piece of information.

6.3 Writing in service mode

Writing in service mode must be manually activated.

Information written in service mode.

- temperature detected by all probes
- enable/disable probes
- device switched on/off
- functions on/off
- defrost activated/completed
- energy saving activated/deactivated
- alarm activated/restored
- power supply restored

The date and time is written for each piece of information.

6.4 Activate /deactivate writing in service mode

Check that the keypad isn't locked.

1.		Touch the DOWN key for 1s.
2.		Touch the UP or DOWN key within 15s to select the label "SEr".
3.		Touch the SET key.
4.		Touch the UP or DOWN key within 15s to set "1" (activate writing) or "0" (deactivate writing).
5.		Touch the ON/STAND-BY key (or do not operate for 60s) to exit the procedure.

6.5 File names

Example of a daily file name written in HACCP mode (e.g. the file "log001_2015_03_26.csv").

001	the device address is 1 (parameter LA)
2015	the file was written in 2015
03	the file was written in March
26	the file was written on 26 March 2015

Example of a monthly file name written in HACCP mode (e.g. the file "log001_2015_m03.csv").

001	the device address is 1 (parameter LA)
2015	the file was written in 2015
m03	the file was written in March 2015

Example of a file name written in service mode (e.g. the file "log001_2015_0001.csv").

001	the device address is 1 (parameter LA)
2015	the file was written in 2015
0001	sequence number

6.6 View data-logger module alarms

Check that the keypad isn't locked.

1.		Touch the DOWN key for 1s.
2.		Touch the UP or DOWN key within 15s to select the label "Err".
3.		Touch the SET key.
4.		Touch the UP or DOWN key within 15s to see the alarm code.
	LAB.	DESCRIPTION
	FUL	no space left on SD card alarm
	Sd	SD card not inserted or not recognised alarm
5.		Touch the ON/STAND-BY key (or do not operate for 60s) to exit the procedure.

7 SETTINGS

7.1 Setting configuration parameters

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

7.2 Set the date, time and day of the week (available in EVJ213, EVJ214, EVJ214N7VXXRXV, EVJ215, EVJ234 and EVJ235 or in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225 with interface EVIF25TBX connected)

	N.B.
	- If the device is connected to the interface EVIF25TBX, 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 isn't locked.

1.		Touch the DOWN key for 1s.
2.		Touch the UP or DOWN key within 15s to select the label "rtc".
3.		Touch the SET key: the display will show the label "y" followed by the last two figures of the year.
4.		Touch the UP or DOWN key within 15s to set the year.
5.	Repeat actions 3 and 4 to set the next labels.	
	LAB.	MEANING OF THE NUMBERS FOLLOWING THE LABEL
	n	month (01... 12)
	d	day (01... 31)
	h	time (00... 23)
	n	minutes (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 15s 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.

7.3 Reset the factory settings

	N.B.
	Check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS.

1.		Touch the SET key for 4s: the display will show the label "PA".
2.		Touch the SET key.
3.		Touch the UP or DOWN key within 15s to set "149".
4.		Touch the SET key (or do not operate for 15s): the display will show the label "dEF".
5.		Touch the SET key.
6.		Touch the UP or DOWN key within 15s to set "1".
7.		Touch the SET key (or do not operate for 15s).
8.	Interrupt the power supply to the device.	
9.		Touch the SET key for 2s before action 6 to exit the procedure beforehand.

