EVJ 200





	limits. 9	See the section TECHNICAL SPECIFICATI	IONS.	overco	overcooling			r5 = 0 and defrost not	the setpoint becomes "setpoint -	
-	Disconr	nect the power supply before doing any t	type of maintenance.					active	r6", for the r7 duration	
_	Do not	use the device as safety device.		overheating				r5 = 1	the setpoint becomes "setpoint +	
_	For rep	airs and for further information, contact	the EVCO sales network.						r6", for the r7 duration	
3	FIRST-	5.2	Activa	ate/de	activa	te energy saving in manual	mode (if r5 = 0)			
1.	Install	following the instructions given in	the section MEASUREMENTS AND	Check t	Check that the keypad is not locked.					
	INSTAL	LATION.		1	1 1	IL CAN	1	Touch the DEEPOST koy		
2.	Power u	up the device and an internal test will be	run.	1.	11 0		1	Touch the DEI KOST Key.		
	The tes	t normally takes a few seconds, when it	is finished the display will switch off.	The set	point t	pecome	s "setp	oint + r4", at maximum for HE	2 duration.	
3.	Configu	ire the device as shown in the section Se	etting configuration parameters.							
	Recom	mended configuration parameters for firs	st-time use.	5.3	Activa	ate the	high	or low humidity functions (i	f F0 = 5)	
PAR.	DEF.	PARAMETER	MIN MAX.	Check that the keypad isn't locked.						
SP	0.0	setpoint	r1 r2				1	Touch the DOWN key for 1s		
P0	1	probe type	0 = PTC 1 = NTC			~				
P2	0	temperature unit of measurement	0 = °C 1 = °F	2.	Ý		• •	Touch the UP or DOWN key w	ithin 15s to select the label "rH".	
d1	0	defrost type	0 = electric $1 = hot gas$			· ·		Touch the CET key far la until the dianaxy chows the right label		
			2 = compressor stopped	2			1	for the function (only tou	the display shows the right label	
				э.	=	961	I	activated)	the key to see the function	
	Then	check that the remaining settings	are appropriate; see the section		LAR	DEC	יודמומי			
	CONFIG	GURATION PARAMETERS.			LAD.	DESC	SKIPTI			
4.	Disconr	nect the device from the mains.			rnL	low r	numiai	ty function (evaporator fan wi	in F17 and F18 if the compressor is	
5.	Make t	he electrical connection as shown in	the section ELECTRICAL CONNECTION		<b></b>	οπ, α	on ir th	e compressor is on)	<u></u>	
	without	powering up the device.			rhH	high	humid	ity function (evaporator fan on	)	
6.	For the	e connection in an RS-485 network	connect the interface EVIF22TSX or	4.		(1)		Touch the ON/STAND-BY key	(or do not operate for 60s) to exit	
	EVIF23	TSX, to activate real time functions in	EVJ203, EVJ204, EVJ205, EVJ224 and		11	$\bigcirc$		the procedure.		
	EVJ225	connect the module EVIF23TSX, for rec	cording HACCP data in CSV format on SD							
	card co	onnect the module EVBD05, to use the	device with the Android APP EVconnect	5.4	view,	delete	HAC	CP alarm information (no	it available in EVJ203, EVJ204,	
	connect	t the interface EVIF25TBX (or use EVJ2	214N7VXXRXV, EVJ234 or EVJ235); see	~	EVJ20	J5, EVJ	224 a	nd EVJ225)		
	the re	levant instruction sheets. If EVIF2	2TSX or EVIF23TSX is used, set	Check	that the	е кеура	ia isn't	юскеа.		
	param	eter bLE to 0.		1.		$\bigvee$	1	Touch the DOWN key for 1s.		
7.	Power u	up the device.		I	11	•	1	I		

FUNCTION

CONDITION

CONSEQUENCE

EVCO S.p.A. | EVJ 200 | Instruction sheet ver. 2.0 | Code 104J200I203 | Page 2 of 4 | PT 18/17 Touch the UP or DOWN key within 15s to select a label. 2. ٢ LAB. DESCRIPTION view HACCP alarm information LS rLS delete HACCP alarm information 3. ≙ SET Touch the SET key Touch the UP or DOWN key to select an alarm code (to select 4. Ý 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) power failure alarm (available in EVJ213, EVJ214, EVJ214N7VXXRXV, EVJ215, PF EVJ234 and EVJ235 or in EVJ203, EVJ204, EVJ205, EVJ224 and EVJ225 with nterface EVIF25TBX connected) **≙** SET 5. Touch the SET key. Touch the ON/STAND-BY key (or do not operate for 60s) to exit (6. 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 View/delete compressor functioning hours 5.5 Check that the keypad isn't locked.  $\vee$ Touch the DOWN key for 1s. 1. 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. **≙** SET Touch the SET key. 4. Touch the UP or DOWN key to set "149" (to select rCH). ٢ Touch the SET key. 5. **≙** SET Touch the ON/STAND-BY key (or do not operate for 60s) to exit 6.  $\bigcirc$ 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.  $\vee$ <u>^ 8-</u> 2. Touch the UP or DOWN key within 15s to select a label. ٢ LAB. DESCRIPTION cabinet temperature (if P4 = 0, 1 or 2) Pb1 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. ≙ SET Touch the SET key. Touch the ON/STAND-BY key (or do not operate for 60s) to exit (the procedure. 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 1... 30 min node Sd1 SD card writing interval in service 1... 30 min mode Sd2 60 service mode duration 1... 240 min Sd3 0 enable critical temperature recording 0 = no1 = yesSd4 1 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

