Basic and split version temperature-humidity controller







CONSIDER THE ENVIRONMENT

power supply 115... 230 VAC

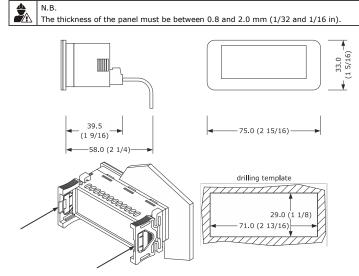
- cabinet temperature probe (PTC/NTC/EVHTP500/EVHTP520) and cabinet humidity probe (EVHTP500/EVHTP520)
- door switch input
- compressor relay 16 A res. @ 250 VAC
- sealed relays compliant with the standard EN 60079-15
- management of Embraco and Secop variable capacity compressors
- management of 0-10 V compressors and fans $\,$
- output 12 VDC, max. 30 mA
- alarm buzzer
- TTL MODBUS slave port for EVJKEY programming key, EVconnect app, EPoCA remote monitoring system or for BMS
- cold and hot mode and neutral zone regulation.

Purchasing code	Power supply
EV3S554N9	115 230 VAC

MEASUREMENTS AND INSTALLATION | Measurements in mm (inches)

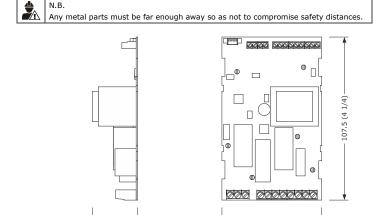
User interface

To be fitted to a panel, snap-in brackets provided



Control module

To be installed on an electrical panel, on plastic spacers (not provided).



INSTALLATION PRECAUTIONS

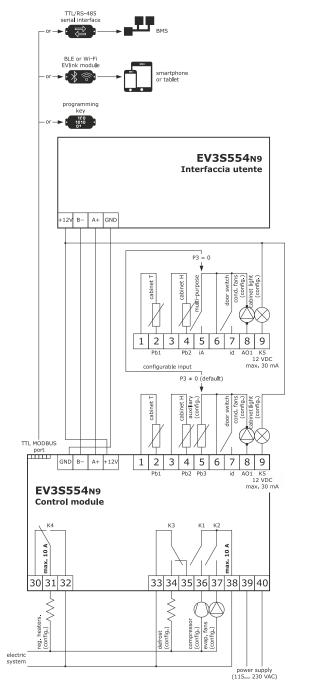
ensure that the working conditions are within the limits stated in the $\emph{TECHNICAL}$ SPECIFICATIONS section

66.5 (2 5/8)

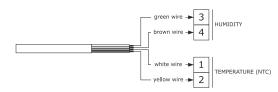
- do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations
- in compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

N.B.

use cables of an adequate section for the current running through them - to reduce any electromagnetic interference, locate the power cables as far away as possible from the signal cables



Electrical connection of humidity and temperature transducer EVHTP500/EVHTP520.



PRECAUTIONS FOR ELECTRICAL CONNECTION

- if using an electrical or pneumatic screwdriver, adjust the tightening torque
- if the device is moved from a cold to a warm place, humidity may cause condensation to form inside. Wait for 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 carrying out any type of maintenance
- do not use the device as a safety device for repairs and for further information, contact the EVCO sales network.
- FIRST-TIME USE

Carry out the installation following the instructions given in the section MEASUREMENTS AND INSTALLATION.

- Power up the device as set out in the section *ELECTRICAL CONNECTION*: an internal test will start up.
- The test normally takes a few seconds: when it is finished the display will switch off. Configure the device as shown in the section Setting configuration parameters.

		menaea connigaration parameters for mo	t time abor
PAR.	DEF.	PARAMETER	MIN MAX.
SPt	2.0	temperature setpoint	r1 r2
SPH	50	humidity setpoint	h1 h2
P0	3	type of temperature probe	0 = PTC or EVHTP500
			1 = NTC or EVHTP500
			2 = PTC or EVHTP520
			3 = NTC or EVHTP520
P2	0	temperature measurement unit	0 = °C 1 = °F
Pr2	1	enable cabinet humidity probe	0 = no $1 = yes$
d1	0	type of defrost	0 = electric 1 = hot gas
			2 = compressor stopped

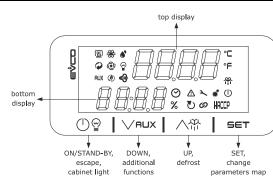
Then check that the remaining settings are appropriate; see the section CONFIGURA-TION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION, without powering up the device.
- To use the device with the EVconnect app, connect the EVIF25TBX module. To use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module. When connecting to an RS-485 network, connect the EVIF22TSX interface. To activate real-time functions, connect the EVIE23TSX module.