8 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
	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
9	P4	0	configurable input function (option 4 only available in EVJ224, EVJ225, EVJ234 and EVJ235)	0 = digital input 1 = condenser probe 2 = critical temperature probe 3 = air out probe 4 = evaporator 2 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	50	inlet air weight for calculated product temperature (CPT)	0... 100 % CPT = {[(P7 x (inlet air T)) + [(100 - P7) x (outlet air T)] : 100}
12	P8	5	display refresh time	0... 250 s : 10
N.	PAR.	DEF.	REGULATION	MIN... MAX.
13	r0	2.0	setpoint differential	1... 15 °C/°F if u1c... u5c 1, proportional band
14	r1	-40	minimum setpoint	-99 °C/°F... r2
15	r2	50.0	maximum setpoint	r1... 199 °C/°F
16	r3	0	enable setpoint block	0 = no 1 = yes
17	r4	0.0	setpoint offset in energy saving	0... 99 °C/°F
18	r5	0	cooling or heating operation	0 = cooling 1 = heating
19	r6	0.0	setpoint offset in overcooling/overheating	0... 99 °C/°F
20	r7	0	overcooling/overheating duration	0... 240 min
21	r12	1	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	C1	5	delay between 2 compressor switch-ons	0... 240 min
24	C2	3	compressor off minimum time	0... 240 min
25	C3	0	compressor on minimum time	0... 240 s
26	C4	10	compressor off time during cabinet probe alarm	0... 240 min
27	C5	10	compressor on time during cabinet probe alarm	0... 240 min
28	C6	80.0	threshold for high condensation warning	0... 199 °C/°F differential = 2 °C/4 °F
29	C7	90.0	threshold for high condensation alarm	0... 199 °C/°F
30	C8	1	high condensation alarm delay	0... 15 min
31	C10	0	compressor hours for service	0... 999 h x 100 0 = disabled
32	C11	10	compressor 2 on delay	0... 240 s
33	C12	2	compressor hours weight for balancing hours and switch-ons (BHC) - (only available in EVJ224, EVJ225, EVJ234 and EVJ235)	0... 10 BHC = {[C12 x (compressor hours)] + [C13 x (compressor switch-ons)]}
34	C13	1	compressor hours switch-ons for balancing hours and switch-ons (BHC) - (only available in EVJ224, EVJ225, EVJ234 and EVJ235)	0... 10 BHC = {[C12 x (compressor hours)] + [C13 x (compressor switch-ons)]}
35	C14	1	tie between compressors (only available in EVJ224, EVJ225, EVJ234 and EVJ235)	0 = according to C11 1 = according to r0
N.	PAR.	DEF.	DEFROST (if r5 = 0)	MIN... MAX.
36	d0	8	automatic defrost interval	0... 99 h 0 = only manual if d8 = 3, maximum interval
37	d1	0	defrost type	0 = electric 1 = hot gas 2 = compressor stopped
38	d2	2.0	threshold for defrost end	-99... 99 °C/°F
39	d3	30	defrost duration	0... 99 min se P3 = 1, maximum duration
40	d4	0	enable defrost at power-on	0 = no 1 = yes
41	d5	0	defrost dealy after power-on	0... 99 min
42	d6	1	value displayed during defrost	0 = regulation temperature 1 = display locked 2 = dEF label
43	d7	2	dripping time	0... 15 min
44	d8	0	defrost interval counting mode	0 = device on hours 1 = compressor on hours 2 = hours evaporator temperature < d9 3 = adaptive (if P4 = 4, device on hours) 4 = real time
45	d9	0.0	evaporation threshold for automatic defrost interval counting	-99... 99 °C/°F
46	d11	0	enable defrost timeout alarm	0 = no 1 = yes
47	d15	0	compressor on consecutive time for hot gas defrost	-20... 99 min if negative values, duration dripping heater on
48	d16	0	pre-dripping time for hot gas defrost	0... 99 min
49	d18	40	adaptive defrost interval	0... 999 min if compressor on + evaporator temperature < d22 0 = only manual
50	d19	3.0	threshold for adaptive defrost (relative to optimal evaporation temperature)	0... 40 °C/°F optimal evaporation temperature - d19
51	d20	180	compressor on consecutive time for defrost	0... 999 min 0 = disabled
52	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
53	d22	-2.0	evaporation threshold for adaptive defrost interval counting (relative to optimal evaporation temperature)	-10... 10 °C/°F optimal evaporation temperature + d22
54	d25	0	enable air out probe for defrost during evaporator probe alarm	0 = no 1 = yes
55	d26	6	defrost interval during evaporator probe alarm	0... 99 h 0 = only manual if d25 = 1
N.	PAR.	DEF.	ALARMS	MIN... MAX.
56	A0	0	select value for high/low temperature alarms	0 = regulation temperature 1 = evaporator temperature
57	A1	0.0	threshold for low temperature alarm	-99... 99 °C/°F