## 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) 2015the file was written in 201503the file was written in March26the 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 -----the file was written in March 2015 m03 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 View data-logger module alarms 6.6 Check that the keypad isn't locked. Touch the DOWN key for 1s. 1. $\vee$ 2. Touch the UP or DOWN key within 15s to select the label "Err". 3. **a** set Touch the SET key Touch the UP or DOWN key within 15s to see the alarm code 4. LAB. DESCRIPTION FUL no space left on SD card alarm Sd SD card not inserted or not recognised alarm Touch the ON/STAND-BY key (or do not operate for 60s) to exit 5. $\bigcirc$ the procedure. 7 SETTINGS Setting configuration parameters 7.1 Touch the SET key for 4s: the display will show the label "PA". 1. **≙** SET 2. **≙** SET Touch the SET key Touch the UP or DOWN key within 15s to set the PAS value 3. (default "-19"). Touch the SET key (or do not operate for 15s): the display will 4. **≙** SET show the label "SP" 5. Touch the UP or DOWN key to select a parameter 6. **a** set Touch the SET key 7. Touch the UP or DOWN key within 15s to set the value 8. **≙** Set Touch the SET key (or do not operate for 15s). Touch the SET key for 4s (or do not operate for 60s) to exit the 9. **≙** SET Set the date, time and day of the week (available in EVJ213, EVJ214, 7.2 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 Ö<sub>o</sub> from the mains within two minutes since the setting of the time and day of the week If the device communicates with the APP EV connect, the date, time and day of the week will automatically be set by the smartphone or tablet Check that the keypad isn't locked $\vee$ 1. Touch the DOWN key for 1s. 2. Touch the UP or DOWN key within 15s to select the label "rtc". Touch the SET key: the display will show the label $``{\bm y}''$ followed 3. **≙** SET 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) day (01... 31) d h time (00... 23) n minutes (00... 59) Touch the SET key: the display will show the label for the day of **≙** SET 6. the week Touch the UP or DOWN key within 15s to set the day of the 7. week LAB. DESCRIPTION Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday Sun Sunday **≙** SET 8. Touch the SET key: the device will exit the procedure. 9 $\bigcirc$ Touch the ON/STAND-BY key to exit the procedure beforehand. 7.3 Reset the factory settings

6.5

File names

	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	$0 = ^{\circ}C$ $1 = ^{\circ}F$
		. –	-	measurement	
	8	P3	1	evaporator probe function	0 = disabled
	Ŭ		-		1 = defrost + fan
					2 = fan
	9	P4	0	configurable input function	0 = digital input
				(ontion 4 only available in	1 = condenser probe
				EV1224. EV1225. EV1234 and	2 = critical temperature probe
				EVJ235)	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	0 100 %
				product temperature (CPT)	$CPT = \{[(P7 x (inlet air T)] +$
					[(100 - P7) x (outlet air T)] :
					100}
	12	P8	5	display refresh time	0 250 s : 10
	Ν.	PAR.	DEF.	REGULATION	MIN MAX.
	13	r0	2.0	setpoint differential	1 15 °C/°F
					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
K	17	r4	0.0	setpoint offset in energy saving	0 99 °C/°F
	18	r5	0	cooling or heating operation	0 = cooling
		-		g g eperation	1 = heating
	19	r6	0.0	setpoint offset in	0 99 °C/°F
		-		overcooling/overheating	-,
	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	CO	0	compressor on delay after	0 240 min
		20		power-on	= .=
	23	C1	5	delay between 2 compressor	0 240 min
	25	CI		switch-one	0 240 mm
	24	C2	3	compressor off minimum time	0 240 min
	27	C2	0	compressor on minimum time	0. 240 c
	25	C3	10	compressor off time during	0240 S
	20	C4	10	cabinot probe alarm	0 240 11111
	27	C5	10	comprossor on time during	0 240 min
	2/	CS	10	compressor on time during	0 240 11111
	20	<i>CC</i>		cabinet probe alarm	0 100 00/05
	28	Co	80.0	unreshold for high condensation	differential = 2 °C/4 °F
		67		warning	
	29	C7	90.0	threshold for high condensation	0 199 °C/°F
~	20	60			0 15 min
0	30	610	1	nigh condensation alarm delay	0 15 min
	31	C10	0	compressor nours for service	0 999 h X 100
	22	C11	10	comproseer 2 on delay	
	32	C11	10	compressor 2 on delay	0240 \$
	33	CIZ	2	compressor nours weight for	
				Dalancing nours and switch-ons	BHC = $\{[CI2 \times (compressor bours)]\}$
				EV1224 EV1225 EV1224 and	(comprossor switch-ons)]
				EV1235)	(compressor switch=u(IS)]}
	24	C12	1	compressor bours switch and for	0 10
	, <sup>,</sup>	C13	· *	halancing hours and switch-one	BHC = $\{[C12 \times (comprosecond)]$
				(BHC) - (only available in	hours)] + $[C13 \vee$
				EV1224. FV1225 EV1234 and	(compressor switch-ope)11
				EVJ235)	(compressor switch=015)]}
	35	C14	1	tie between compressors (only	$0 = \operatorname{according} to C11$
		C14	1	available in FV/1224 FV/1225	1 = according to crr 1 = according to r0
				EV1234 and EV1235)	
	N	PAR	DEE	DEFROST (if $r_5 = 0$ )	MIN MAX.
	36	d0	8	automatic defrost interval	0 99 h
	]		Ŭ		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	-99 99 °C/°F
				automatic defrost interval	
	1			counting	
<b>.</b>					
-	46	d11	0	enable defrost timeout alarm	0 = no $1 = yes$
	46 47	d11 d15	0	enable defrost timeout alarm compressor on consecutive time	0 = no 1 = yes 0 99 min
	46 47	d11 d15	0	enable defrost timeout alarm compressor on consecutive time for hot gas defrost	0 = no 1 = yes 0 99 min
	46 47 48	d11 d15 d16	0 0 0	enable defrost timeout alarm compressor on consecutive time for hot gas defrost pre-dripping time for hot gas	0 = no 1 = yes 0 99 min 0 99 min