$\underline{\text{If using EVIF22TSX or EVIF23TSX, set the bLE parameter to 0}}.$

Power up the device again.

4 USER INTERFACE AND MAIN FUNCTIONS



4.1 Switching the device on/off

1. If POF = 1 (default), touch the ON/STAND-BY key for 2 s.

If the device is switched on, the top display will show the P5 value ("cabinet temperature" de-

LED	ON	OFF	FLASHING
<u>(ss</u>)	regulation heaters switched on	-	-
	-	-	-
AUX	- auxiliary output on - electric door lock active	- auxiliary output off - electric door lock not active	- auxiliary output on from digital input - electric door lock opening
*	compressor on	compressor off	compressor protection active
@	evaporator fans on	evaporator fans off	evaporator fan stop in progress setting evaporator fan speed i progress
(energy saving active	-	-
6 °	dehumidification active		dehumidification delay in progres
⊕	cabinet light on	cabinet light off	cabinet light on from digital input
€}	humidification active	-	-
0	time displayed	-	real time switching on/off and de frost programmed
%	percentage relative humidity displayed	-	humidity setpoint being set
\triangle	alarm active	-	manual alarm reset
U	-	-	-
2	compressor mainte- nance request	-	-
Ø	-	-	BLE connection with EVconnection app active
٥	setting configuration parameters in pro- gress	-	-
НАССР	HACCP alarm saved in EVIF25TBX or EVIF25TWX module	-	new HACCP alarm saved i EVIF25TBX or EVIF25TWX module
°C/°F	temperature displayed	-	temperature setpoint being set
쒸	defrost or pre-drip ac- tive	-	defrosting delay in progress dripping active
(1)	device switched off	device switched on	-

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

4.2 Unlocking the keypad

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

Setting the temperature setpoint, humidity setpoint and evaporator fan speed (percentage of maximum capacity; available if Ao1 = 3 and F30 = 0)

Check that the keypad is not locked.

1.	s	≣T	Touch the SET key.				
2.	1		Touch the UP or DOWN key within 15 s to select a label on the bottom display.				
	LAB.	DESCRIPTION	' '				
	SPt	temperatur	setpoint				
	SPH	humidity se	point				
	F33	evaporator	fan speed (percentage of maximum capacity)				
3.		≣Τ	Touch the SET key.				
4.	1		Touch the UP or DOWN keys within 15 s to set the value on the top display within the established limits.				
	LAB.	ESTABLISH	ED LIMITS (DEFAULT)				
	SPt	r1 and r2 (d	default "0 50 °C/°F")				
	SPH	h1 and h2 (default "10 95 %RH")				
	F33	F31 and F3	2 (default "50 100 %")				
5.	s	≣Τ	Touch the SET key (or take no action for 15 s).				
6.)♀	Touch the ON/STAND-BY key (or take no action for 60 s) to exit the procedure.				
4.4	Activat	ting manual	defrost (if r5 = 0 or 2, default)				

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

1. Touch the UP key for 4 s.

If P3 = $\overset{\cdot}{3}$ (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

Switching the cabinet light on/off (if u1c... u5c = 4)

(D) Touch the ON/STAND-BY key.

Manual switching on/off of the auxiliary output (if u1c... u5c = 9 and r8 = 2) 4.6

VAUX Touch the DOWN key.

If u1c... u5c = 5 and r8 = 3, the **demisting output** switches on for the u6 time.

4.7 Silencing the buzzer (if u9 = 1, default)

Touch a key.