	58	A2	0	low temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute	
	59	A4	0.0	threshold for high temperature alarm	-99... 99 °C/°F	
	60	A5	0	high temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute	
	61	A6	120	high temperature alarm delay after power-on	0... 240 min	
	62	A7	15	high/low temperature alarms delay	0... 240 min	
	63	A8	15	high temperature alarm delay after defrost	0... 240 min	
	64	A9	15	high temperature alarm delay after door closing	0... 240 min	
	65	A10	10	power failure duration for alarm recording (not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)	0... 240 min	
	66	A11	2.0	high/low temperature alarms reset differential	1... 15 °C/°F	
67	A12	1	power failure alarm notification type (not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)	0 = HACCP LED 1 = HACCP LED + PF label + buzzer 2 = HACCP LED + PF label + buzzer (if duration > A10)		
	N.	PAR.	DEF.	FANS	MIN... MAX.	
	68	F0	1	evaporator fan mode during normal operation	0 = off 1 = on 2 = on if compressor on 3 = thermoregulated (with regulation temperature + F1) 4 = thermoregulated (with regulation temperature + F1) if compressor on 5 = according to F6 6 = thermoregulated (with F1) 7 = thermoregulated (with F1) if compressor on	
	69	F1	-4.0	threshold for evaporator fan operation	-99... 99 °C/°F	
	70	F2	0	evaporator fan mode during defrost and dripping	0 = off 1 = on 2 = according to F0	
	71	F3	2	evaporator fan off maximum time	0... 15 min def. 0 in EVJ203 ed EVJ213	
	72	F4	30	evaporator fan off time during energy saving	0... 240 s x 10 if F0 ≠ 5	
	73	F5	30	evaporator fan on time during energy saving	0... 240 s x 10 if F0 ≠ 5	
	74	F6	0	high/low humidity operation	0 = low humidity (with F17 and F18 if compressor off, on if compressor on) 1 = high humidity (on)	
	75	F7	5.0	threshold for evaporator fan on after dripping (relative to setpoint)	-99... 99 °C/°F setpoint + F7	
	76	F8	2.0	threshold for evaporator fan operation differential	1... 15 °C/°F	
	77	F9	10	evaporator fan off delay after compressor off	0... 240 s if F0 = 2 or 5	
	78	F10	1	condenser fan mode	0 = thermoregulated (with F11) 1 = thermoregulated (with F11) if compressor off, on if compressor on 2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre-dripping and dripping	
	79	F11	15.0	threshold for condenser fan on	0... 99 °C/°F differential = 2 °C/4 °F	
	80	F12	30	condenser fan off delay after compressor off	0... 240 s if P4 ≠ 1	
	81	F17	60	evaporator fan off time with low humidity	0... 240 s	
	82	F18	10	evaporator fan on time with low humidity	0... 240 s	
		N.	PAR.	DEF.	DIGITAL INPUTS	MIN... MAX.
		83	i0	5	door switch 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
84		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 -1 = until the closing	
87		i4	0	enable open door alarm recording	0 = no 1 = yes if i2 ≠ -1 and after i2	
88		i5	8	multi-purpose input function	0 = disabled 1 = energy saving 2 = iA alarm 3 = iSd alarm 4 = button-operated load 1 on 5 = button-operated load 2 on 6 = device on/off 7 = LP alarm 8 = C1t alarm 9 = C2t alarm	
89		i6	0	multi-purpose input activation	0 = with contact closed 1 = with contact open	
90		i7	0	multi-purpose input alarm delay	0... 120 min if i5 = 3 or 7, compressor on delay after alarm reset	
91		i8	0	number of multi-purpose input activations for high pressure alarm	0... 15 0 = disabled if i5 = 3	
92		i9	240	reset counter time for high pressure alarm	1... 999 min	
93		i10	0	door closed consecutive time for energy saving	0... 999 min after regulation temperature < SP 0 = disabled	
94		i13	180	number of door openings for defrost	0... 240 0 = disabled	
95		i14	32	door open consecutive time for defrost	0... 240 min 0 = disabled	