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

## 6.3 Writing in service mode

power supply restored

Writing in service mode must be manually activated. Information written in service mode.

energy saving activated/deactivated alarm activated/restored

- 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.	$\sim$	Touch the DOWN key for 1s.
2.	<u>را ۱۹ (۱</u>	Touch the UP or DOWN key within 15s to select the label "SEr".
3.	≙ SET	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.

Ф <sub>о</sub>	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.	1 4	SET		Touch the SET key.				
3.	ŕ	$\sim$	•	Touch the UP or DOWN key within	15s to set " <b>149</b> ".			
4.	1 :	SET		Touch the SET key (or do not op show the label " <b>dEF</b> ".	erate for 15s): the display will			
5.	1 4	SET		Touch the SET key.				
6.	ŕ	$\sim$	l I	Touch the UP or DOWN key within 15s to set " $1$ ".				
7.	14	SET		Touch the SET key (or do not operate for 15s).				
8.	Inte	rrupt th	e powe	r supply to the device.				
9.	•	SET		Touch the SET key for 2s before beforehand.	action 6 to exit the procedure			
8	CON	FIGUR	TION	PARAMETERS				
ດ≡	Ν.	PAR.	DEF.	SETPOINT	MIN MAX.			
<u> </u>	1	SP	0.0	setpoint	r1 r2			
	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.			
$\sim$	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F			
U,					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			

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 + evapora- tor 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	099 h 0 = only manual if d25 = 1
Ν.	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

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 59
 A4
 0.0
 threshold for high temperature
 -99... 99 °C/°F