If u1c... u5c = 10 and u4 = 1, the alarm output is deactivated

	ADDITIONAL FUN Viewing the active	CTIONS e map/activating another map (if i5 ≠ 5)	2.	1	SET	ا <u>پ</u> ا	Touch the SET key. Touch the UP or DOWN key within	n 15 s to set the value on the		44	rh3	0	time humidifier off	0 240 s se u1c u4c ≠ 12, tir evaporator fans off in humi
lake s	ure the device is in s		3.	VAL	V H⊔X	NING	top display.	II 13 3 to set the value on the		45	rh4	0	threshold for manual injection	fication -25 99 °C/°F
	LAB. DESCRIPTI	display.		149	valu		storing the factory information (def			46	rh5	0	humidity delay post regulation heaters on	,
	MAP1 map 1 MAP2 map 2		4.	+	SET	<u> </u>	play will show the label " dEF ".			47 48	rh6 rh7	0	SPH intervals link between humidification and	0 9 0 = yes 1 = no
	SET	Touch the SET key again for 2 s to activate another map: the device will reboot.	5.		SET	<u> </u> 	Touch the SET key. Touch the UP or DOWN key within	15 s to set "1" on the top dis-		NO.			compressor status COMPRESSOR	MIN MAX.
		Touch the ON/STAND-BY key to exit the procedure beforehand.	6.	1	V H□X	i 1 <i>9</i>	play. Touch the SET key (or take no a			49	CP0	0	85 Hz PWM compressor time from power-on	
2	Viewing/deleting	compressor operation days	7.		SET	ı	show the " dEF " flashing label for exit the procedure.			50	CP1	50	percentage 0-10 V compressor from power-on	0 100 %
eck t	that the keypad is no	ot locked.	8.	1.		the dev	ice from the power supply. Touch the SET key for 2 s before	action 6 to exit the procedure		51	CP3	100	percentage 0-10 V compressor in cabinet probe alarm	0 100 %
	VAUX	Touch the DOWN key for 1 s.	9.		SET	I	beforehand.	action of to exit the procedure		52	CP4	0	maximum 0-10 V compressor-on time	0 240 min
	₹ FNL ♦	Touch the UP or DOWN key within 15 s to select a label on the bottom display and view or set the value on the top display.	7	CON	FIGUR/	ATION	PARAMETERS			53	C0	0	compressor-on delay from pow- er-on	0 240 min
	LAB. DESCRIPTI CH1 view comp	ION ressor operation days	Ũ≣	NO.	PAR. SPt	DEF.	SETPOINT temperature setpoint	MIN MAX.		54	C1	5	delay between two compressor switch-ons	0 240 min
	1 1	pressor operation days		2 NO.	SPH PAR.	50 DEF.	humidity setpoint ANALOGUE INPUTS	h1 h2 MIN MAX.		55 56	C2 C3	3	minimum compressor-off time minimum compressor-on time	0 240 min 0 240 s
	SET	Touch the SET key.		3	CA1 CA2	0.0	cabinet temperature probe offset cabinet humidity probe offset	-25 25 °C/°F -25 25 % %RH		57	C4	10	compressor-off time in cabinet probe alarm	
_	▼ FNC ▼	Touch the UP or DOWN key to set "149" (to select rCH). Touch the SET key (or take no action for 15 s): the display will		5	CA3	0.0	probe 3 offset type of temperature probe	-25 25 °C/°F 0 = PTC or EVHTP500		58	C5	10	compressor-on time in cabinet probe alarm	0 240 min
	SET	show "" flashing for 4 s, after which the device will exit the procedure.					type or comperators prose	1 = NTC or EVHTP500 2 = PTC or EVHTP520		59	C6	80.0	high condensation signal threshold	0 199 °C/°F differential = 2 °C/4 °F
	Viewing the temp	perature detected by the probes		7	P1	1	enable decimal point °C	3 = NTC or EVHTP520 0 = no 1 = yes		60	C7	90.0	high condensation alarm threshold	
ck t	that the keypad is no	ot locked. Touch the DOWN key for 1 s.		8	P2 Pr2	0	temperature measurement unit enable cabinet humidity probe	0 = °C 1 = °F 0 = no 1 = yes		61 62	C8	1 5	high condensation alarm delay cabinet temperature consecutive	0 15 min 0 99 h
		Touch the UP or DOWN key within 15 s to select a label on the		10	P3	3	configurable input function	0 = digital input 1 = condenser probe		02	CJ	•	· ·	0 = disabled until cabinet temperature
	LAB. DESCRIPTI	bottom display and view the value on the top display.	Q					2 = auxiliary temp.probe 3 = evaporator probe		63	C10	0	power	setpoint 0 999 days
	Pb1 cabinet ten Pb2 cabinet hui	nperature midity (if Pr2 = 1)		11	P5	1	value top display	0 = off 1 = cabinet temperature		NO.		DEF.	nance DEFROSTING (if r5 = 0 or 2)	0 = disabled MIN MAX.
	Pb3 configurabl	le probe temperature (if P3 = 1, 2 or 3) Touch the SET key.						2 = probe 3 temperature 3 = temperature setpoint		64	d0	8	automatic defrost interval	0 99 h 0 = manual only
		Touch the ON/STAND-BY key (or take no action for 60 s) to exit		12	P6	1	value bottom display	4 = humidity setpoint 0 = time		65	d1	0	type of defrost	if d8 = 3, maximum interv
		the procedure.					,	1 = cabinet humidity 2 = probe 3 temperature			-		type of demost	1 = hot gas 2 = compressor stopped
	Electric door lock that the keypad is no	opening (if r8 = 4 and u1c u4c = 13) ot locked.						3 = humidity setpoint 4 = temperature setpoint		66 67			defrost end threshold defrost duration	-99 99 °C/°F
	VAUX	Touch the DOWN key: the bottom display will show the label "PAU".		13 14	P8 P9	5 5	refresh time top display refresh time bottom display	0 250 s: 10 0 250 s: 10		68	d4	0	enable defrost at power-on	if P3 = 3, maximum durati $0 = no$ $1 = yes$
	SET	Touch the SET key.		15	P10	0	time displayed on bottom display in stand-by			69 70	d5 d6	0	defrost delay from power-on value displayed when defrosting	0 99 min 0 = cabinet temperature
		Touch the UP or DOWN key within 15 s to set the PAU value on the top display (default " 000 ").		NO.	PAR.	DEF. 2.0	TEMPERATURE REGULATION setpoint differential in cold mode	MIN MAX. 1 25 °C/°F		/0	uo	1	value displayed when demosting	humidity 1 = locked display