N.	PAR.	DEF.	DIGITAL OUTPUTS	MIN... MAX.
96	u1c	0	relay K1 configuration (options 14 and 15 only available in EVJ234 and EVJ235)	0 = first compressor 1 = second compressor 2 = evaporator fan 3 = condenser fan 4 = defrost 5 = cabinet light 6 = demisting 7 = door heaters 8 = heater for neutral zone 9 = dripping heater 10= button-operated load 1 11= button-operated load 2 12= alarm 13= on/stand-by 14= evaporator fan 2 15= defrost 2
97	u2c	4	relay K2 configuration (options 14 and 15 only available in EVJ234 and EVJ235)	0 = first compressor 1 = second compressor 2 = evaporator fan 3 = condenser fan 4 = defrost 5 = cabinet light 6 = demisting 7 = door heaters 8 = heater for neutral zone 9 = dripping heater 10= button-operated load 1 11= button-operated load 2 12= alarm 13= on/stand-by 14= evaporator fan 2 15= defrost 2
98	u3c	5	relay K3 configuration (options 14 and 15 only available in EVJ234 and EVJ235)	0 = first compressor 1 = second compressor 2 = evaporator fan 3 = condenser fan 4 = defrost 5 = cabinet light 6 = demisting 7 = door heaters 8 = heater for neutral zone 9 = dripping heater 10= button-operated load 1 11= button-operated load 2 12= alarm 13= on/stand-by 14= evaporator fan 2 15= defrost 2
99	u4c	2	relay K4 configuration (not available in EVJ203 and EVJ213, options 14 and 15 only available in EVJ234 and EVJ235)	0 = first compressor 1 = second compressor 2 = evaporator fan 3 = condenser fan 4 = defrost 5 = cabinet light 6 = demisting 7 = door heaters 8 = heater for neutral zone 9 = dripping heater 10= button-operated load 1 11= button-operated load 2 12= alarm 13= on/stand-by 14= evaporator fan 2 15= defrost 2
100	u5c	3	relay K5 configuration (not available in EVJ203, EVJ213, EVJ204, EVJ214, EVJ214N7VXXRXV, EVJ224 and EVJ234, options 14 and 15 only available in EVJ235)	0 = first compressor 1 = second compressor 2 = evaporator fan 3 = condenser fan 4 = defrost 5 = cabinet light 6 = demisting 7 = door heaters 8 = heater for neutral zone 9 = dripping heater 10= button-operated load 1 11= button-operated load 2 12= alarm 13= on/stand-by 14= evaporator fan 2 15= defrost 2
101	u2	0	enable cabinet light and button-operated load in stand-by	0 = no 1 = yes manual
102	u4	1	enable alarm output off silencing the buzzer	0 = no 1 = yes
103	u5	-1.0	threshold for door heaters on	-99... 99 °C/°F differential = 2 °C/4 °F
104	u6	5	demisting on duration	1... 120 min
105	u7	-5.0	neutral zone threshold for heating (relative to setpoint)	-99... 99 °C/°F differential = 2 °C/4 °F setpoint + u7
106	u9	1	enable alarm buzzer	0 = no 1 = yes
N.	PAR.	DEF.	REAL TIME CLOCK	MIN... MAX.
107	Hr0	1	enable clock (default 0 in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)	0 = no 1 = yes
N.	PAR.	DEF.	ENERGY SAVING (if r5 = 0)	MIN... MAX.
108	HE2	0	energy saving maximum duration	0... 999 min
N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if r5 = 0)	MIN... MAX.
109	H01	0	energy saving time	0... 23 h
110	H02	0	energy saving maximum duration	0... 24 h
N.	PAR.	DEF.	REAL TIME DEFROST (if d8 = 4)	MIN... MAX.
111	Hd1	h-	1st daily defrost time	h- = disabled
112	Hd2	h-	2nd daily defrost time	h- = disabled
113	Hd3	h-	3rd daily defrost time	h- = disabled
114	Hd4	h-	4th daily defrost time	h- = disabled
115	Hd5	h-	5th daily defrost time	h- = disabled
116	Hd6	h-	6th daily defrost time	h- = disabled
N.	PAR.	DEF.	DATA-LOGGING (not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)	MIN... MAX.
117	Sd0	30	SD card writing interval in HACCP mode	1... 30 min
118	Sd1	1	SD card writing interval in service mode	1... 30 min
119	Sd2	60	service mode duration	1... 240 min
120	Sd3	0	enable critical temperature recording	0 = no 1 = yes
121	Sd4	0	enable cabinet temperature recording	0 = no 1 = yes
122	Sd5	1	decimal separator type	0 = comma 1 = point
N.	PAR.	DEF.	SAFETIES	MIN... MAX.
123	POF	1	enable ON/STAND-BY key	0 = no 1 = yes
124	Loc	1	enable keypad lock (default 0 in the models with open-frame user interface)	0 = no 1 = yes
125	Sen	90	sensitivity capacitive keyboard (available in the models installed from behind)	60... 120 60= very sensitive
126	PAS	-19	password	-99... 999
127	PA1	426	level 1 password	-99... 999
128	PA2	824	level 2 password	-99... 999

	N.	PAR.	DEF.	DATA-LOGGING EVLINK	MIN... MAX.
	129	rE0	60	data-logger sampling interval	0... 240 min
	130	rE1	4	recorded temperature	0 = none 1 = cabinet 2 = evaporator 3 = auxiliary 4 = cabinet and evaporator 5 = all
	N.	PAR.	DEF.	MODBUS	MIN... MAX.
	131	LA	247	MODBUS address	1... 247
	132	Lb	2	MODBUS baud rate	0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud
	133	LP	2	parity	0 = none 1 = odd 2 = even
	N.	PAR.	DEF.	BLUETOOTH	MIN... MAX.
	134	bLE	1	enable Bluetooth	0 = no 1 = yes