	55			alarm	
	60	A5	0	high temperature alarm type	0 = regulation temperature
					2 = auxiliary temperature
	61	A6	120	high temperature alarm delay after power-on	0 240 min
	62	A7	15	high/low temperature alarms	0 240 min
	63	A8	15	high temperature alarm delay	0 240 min
	64	49	15	after defrost	0 240 min
	04		15	after door closing	0 240 mm
	65	A10	10	power failure duration for alarm recording (not available in	0 240 min
				EVJ203, EVJ204, EVJ205, EVJ224	
	66	A11	2.0	and EVJ225) high/low temperature alarms	1 15 °C/°F
	67	A12	1	reset differential	
	07	<i>//12</i>	-	type (not available in EVJ203,	1 = HACCP LED + PF label +
				EVJ204, EVJ205, EVJ224 and EVJ225)	2 = HACCP LED + PF label +
	N	DAD	DEE	FANS	buzzer (if duration > A10)
	68	F0	1	evaporator fan mode during	$0 = off \qquad 1 = on$
				normal operation	2 = on if compressor on 3 = thermoregulated (with
					regulation temperature
					4 = thermoregulated (with
					regulation temperature + F1) if compressor on
					5 =  according to F6
					7 = thermoregulated (with 1)
	69	F1	-4.0	threshold for evaporator fan	F1) if compressor on -99 99 °C/°F
	70	- 52		operation	0
	70	FZ	Ů	defrost and dripping	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	0 240 s x 10
	73	F5	30	evaporator fan on time during	0 240 s x 10
	74	F6	0	energy saving high/low humidity operation	if F0 $\neq$ 5 0 = low humidity (with F17
S					and F18 if compressor
					off, on if compressor on) 1 = high humifity (on)
	75	F7	5.0	threshold for evaporator fan on	-99 99 °C/°F
				setpoint)	
	76	F8	2.0	threshold for evaporator fan operation differential	1 15 °C/°F
	77	F9	10	evaporator fan off delay after	0 240 s
	78	F10	1	condenser fan mode	0 = thermoregulated (with F11)
					1 = thermoregulated (with F11) if compressor off,
					on if comproseer on
					2 = thermoregulated (with
					2 = thermoregulated (with F11) if compressor off,
					2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre-
	79	F11	15.0	threshold for condenser fan on	<ul> <li>a thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>a ge er/ge</li> </ul>
	79	F11	15.0	threshold for condenser fan on	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F
	79 80	F11 F12	15.0 30	threshold for condenser fan on condenser fan off delay after compressor off	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 099 °C/°F differential = 2 °C/4 °F 0240 s if P4 ≠ 1
	79 80 81	F11 F12 F17	15.0 30 60	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidit	<ul> <li>a thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s if P4 ≠ 1</li> <li>0 240 s</li> </ul>
	79 80 81 82	F11 F12 F17 F18	15.0 30 60 10	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low	<ul> <li>a thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre-dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>0 240 s</li> </ul>
	79 80 81 82 N.	F11 F12 F17 F18 PAR.	15.0 30 60 10 DEF.	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 0 240 s
	79 80 81 82 N. 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function	<ul> <li>a thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre-dripping and dripping</li> <li>a 90 °C/°F</li> <li>b 90 °C/°F</li> <li>c 400 s</li> <li>c 240 s</li> <lic 240="" li="" s<=""> <li>c 240 s</li> <li style="text-align: right;">c 240 s</li> </lic></ul>
	79 80 81 82 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 0 240 s 0 240 s MIN MAX. 0 = disabled 1 = compressor + evaporator fan off
	79 80 81 82 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 0 240 s 0 240 s 0 240 s MIN MAX. 0 = disabled 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on
	79 80 81 82 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 0 240 s 0 240 s MIN MAX. 0 = disabled 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 4 = compressor + evaporator fan off
	79 80 81 82 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 0 = disabled 1 = compressor + evaporator fan off 3 = cabinet light on 4 = compressor + evaporator fan off, cabinet light on
	79 80 81 82 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>0 240 s</li> <li>0 240 s</li> <li>0 240 s</li> <li>MIN MAX.</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off, cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> </ul>
	79 80 81 82 83 83	F11 F12 F17 F18 PAR. i0	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 0 240 s 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 5 = evaporator fan off + cabinet light on 0 = with contact closed 1 = compressor + evaporator fan off + cabinet light on 0 = with contact closed
	79 80 81 82 83 83 83	F11 F12 F17 F18 PAR. i0 i1	15.0 30 60 10 DEF. 5	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact open</li> <li>1 120 min</li> </ul>
	79 80 81 82 83 83 83 83 84 85	F11 F12 F17 F18 PAR. i0 i1 i1 i2 i3	15.0 30 60 10 DEF. 5 5 0 30 30	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>1 240 s</li> <li>0 240 s</li> <li>1 240 s</li> <li>0 240 s</li> <li>1 240 s</li> <li>0 240 s</li> <li>1 6 120 min</li> <li>-1 120 min</li> </ul>
	79 80 81 82 83 83 83 83 84 85 86	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4	15.0 30 60 10 DEF. 5 7 0 30 15	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 240 s MIN MAX. 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 0 = with contact closed 1 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = until the closing 0 = with contact