	SET	Touch the SET key (or take no action for $15\ s$): the door will be open the time u7.					regulation	if r5 = 2, cold mode regulation differential for neutral		71 72	d7	2	dripping time	0 15 min
	SETTINGS			17	r1	0.0	minimum temperature setpoint	zone -99 °C/°F r2		/2	d8	0	defrost interval count mode	0 = hours device on 1 = hours compressor on
	Setting configuration	tion parameters Touch the SET key for 4 s: the bottom display will show the label		18	r2	50.0	maximum temperature setpoint enable temperature setpoint lock	r1 199 °C/°F 0 = no 1 = yes						<pre>2 = hours evaporator t perature < d9 3 = adaptive</pre>
	SET	"PA". Touch the SET key.		20	r4	0.0	temperature setpoint lock temperature setpoint offset in energy saving			73	d9	0.0	evaporation threshold for auto-	4 = in real time -99 99 °C/°F
_		Touch the UP or DOWN key within 15 s to set the PAS value on		21	r5	2	type of temperature regulation	0 = cold mode 1 = hot mode		74	us	0.0	matic defrost interval count	-99 99 ·C/ ·F
_	SET	the top display (default "-19"). Touch the SET key (or take no action for 15 s): the top display		22	r8	1	DOWN key additional function	2 = neutral zone 0 = disabled	••	75	d11 d15	0	enable defrost timeout alarm compressor-on consecutive time	0 = no 1 = yes
_		will show the label "SPt". Touch the UP or DOWN key to select a parameter.		22	10	•	Down key additional function	1 = energy saving 2 = auxiliary output on/off		/3	uis	Ü	for hot gas defrost	if values are negative, d ping heaters on time
	SET	Touch the SET key.						(if P3 ≠ 0 and 2) 3 = demisting output on		76	d16	0	pre-dripping time for hot gas de- frost	0 99 min
_		Touch the UP or DOWN key within 15 s to set the value on the						4 = electric door lock open- ing		77	d18	40	adaptive defrost interval	0 999 min if compressor on + evapor
	SET	top display. Touch the SET key (or take no action for 15 s).		23	r11	0.0	neutral zone temperature regula- tion value							tor temperature < d22 0 = manual only
	SET	Touch the SET key (or take no action for 13 s). Touch the SET key for 4 s (or take no action for 60 s) to exit the		24	r12	2.0	setpoint differential in hot mode regulation	1 25 °C/°F if r5 = 2, hot mode regulation		78	d19	3.0	adaptive defrost threshold (relative to optimal evaporation tem-	0 40 °C/°F optimal evaporation temper
	30,	procedure.	*	25	r13	25.0	-	differential for neutral zone		79	d20	180	perature) compressor-on consecutive time	ture - d19 0 999 min
	-	date, time and day of the week (if the 25TWX or EVIF23TSX module is connected)					temperature regulation (relative to setpoint)	· ·		80	d21		for defrost	0 = disabled 0 500 min
	N.B.			26	r14	10	integral action time modulating temperature regulation	 			022		for defrost from power-on	if (cabinet temperature - spoint) > 10°C/20 °F
<u>ئ</u>	date, time and o	·		27	r15	3	type of PWM compressor	1 = Embraco VEM 2 = Embraco VEG		81	d22	-2.0	evaporation threshold for adap-	0 = disabled -10 10 °C/°F
·Q·	ing system, the	mmunicates with the EVconnect app or the EPoCA remote monitored date, time and day of the week will be automatically set by the						3 = Embraco VNEK and VNEU		01	022		tive defrost interval count (relative to optimal evaporation tem-	optimal evaporation tempe ture + d22
—	smartphone or t							4 = Secop VNL 5 = Secop 33 133 Hz		82	d26	6	perature)	0 99 h
	that the keypad is no	ot locked. Touch the DOWN key for 4 s.		28	r16	0	percentage 0-10 V output for compressor with minimum ca-			NO.	PAR.	DEF.	probe alarm ALARMS	0 = manual only MIN MAX.
		Touch the UP or DOWN key within 15 s to select the label "rtc"		29	r17	100	pacity percentage 0-10 V output for	r6 100 %		83	A0	0	select value for high/low temper- ature alarms	0 = cabinet temperature 1 = evaporator temperatu
	V VHUX	on the bottom display. Touch the SET key: the top display will show the label "yy" fol-					compressor with maximum capacity			84	A1	0.0	low temperature alarm threshold	2 = probe 3 temperature -99 99 °C/°F
eck t				30	r18	0	maximum percentage modulating temperature regulation in energy			85	A2	0	type of low temperature alarm	0 = disabled 1 = relative to setpoint (if
	SET	lowed by the last two figures of the year. Touch the UP or DOWN key within 15 s to set the year.		"										= 2, relative to u11)
	SET	Touch the UP or DOWN key within 15 s to set the year.		31	r19	100	saving	not visible if r13 = 0 0 100 %						/ = absolute
eck	Repeat actions 3 a	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. OF THE NUMBERS FOLLOWING THE LABEL			r19	100		_		86	A4	0.0	high temperature alarm threshold	2 = absolute -99 99 °C/°F
eck i	Repeat actions 3 a LAB. MEANING (n month (01 d day (01	Touch the UP or DOWN key within 15 s to set the year. and 4 to set the next labels. OF THE NUMBERS FOLLOWING THE LABEL 12) 31)		31	r19		saving percentage modulating regulation	0 100 % not effective if modulating		86	A4 A5	0.0		-99 99 °C/°F 0 = disabled
eck	Repeat actions 3 a LAB. MEANING (n month (01.	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59)	••	31	PAR.		saving percentage modulating regulation for dehumidification	0 100 % not effective if modulating temperature regulation is re- quired					old	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i