9ALARMS				
COD.	DESCRIPTION		RESET	TO CORRECT
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 A0, A1 and A2
AH	high temperature alarm		automatic	check A4 and A5
id	open door alarm		automatic	check i0 and 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 i5 and i6
iSd	high pressure alarm		manual	- switch the device off and on - check i5, i6, i8, i9
LP	low pressure alarm		automatic	check i5 and i6
C1t	compressor thermal switch alarm		automatic	check i5 and i6
C2t	second compressor thermal switch alarm		automatic	check i5 and i6
dFd	defrost timeout alarm		manual	- touch a key - check d2, d3 and d11
FUL	SD card full alarm		manual	free up space on the SD card or replace it
Sd	No SD card inserted alarm		manual	insert the SD card or replace it

10TECHNICAL SPECIFICATIONS				
Purpose of the control device			Function controller	
Construction of the control device			Built-in electronic device	
Container		Models in plastic container		Black, self-extinguishing
		Open-frame models		Open-frame board
Category of heat and fire resistance			D	
Measurements		Models in plastic container		111.4 x 76.4 x 48.0 mm (4 3/8 x 3 x 1 15/16 in)
		Open-frame models		101.0 x 67.0 x 47.0 mm (4 x 2 5/8 x 1 7/8 in)
Mounting methods for the control device		Models in plastic container		according to the model, front installation on a plastic or metal panel (with elastic holding flaps) or installed from behind a glass or methacrylate panel (with biadhesive) customizing the keys on the front of the unit
		Open-frame models		To be installed from behind, with threaded studs and membrane keypad (not provided)
Degree of protection provided by the covering		Models in plastic container		IP65 (front), on condition the device is fitted to a metal panel with thickness 0.8 mm (1/32 in)
		Open-frame models		IP00
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)				
Pico-Blade connector			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 -5 to 55 °C (from 23 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. 6 VA insulated			115... 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 6 VA insulated in EVJ205 and EVJ215 with compressor relay rated 16 A res. @ 250 VAC	
Earthing methods for the control device			None	
Rated impulse-withstand voltage			2.5 KV	
Over-voltage category			II	
Software class and structure			A	
Clock			Incorporated secondary lithium battery (clock not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)	
Clock drift			≤ 60 s/month at 25 °C (77 °F)	
Clock battery autonomy in the absence of a power supply			> 24 h at 25 °C (77 °F)	
Clock battery charging time			24 h (the battery is charged by the power supply of the device)	
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)	
NTC probes	Resolution		0.1 °C (1 °F)	
	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)	
Digital inputs			1 dry contact (door switch)	
Dry contact		Contact type		5 VDC, 2 mA
		Power supply		None
		Protection		None
Other inputs		Input configurable for analogue input (auxiliary probe) or digital input (multi-purpose input)		
Digital outputs		5 (4 for EVJ204, EVJ214, EVJ214N7VXXRXV, EVJ224 and EVJ234, 3 for EVJ203 and EVJ213) with electro-mechanical relay		
Relay K1			SPST, 16 A res. @ 250 VAC	
			SPST, 30 A res. @ 250 VAC in EVJ27579??3???	
Relay K2			SPDT, 8 A res. @ 250 VAC	
Relay K3			SPST, 8 A res. @ 250 VAC	

EVCO S.p.A. EVJ 200 Instruction sheet ver. 4.0 Code 104J200I403 Page 4 of 4 PT 27/18	
Relay K4 (not available in EVJ203 and EVJ213)	SPST, 3 A res. @ 250 VAC
Relay K5 (not available in EVJ203, EVJ213, EVJ204, EVJ214, EVJ214N7VXXRXV, EVJ224 and EVJ234)	SPST, 3 A res. @ 250 VAC
The device guarantees double insulation between each digital output connector and the rest of the components of the device	
Type 1 or Type 2 Actions	Type 1
Additional features of Type 1 or Type 2 actions	C
Displays	Custom display, 3 digit, with function icons
Alarm buzzer	Incorporated
Incorporated sensors:	Bluetooth Low Energy (available in EVJ214N7VXXRXV, EVJ234 and EVJ235).
Communications ports	
1 TTL MODBUS slave port for EVconnect APP or BMS	1 port for SD card data-logger module EVBD05 (not available in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225)

For EVJ214N7VXXRXV, EVJ234 and EVJ235 According to European R&TTE Declaration of Conformity this device can be used in the following Countries: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Poland Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands and The United Kingdom.

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