	79 80 81 82 83 83 83 83 83 84 85 86 87	F11 F12 F17 F18 PAR. i0 i1 i1 i2 i3 i4	15.0 30 60 10 DEF. 5 30 30 15 0	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact open</li> <li>-1 120 min</li> <li>-1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> </ul>
	79 80 81 82 83 83 84 85 85 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 7 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>1 0 240 s</li> <li>2 240 s</li> <li>0 240 s</li> <li>1 10 s</li> <li>1 0 0 0 0 0 0 0</li></ul>
	79 80 81 82 83 83 84 85 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = i6 alarm</li> <li>2 = closemed</li> </ul>
	79 80 81 82 83 83 83 83 86 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 0 = disabled 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 5 = evaporator fan off + cabinet light on 5 = evaporator fan off + cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 0 = disabled 1 = energy saving 2 = iA alarm 3 = i5d alarm 4 = button-operated load 1 on
	79 80 81 82 83 83 83 83 84 85 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 ≠ 1 0 240 s 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 0 = with contact closed 1 = with contact c
	79 80 81 82 83 83 83 83 84 85 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s MIN MAX. 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 0 = with contact closed 1 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 0 = disabled 1 = energy saving 2 = iA alarm 3 = iSG alarm 4 = button-operated load 1 on 5 = button-operated load 2 on 6 = device on/off 7 = LP alarm
	79 80 81 82 83 83 84 85 86 87 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5	15.0 30 60 10 DEF. 5 7 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 240 s MIN MAX. 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 0 = with contact closed 1 = with contact closed 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
	79 80 81 82 83 83 83 83 84 85 86 87 88 88	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5	15.0 30 60 10 DEF. 5 30 30 15 0 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = Cit alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = button-operated load 1 on</li> <li>5 = button-operated load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = with contact closed</li> <li>3 = ibt alarm</li> <li>4 = C1t alarm</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> </ul>
چ چ	79 80 81 82 83 83 83 84 85 86 87 88 88 88 89 90	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7	15.0 30 60 10 DEF. 5 30 30 15 0 8 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input activation	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s MIN MAX. 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 0 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 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 9 = C2t alarm 0 = with contact closed 1 = with contact closed 1 = with contact closed 1 = button-operated load 2 on 6 = device on/off 7 = LP alarm 9 = C2t alarm 0 = with contact closed 1 = with contact closed
	79 80 81 82 83 83 84 85 86 87 88 87 88 88 89 90	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7	15.0 30 60 10 DEF. 5 30 30 30 30 30 30 30 30 30 30 30 30 30	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input activation	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = button-operated load 1 on</li> <li>5 = button-operated load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = until the closing</li> <li>0 = disabled</li> <li>1 = nergy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = button-operated load 1 on</li> <li>5 = button-operated load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> </ul>
	79 80 81 82 83 83 83 83 83 88 88 88 88 88 89 90	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7 i8	15.0 30 60 10 DEF. 5 30 30 15 0 8 8	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input activation multi-purpose input alarm delay	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 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 5 = evaporator fan off + cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 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 0 = with contact closed 1 = w
	79 80 81 82 83 83 84 85 86 87 88 87 88 88 89 90 91	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i3 i4 i5 i5 i6 i6 i7 i8 i8	15.0 30 60 10 DEF. 5 30 30 30 30 30 30 30 30 30 30 30 30 30	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input activation multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input alarm reset counter time for high	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 0 = disabled 1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 4 = compressor + evaporator fan off 5 = evaporator fan off + cabinet light on 5 = evaporator fan off + cabinet light on 1 = with contact closed 1 = with contact closed 1 = with contact closed 1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 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 0 = with contact closed 1 = with contact closed