ck i	Repeat actions 3 a LAB. MEANING of n month (013 h hour (00	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL 12) 331) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week.	6'	31 NO. 32	PAR.	DEF.	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint	0 100 % not effective if modulating temperature regulation is re- quired MIN MAX. 0 h2 %RH				0	old type of high temperature alarm	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11)
	Repeat actions 3 a LAB. MEANING 0 n month (013 h hour (00 n minutes (0)	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. OF THE NUMBERS FOLLOWING THE LABEL 1 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	•	31 NO. 32 33	PAR. h1 h2	DEF. 10 95	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA-	O 100 % not effective if modulating temperature regulation is required MIN MAX. O h2 %RH h1 100 %RH		87	A5	120	old type of high temperature alarm high/low temperature and	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (= 2, relative to u11) 2 = absolute 0 240 min
	Repeat actions 3 a LAB. MEANING 0 n month (013 h hour (00 n minutes (0)	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. OF THE NUMBERS FOLLOWING THE LABEL 1 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	••	31 NO. 32 33 NO.	PAR. h1 h2 PAR.	DEF. 10 95 DEF.	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi-	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0)		87 88 89	A5	120	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min
ck i	Repeat actions 3 a LAB. MEANING (n month (013 h hour (00 n minutes (0) SET LAB. DESCRIPTI	Touch the UP or DOWN key within 15 s to set the year. OF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	•	31 NO. 32 33 NO.	PAR. h1 h2 PAR. rd0	DEF. 10 95 DEF.	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidification neutral zone regulating dehumid-	O 100 % not effective if modulating temperature regulation is required MIN MAX. O h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) O 10 %RH	•	88 89 90	A5 A6 A7 A8	120 15	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min 0 240 min
	Repeat actions 3 a LAB. MEANING (n month (013 h hour (00 n minutes (0 SET LAB. DESCRIPTI Mon Monday tuE Tuesday	Touch the UP or DOWN key within 15 s to set the year. OF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	6'	31 NO. 32 33 NO. 34	PAR. h1 h2 PAR. rd0	DEF. 10 95 DEF. 3	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de-	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s	•	88 89 90	A5 A6 A7 A8 A9	120 15 15	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min
ck i	Repeat actions 3 a LAB. MEANING 0 n month (013 h hour (00 n minutes (0 SET LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday	Touch the UP or DOWN key within 15 s to set the year. OF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	8 *	31 NO. 32 33 NO. 34 35	PAR. h1 h2 PAR. rd0 rd1	DEF. 10 95 DEF. 3 0	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de-	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 0 = no	•	88 89 90	A5 A6 A7 A8	120 15 15	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min 0 240 min
ck	Repeat actions 3 a LAB. MEANING 0 n month (013 h hour (00 n minutes (0 SET LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday	Touch the UP or DOWN key within 15 s to set the year. OF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week.	6 *	31 NO. 32 33 NO. 34 35 36	PAR. h1 h2 PAR. rd0 rd1 rd2	DEF. 10 95 DEF. 3 0 60 0	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de- humidification	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0	•	88 89 90	A5 A6 A7 A8 A9	120 15 15 15	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm high/low temperature alarm re-	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (= 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min
ck 1	Repeat actions 3 a LAB. MEANING (n month (013 h hour (00 n minutes (0) LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday Sun Sunday	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. OF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) O 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week. ION	6 *	31 NO. 32 33 NO. 34 35 36	PAR. h1 h2 PAR. rd0 rd1 rd2	DEF. 10 95 DEF. 3 0 60 0	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de- humidification enable dehumidification enable dehumidification	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 1 = yes (if r5 = 2) 2 = yes, with heaters (if r5 = 2 and if F0 = 2) 0 = no 1 = yes	•	88 89 90 91	A5 A6 A7 A8 A9 A10	120 15 15 15	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (= 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min 0 = disabled 1 15 °C/°F 0 = disabled
	Repeat actions 3 a LAB. MEANING (INC.) INC. MEANI	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL III 12) 31) 23) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week. ION Touch the SET key: the device will exit the procedure. Touch the ON/STAND-BY key to exit the procedure beforehand.	*	31 NO. 32 33 NO. 34 35 36 37 38	PAR. h1 h2 PAR. rd0 rd1 rd2 rd3 rd4	DEF. 10 95 DEF. 3 0 60 0 1 1	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de- humidification enable dehumidification enable dehumidification enable defrost relay as regulation heaters enable humidity setpoint lock	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 0 = no 1 = yes (if r5 = 2) 2 = yes, with heaters (if r5 = 2 and if F0 = 2) 0 = no 1 = yes if u1c u5c = 3 ≠ 7 0 = no 1 = yes		88 89 90 91 92	A5 A6 A7 A8 A9 A10 A11	120 15 15 15 10	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm high/low temperature alarm re- set differential	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 = disabled 1 15 °C/°F 0 = disabled 1 = LED HACCP + label F buzzer (if duration