	79 80 81 82 83 83 83 83 83 85 86 87 88 87 88 87 88 89 90 91 91	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7 i8 i9 i9	15.0 30 60 10 DEF. 5 30 30 15 0 30 15 0 8 8 30 30 15 0 30 30 15 0 30 30 30 30 30 30 30 30 30 30 30 30 3	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input activation multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input activations for high pressure alarm reset counter time for high pressure alarm	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = Cut alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = button-operatel load 1 on</li> <li>5 = button-operatel load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = wi</li></ul>
	79 80 81 82 83 83 83 86 86 87 88 88 88 89 90 91 91	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7 i8 i8 i9 i10	15.0 30 60 10 DEF. 5 30 30 15 0 30 30 30 30 30 30 30 30 30 30 30 30 3	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input function multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input activations for high pressure alarm reset counter time for high pressure alarm door closed consecutive time for energy saving	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s 0 240 s 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 0 = with contact closed 1 = with contact closed 1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 0 = disabled 1 = energy saving 2 = iA alarm 3 = iSd alarm 4 = button-operatel load 1 on 5 = button-operatel load 2 on 6 = device on/off 7 = LP alarm 8 = C1t alarm 9 = C2t alarm 0 = with contact closed 1 = with contact clos
	79 80 81 82 83 83 83 83 83 85 86 87 88 88 87 88 88 90 90 91 91 92 93	F11 F12 F17 F18 PAR. i0 i1 i1 i2 i3 i4 i5 i5 i6 i7 i8 i9 i10	15.0 30 60 10 DEF. 5 30 30 15 0 30 15 0 8 8 30 30 15 0 30 30 15 0 30 30 15 0 30 30 240 0	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input function multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input activations for high pressure alarm reset counter time for high pressure alarm door closed consecutive time for energy saving	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>0 = disabled</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>6 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = button-operated load 1 on</li> <li>5 = button-operated load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = 0 = with contact closed</li> <li>1 = 0 = with contact closed</li> <li>1 = 0 = with contact closed</li> <li>1 = 0 = with contact closed</li> <li>1 = with contact closed</li> <li>2 = with contact closed</li> <li>3 = 0 = with contact closed</li> <li>3 = 0 = with contact closed</li> <li>4 = with contact closed</li> <li>2 = with contact closed</li> <li>3 = 0 = with con</li></ul>
	79 80 81 82 83 83 83 83 83 86 87 88 88 87 88 88 87 88 87 90 91 91 91 91 91	F11 F12 F17 F18 PAR. i0 i1 i2 i3 i4 i5 i5 i6 i7 i7 i8 i9 i10 i13	15.0 30 60 10 DEF. 5 30 15 0 30 15 0 30 15 0 30 30 15 0 0 30 240 0 0	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input function open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input function multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input activations for high pressure alarm reset counter time for high pressure alarm door closed consecutive time for energy saving	2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping 0 99 °C/°F differential = 2 °C/4 °F 0 240 s if P4 $\neq$ 1 0 240 s MIN MAX. 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 0 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until the closing 0 = no 1 = yes if i2 $\neq$ -1 and after i2 0 = disabled 1 = energy saving 2 = iA alarm 3 = iSG 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 0 = with contact closed 1 = 0 = disabled if i5 = 3 (-) - 99 min after regulation temperature < SP 0 = di
	79 80 81 82 83 83 83 83 85 86 87 88 87 88 87 88 89 90 91 92 92 93 92	F11 F12 F17 F18 PAR. i0 i1 i1 i2 i3 i4 i5 i5 i6 i7 i6 i7 i8 i8 i9 i10 i13 i14	15.0 30 60 10 DEF. 5 30 30 30 30 30 30 30 30 30 30 30 30 30	threshold for condenser fan on condenser fan off delay after compressor off evaporator fan off time with low humidity evaporator fan on time with low humidity DIGITAL INPUTS door switch input function door switch input activation open door alarm delay regulation inhibition maximum time with door open enable open door alarm recording multi-purpose input function multi-purpose input function multi-purpose input activation multi-purpose input alarm delay number of multi-purpose input activations for high pressure alarm door closed consecutive time for energy saving number of door openings for defrost	<ul> <li>2 = thermoregulated (with F11) if compressor off, on if compressor on, off during defrost, pre- dripping and dripping</li> <li>0 99 °C/°F</li> <li>differential = 2 °C/4 °F</li> <li>0 240 s</li> <li>if P4 ≠ 1</li> <li>0 240 s</li> <li>1 = compressor + evaporator fan off</li> <li>2 = evaporator fan off</li> <li>3 = cabinet light on</li> <li>4 = compressor + evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>5 = evaporator fan off + cabinet light on</li> <li>0 = with contact closed</li> <li>1 = with contact closed</li> <li>1 = until the closing</li> <li>0 = no 1 = yes if i2 ≠ -1 and after i2</li> <li>0 = disabled</li> <li>1 = energy saving</li> <li>2 = iA alarm</li> <li>3 = iSd alarm</li> <li>4 = button-operated load 1 on</li> <li>5 = button-operated load 2 on</li> <li>6 = device on/off</li> <li>7 = LP alarm</li> <li>8 = C1t alarm</li> <li>9 = C2t alarm</li> <li>0 = with contact closed</li> <li>1 = w</li></ul>

	Ν.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.
	96	u1c	0	relay K1 configuration (options	0 = first compressor
				14 and 15 only available in	1 = second compressor
				EVJ234 and EVJ235)	2 = evaporator fan 3 = condenser fan
					4 = defrost
					5 = cabinet light
					6 = demisting
					7 = door heaters
					9 = dripping heater
					10= button-operated load 1
					11= button-operated load 2
					12= alarm
					13= on/stand-by
					15= defrost 2
	97	u2c	4	relay K2 configuration (options	0 = first compressor
				14 and 15 only available in	1 = second compressor
				EVJ234 and EVJ235)	2 = evaporator fan
					3 = condenser fan
					5 = cabinet light
					6 = demisting
					7 = door heaters
					8 = heater for neutral zone
					9 = dripping neater 10= button-operated load 1
					11= button-operated load 2
					12= alarm
					13= on/stand-by
					14= evaporator fan 2
	98	u3c	5	relay K3 configuration (ontions	15 = defrost 2 0 = first compressor
	50	use		14 and 15 only available in	1 = second compressor
				EVJ234 and EVJ235)	2 = evaporator fan
					3 = condenser fan
					4 = defrost
					5 = cabinet light
					7 = door heaters
					8 = heater for neutral zone
					9 = dripping heater
					10= button-operated load 1
					11= button-operated load 2
X					12= alarm
/ 🔊					14= evaporator fan 2
	LI				15= defrost 2
	99	u4c	2	relay K4 configuration (not	0 = first compressor
				available in EVJ203 and EVJ213,	1 = second compressor
				options 14 and 15 only available	2 = evaporator fan
				in EVJ234 and EVJ235)	3 = condenser fan 4 = dofrost
					5 = cabinet light
					6 = demisting
					7 = door heaters
					8 = heater for neutral zone
					9 = dripping neater 10= button-operated load 1
					11= button-operated load 2
					12= alarm
					13= on/stand-by
					14= evaporator fan 2
	100	u5c	3	relav K5 configuration (not	0 = first compressor
			-	available in EVJ203, EVJ213,	1 = second compressor
				EVJ204, EVJ214,	2 = evaporator fan
				EVJ214N7VXXRXV, EVJ224 and	3 = condenser fan
				EVJ234, options 14 and 15 only	4 = defrost
					6 = demisting
					7 = door heaters
					8 = heater for neutral zone
					9 = dripping heater
					10= button-operated load 1
					12= alarm
					13= on/stand-by
					14= evaporator fan 2
	101		•	anable askingt light and button	15= defrost 2
	101	u2	U	operated load in stand-by	0 = no 1 = yes
	102	u4	1	enable alarm output off silencing	0 = no $1 = yes$
		-		the buzzer	
	103	u5	-1.0	threshold for door heaters on	-99 99 °C/°F
	10.0		<u> </u>	domisting on duration	differential = 2 °C/4 °F
	104	ub 117	-5 0	neutral zone threshold for	1 1∠U IIIII -99 99 °C/°F
			5.0	heating (relative to setpoint)	differential = 2 °C/4 °F
					setpoint + u7
	106	u9	1	enable alarm buzzer	0 = no 1 = yes
$\sim$	N.	PAR.	DEF.	REAL TIME CLOCK	MIN MAX.
Э	10/	ΠΓU	1	EVJ203, EVJ204. EVJ205. EVJ224	u – nu – t = yes
				and EVJ225)	
<b>&gt;</b> 0	Ν.	PAR.	DEF.	ENERGY SAVING (if r5 = 0)	MIN MAX.
Ŵ	108	HE2	0	energy saving maximum duration	0 999 min
	N	PAP	DEE	REAL TIME ENERGY SAVING (	-1 = until the door opening MIN MAX
Δ			561.	r5 = 0	
*	109	H01	0	energy saving time	0 23 h
	110	H02	0	energy saving maximum duration	0 24 h
	Ν.	PAR.	DEF.	REAL TIME DEFROST (if d8 = 4)	MIN MAX.
	111	на1 нар	n-	2nd daily defrost time	h-= disabled
<del>گ</del>	112	Hd3	h-	3rd daily defrost time	h- = disabled
1	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
_	Ν.	PAR.	DEF.	DATA-LOGGING (not available in	MIN MAX.
				EVJ203, EVJ204, EVJ205, EVJ224	
	117	SHO	30	SD card writing interval in HACCD	1 30 min
	**'	540	33	mode	
	118	Sd1	1	SD card writing interval in	1 30 min
	$\square$		L	service mode	
	119	Sd2	60	service mode duration	1 240 min
	120	Sd3	0	enable critical temperature	u = no 1 = yes
	121	Sd4	1	enable cabinet temperature	0 = no 1 = ves
				recording	
	122	Sd5	1	decimal separator type	0 = comma 1 = point
	Ν.	PAR.	DEF.	SAFETIES	MIN MAX.
	123	POF	1	enable ON/STAND-BY key	U = no 1 = yes
	124	LOC	1	the models with open-frame user	0 = 110 1 = yes
	LI	L		interface)	
$\heartsuit$	125	Sen	90	sensitivity capacitive keyboard	60 120
	17221				
	125			(available in the models installed	60= very sensitive
	125	DAG		(available in the models installed from behind)	60= very sensitive
	123 126	PAS	-19	(available in the models installed from behind) password level 1 password	60= very sensitive -99 999 -99 999