	Repeat actions 3 a LAB. MEANING on month (01. d day (013 h hour (00 n minutes (0 SET LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday Sun Sunday SET Restoring factory	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL III 12) 331) 23) O 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week. ION Touch the SET key: the device will exit the procedure.	*	31 NO. 32 33 NO. 34 35 36 37 38	PAR. h1 h2 PAR. rd0 rd1 rd2 rd3 rd4	DEF. 10 95 DEF. 3 0 60 0 1	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidification neutral zone regulating dehumidification time evaporator fans on in dehumidification time evaporator fans off in dehumidification enable dehumidification enable dehumidification enable dehumidification enable humidification enable defrost relay as regulation heaters enable humidity setpoint lock REGULATING HUMIDIFICATION setpoint differential for humidifi-	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 0 = no 1 = yes (if r5 = 2) 2 = yes, with heaters (if r5 = 2 and if F0 = 2) 0 = no 1 = yes if u1c u5c = 3 ≠ 7 0 = no 1 = yes MIN MAX. 1 25 %RH		88 89 90 91 92	A5 A6 A7 A8 A9 A10 A11	120 15 15 15 10 2.0	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm high/low temperature alarm re- set differential	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (i = 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min 0 = disabled 1 15 °C/°F 0 = disabled 1 = LED HACCP + label is buzzer (if duration A10) 0 100 %RH
	Repeat actions 3 a LAB. MEANING (n month (01 d day (01 h hour (00 n minutes (0 LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday Sun Sunday Restoring factory N.B check that the	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL III 12) 31) 23) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week. ION Touch the SET key: the device will exit the procedure. Touch the ON/STAND-BY key to exit the procedure beforehand.		31 NO. 32 33 NO. 34 35 36 37 38	PAR. h1 h2 PAR. rd0 rd1 rd2 rd3 rd4 rd5 rd6 PAR.	DEF. 10 95 DEF. 3 0 60 0 1 1 0 0 DEF.	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de- humidification enable dehumidification enable dehumidification enable humidity setpoint lock REGULATING HUMIDIFICATION setpoint differential for humidifi- cation neutral zone regulating humidifi-	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 0 = no 1 = yes (if r5 = 2) 2 = yes, with heaters (if r5 = 2 and if F0 = 2) 0 = no 1 = yes if u1c u5c = 3 ≠ 7 0 = no 1 = yes MIN MAX.		88 89 90 91 92 93 94	A5 A6 A7 A8 A9 A10 A11 A12	120 15 15 15 10 2.0	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm high/low temperature alarm re- set differential type of power failure alarm signal	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (if e = 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min 0 = disabled 1 15 °C/°F 0 = disabled 1 = LED HACCP + label P buzzer (if duration A10) 0 100 %RH 0 = disabled differential = 2 %RH
	Repeat actions 3 a LAB. MEANING (n month (01 d day (01 h hour (00 n minutes (0 LAB. DESCRIPTI Mon Monday tuE Tuesday UEd Wednesday thu Thursday Fri Friday Sat Saturday Sun Sunday Restoring factory N.B check that the PARAMETERS.	Touch the UP or DOWN key within 15 s to set the year. Ind 4 to set the next labels. DF THE NUMBERS FOLLOWING THE LABEL 12) 31) 23) 0 59) Touch the SET key: the top display will show the label for the day of the week. Touch the UP or DOWN key within 15 s to set the day of the week. ION Touch the SET key: the device will exit the procedure. Touch the ON/STAND-BY key to exit the procedure beforehand. (default) settings	3 *	31 NO. 32 33 NO. 34 35 36 37 38 39 40 NO.	PAR. h1 h2 PAR. rd0 rd1 rd2 rd3 rd4 rd5 rd6 PAR. rh0	DEF. 10 95 DEF. 3 0 60 1 0 DEF. 3	saving percentage modulating regulation for dehumidification HUMIDITY minimum humidity setpoint maximum humidity setpoint REGULATING DEHUMIDIFICA- TION setpoint differential for dehumidi- fication neutral zone regulating dehumid- ification time evaporator fans on in de- humidification time evaporator fans off in de- humidification enable dehumidification enable dehumidification enable defrost relay as regulation heaters enable humidity setpoint lock REGULATING HUMIDIFICATION setpoint differential for humidifi- cation	0 100 % not effective if modulating temperature regulation is required MIN MAX. 0 h2 %RH h1 100 %RH MIN MAX. 1 25 %RH relative to rd1 (rd1 + rd0) 0 10 %RH 0 240 s if r5 = 2 and F0 = 0 0 240 s if r5 = 2 and F0 = 0 1 = yes (if r5 = 2) 2 = yes, with heaters (if r5 = 2 and if F0 = 2) 0 = no		88 89 90 91 92 93	A5 A6 A7 A8 A9 A10 A11	120 15 15 15 10 2.0	old type of high temperature alarm high/low temperature and high/low humidity alarm delay from power-on high/low temperature alarm de- lay high temperature alarm delay post-defrosting high temperature alarm delay from door closure duration of power failure for dis- playing and saving alarm high/low temperature alarm re- set differential type of power failure alarm signal	-99 99 °C/°F 0 = disabled 1 = relative to setpoint (if equation = 2, relative to u11) 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min 1 15 °C/°F 0 = disabled 1 = LED HACCP + label P buzzer (if duration A10) 0 100 %RH 0 = disabled

EVCO S.	n A.	FV3S55	4 Inst	ruction sheet ver. 2.0 Code 1043S55	15203 Page 3 of 3 PT 44/24
2700 0.	NO.	PAR.	DEF.	FANS	MIN MAX.
	98	F0	1	evaporator fan mode in normal function	0 = on if r5 = 0, on if com- pressor or regulation heaters on if r5 = 1,
					with F38 and F39 if $r5 = 2$, on if regulation
					heaters on 1 = on
					2 = on if compressor or reg- ulation heaters on, with
					rd2 and rd3 otherwise 3 = with cabinet tempera-
					ture + F1, on if regula- tion heaters on
					4 = with cabinet tempera- ture + F1 if compressor
					or regulation heaters on, on if regulation heaters on, with rd2 and rd3 if
					compressor or regula- tion heaters off
	99	F1	0.0	evaporator fans regulation threshold	-99 99 °C/°F
	100	F2	0	evaporator fan mode in defrost and drip mode	0 = off 1 = on 2 = function of F0
	101	F3	2	maximum time evaporator fans off	0 15 min
	102	F4	30	time evaporator fans off in energy saving	0 240 s x 10 if compressor off
	103	F5	30	time evaporator fans on in energy saving	0 240 s x 10 if compressor off
	104	F7	5.0	evaporator fans on threshold from dripping (relative to set-	-99 99 °C/°F setpoint + F7
	105	F8	2.0	point) evaporator fans regulation	1 15 °C/°F
Ş	106	F9	10	threshold differential evaporator fans off delay from	0 240 s
	107	F11	15.0	compressor off condenser fans on threshold	if F0 = 2 or 5 0 99 °C/°F
	108	F12	30	condenser fans off delay from compressor off	0 240 s if P3 ≠ 1
	109	F13	2.0	condenser fans regulation threshold differential	1 25 °C/°F 0-10 V condenser fans pro-
	110	F14	10	100 % start-up time for 0-10 V	portional band if Ao1 = 2 (relative to F11, F11 + F13)
	111	F15	100	condenser fans maximum percentage 0-10 V	
	112	F30	0	condenser fans in energy saving setting percentage 0-10 V evapo-	0 = touch SET key twice
				rator fans in normal function mode	1 = with F33 2 = automatic with F1, F31,
	113	F31	50	percentage 0-10 V output for	F32 and F36 0 100 %
		500		evaporator fans with minimum capacity	if F31>F32, F32 is relevant
	114	F32	100	percentage 0-10 V output for evaporator fans with maximum capacity	0 100 % if F32 <f31, f31="" is="" relevant<="" td=""></f31,>
	115	F33	100	percentage 0-10 V evaporator fans in normal function	F31 F32
	116	F34	10	F35 start up time 0-10 V evaporator fans	0 240 s
	117	F35	100	percentage 0-10 V evaporator fans from power-on	0 100 %
	118	F36	10	0-10 V evaporator fans proportional band (relative to F1)	1 50 °C/°F F1-F36
	119	F37	60	maximum percentage 0-10 V evaporator fans in energy saving time evaporator fans on with	0 100 %
	121	F39	0	compressor off time evaporator fans off with	if F0 = 0 0 240 s
	NO.	PAR.	DEF.	compressor off DIGITAL INPUTS	if F0 = 0 MIN MAX.
	122	i0	5	door switch input function	0 = disabled 1 = compressor or regula-
					tion heaters + evapora- tor fans off
					2 = evaporator fans off 3 = cabinet light on
					4 = compressor or regulation heaters + evaporator fans off, cabinet light
					on 5 = evaporator fans off, cab-
	123	i1	0	door switch input activation	inet light on 0 = with contact closed
	124	i2	30	door open alarm delay	1 = with contact open -1 120 min
	125	i3	15	maximum time for inhibiting reg-	-1 = disabled -1 120 min
	126	i5	0	ulation with door open multi-purpose input function	-1 = until closed 0 = disabled
					1 = energy saving 2 = alarm iA
F					3 = alarm iSd 4 = auxiliary output on 5 = map 1 if deactivated
					map 2 if active 6 = switches device on/off
					7 = alarm LP 8 = alarm C1t
	127	i6	0	multi-purpose input activation	0 = with contact closed 1 = with contact open
	128	i7	0	multi-purpose input alarm delay	0 120 min if i5 = 3 or 7, compressor on
	129	i8	0	number of multi-purpose input	delay from alarm reset 0 15 0 = disabled
	130	i9	240	activations for high pressure alarm counter reset time for high pres-	if i5 = 3 1 999 min
	131	i10	0	sure alarm door closed consecutive time for	0 999 min
				energy saving	after cabinet temperature < SPt 0 = disabled
	132	i13	180	number of door openings for de- frost	0 = disabled 0 240 0 = disabled
	133	i14	32	door open consecutive time for defrost	0 240 min 0 = disabled