	128	PA2	824	level 2 pa	assword			-99 999		
	N. 129	PAR. rE0	DEF. 60	DATA-LO	GGING EV ger sampli	/LINK	rval	MIN MAX. 0 240 min		
	130 rE1 4 recorded ten			temperat	ure		0 = none 1 = cabinet			
100							2 = evaporator 3 = auxiliary			
								4 = cabinet and evaporator		
	Ν.	PAR.	DEF.	MODBUS				MIN MAX.		
	131	LA	247	MODBUS	address			1 247		
Id	132 Lb 2 MODBUS baud				Daud rate	e		1 = 4,800 baud		
Iu								2 = 9,600 baud		
	133	LP	2	parity				0 = none  1 = odd		
	N	DAD	DEE	BULIETOC	ТН			2 = even		
∦	134	bLE	1	enable B	luetooth			0 = no $1 = yes$		
9	ALAR	MS								
COD					DECET			DECT		
Pr1	cabir	net prol	be alarm	1	automat	ic	- check	KPO		
Pr2	evap	orator	probe al	arm	automat	ic	- check	c probe integrity		
Pr3 rtc	clock	ary pro	obe alar	m	automat manual	IC	- check set date	e, time and day of the week		
AL	low t	empera	ature ala	arm	automat	ic	check A	0, A1 and A2		
AH id	open	door a	rature a Ilarm	larm	automat	ic ic	check A	4 and A5 ) and i1		
PF	powe	er failur	e alarm		manual		- touch	a key		
сон	high	conder	nsation v	varning	automat	ic	check C	6		
CSd	high	conder	nsation a	alarm	manual		- switc	h the device off and on		
iA	mult	i-purpo	se input	alarm	automat	ic	check i5	5 and i6		
iSd	high	pressu	re alarm	1	manual		- switc	h the device off and on		
LP	low p	oressur	e alarm		automat	ic	check is	and i6		
C1+	com	Dressor	therm	al switch	automat	ic	check is	and i6		
	alarr	n			Jaconial	-				
C2t	seco swite	nd con ch alarr	npressor n	thermal	automat	ic	check i	and i6		
dFd	defro	ost time	eout alar	m	manual		- touch	na key		
FUL	SD c	ard full	alarm		manual		- check free ut	c a2, d3 and d11 o space on the SD card or		
64	Nic C	D. co 1	incort -	1 212	manuel		replace	it		
<b>3</b> 0	א סאין S	card ب	inserted	aiarin	Imanual		i insert ti	Caru or replace it		
10	TECH	NICAL	SPECI	FICATIO	NS					
Purpos	se of t	he cont	rol devi	ce		Functi	on contro	oller		
Constr Contai	uction ner	of the	control	device Mode	ls in plast	Built-i ic conta	n electro ainer	nic device Black, self-extinguishing		
				Open	-frame m	odels		Open-frame board		
Catego Measu	ory of remer	heat ar nts	nd fire re	esistance Mode	ls in plast	D ic conta	ainer	111.4 x 76.4 x 48.0 mm		
				_				(4 3/8 x 3 x 1 15/16 in)		
				Open	n-frame models			(4 x 2 5/8 x 1 7/8 in)		
Mount	ing n	nethod	s for t	he Mode	els in plastic container			according to the model, front		
contro	i uevic	.e						metal panel (with elastic		
								holding flaps) or installed		
								methacrylate panel (with		
								biadhesive) customizing the		
				Open	I-frame models			To be installed from behind,		
								with threaded studs and membrane keypad (not		
								provided)		
Jegree provid	e ed by	of the cov	protecti /ering	on   Mode	lels in plastic container			ואס (rront), on condition the device is fitted to a metal		
								panel with thickness 0.8 mm (1/32 in)		
				Open	-frame m	odels		IP00		
Conne Fixed	ction i screw	nethod termin	al block	s for wire	es up to 2	2.5 mm	<sup>2</sup> (remov	able screw terminal blocks for		
wires u	up to 2	2,5 mm	12 by rec	luest)		M:-	MaT-1	pagetor		
Maxim	um pe	ermitte	d length	for conne	ction cabl	es				
Power	suppl	y: 10 m	ו (32.8 f	t)		Analogue inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft)				
Operat	ting te	mperal	ture			Digital outputs: 10 m (32.8 ft)           From -5 to 55 °C (from 23 to 131 °F)				
Storag	le tem	peratu	re			From -25 to 70 °C (from -13 to 158 °F) Relative humidity without condensate fro				
operat	nig hi	anidity				Relative humidity without condensate from 10 to 90%				
Pollutio	on sta	tus of t	he contr	ol device		2				
RoHS	2011/	65/CE		WEE	2012/19	/EU		REACH (EC) Regulation		
EMC 2	014/3	0/UF				LVD ?	014/35/	1907/2006 JE		
Power	suppl	y	1 5 0 ( )	0/60.55	(12.11.1		220			
∠30 V/ max. 6	ас (+ 5 VA ir	10% - Isulate	10%), 5	00/60 Hz	(≖3 Hz),	115 Hz), 1	∠30 VAC max. 6	VA insulated in EVJ205 and		
						EVJ21	5 with co	mpressor relay rated 16 A res.		
Earthir	ng me	thods f	or the co	ontrol dev	ice	None				
Rated	impul:	se-with	stand vo	oltage		2.5 KV				
Softwa	are cla	ss and	structur	e		A				
Clock						Incorporated secondary lithium battery (clock not available in EV1203 EV1204 EV1205				
0	4.15					EVJ22	4 and EV	J225)		
Clock (	urift batter	y auto	nomy in	the abse	ence of a	≤ 60 s > 24 l	n at 25 °	at 25 °C (77 °F) C (77 °F)		
Clock battery autonomy in the absence of power supply						24 h (the battery is charged by the power				
Clock battery charging time						24 h (the battery is charged by the power supply of the device)				
Analog	jue inp	outs				2 for PTC or NTC probes (cabinet probe and evaporator probe)				
PTC probes Sensor type						Evaporator probe;           KTY 81-121 (990 Ω @ 25 °C, 77 °F)           Errom -50 to 150 °C (form -50 to 250 °C)				
		Res	sureme	ent field		From -50 to 150 °C (from -58 to 302 °F) 0.1 °C (1 °F)				
NTC pr	robes	Ser	isor type	e ent fint t		ß3435	(10 K s	2 @ 25 °C, 77 °F)		
		Res	sureme solution	ent field		⊢rom 0.1 °C	-40 to 10 C (1 °F)	ت		
Digital	input	s			act to a state	1 dry	contact (	door switch)		
Dry co	ntact			Conta Powe	act type r supply			S VDC, 2 mA		
0+-	ine :			Prote	ction	able 1	ارسم س	None		
Uner	inputs			digita	i contigur al input (m	avie fo nulti-pu	n analog rpose inp	ue input (auxiliary probe) or ut)		
Digital	outpu	ıts		5 (4 EV12	for EVJ2 34, 3 for	204, EV EVJ207	/J214, E 3 and EV	VJ214N7VXXRXV, EVJ224 and (J213) with electro-mechanical		
Det	1/1			relay	,		10.5			
кејау	K1					SPST, SPST,	10 A res 30 A res	. @ 250 VAC in		
Relay	K2					EVJ2?	5?9??3?? 8 A rec	? @ 250 VAC		
Relay K2						EVJ2?5?9??3??? SPDT, 8 A res. @ 250 VAC				

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Relay K3	SPST, 8 A res. @ 250 VAC
Relay K4 (not available in EVJ203 and	SPST, 5 A res. @ 250 VAC
EVJ213)	
Relay K5 (not available in EVJ203, EVJ213,	SPST, 5 A res. @ 250 VAC
EVJ204, EVJ214, EVJ214N7VXXRXV, EVJ224	
and EVJ234)	
The device guarantees double insulation betw	een each digital output connector and the rest
of the components of the device	
Type 1 or Type 2 Actions	Type 1
Additional features of Type 1 or Type 2	С
actions	
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	1 port for SD card data-logger module
or BMS	EVBD05 (not available in EVJ203, EVJ204,

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.



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

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