	NO.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.
	134	u1c	0	K1 relay configuration	0 = compressor
					1 = evaporator fans2 = condenser fans
					2 = condenser fans 3 = defrosting
					4 = cabinet light
					5 = demisting
					6 = door heaters 7 = regulation heaters
					8 = dripping heaters
					9 = auxiliary
					10= alarm 11= on/stand-by
					11= on/stand-by 12= humidifier
					13= electric door lock
	135	u2c	1	K2 relay configuration	like u1c
	136 137	u3c u4c	7	K3 relay configuration K4 relay configuration	like u1c
هد	138	u5c	4	K5 relay configuration	0 = PWM compressor
X					1 11 like u1c
	139	u2	0	enable cabinet light and auxiliary	0 = no 1 = yes
	140	u3	0	output in stand-by alarm relay activation	in manual mode 0 = with alarm not active
					1 = with alarm active
	141	u4	1	enable silencing alarm output	0 = no 1 = yes
	142	u5	-1.0	door heaters on threshold	-99 99 °C/°F
	143	u5d	2.0	door heaters on threshold differ- ential	1 25 °C/°F
	144	u6	5	duration demisting on	1 120 min
	145	u7	3	electric door lock opening dura-	1 120 s
				tion	
	146	u9	1	enable alarm buzzer	0 = no 1 = yes
	147	u10	0	hot or cold mode regulation aux- iliary output	0 = cold mode 1 = hot mode
	L			,	if P3= 2
	148	u11	0.0	auxiliary temperature setpoint	-99 99 °C/°F
	149	u12	1.0	auxiliary temperature setpoint	1 15 °C/°F
	NO.	PAR.	DEF.	differential ANALOGUE OUTPUTS	MIN MAX.
	150	Ao1	2	analogue output configuration	0 = PWM compressor (r15)
/ ~				, , , , , , , , , , , , , , , , , , , ,	1 = 0-10 V compressor
<u></u>					2 = 0-10 V condenser fans
					3 = 0-10 V evaporator fan:
$\overline{\bigcirc}$	NO.	PAR.	DEF.	CLOCK	MIN MAX.
<u> </u>	151	Hr0	0	enable clock	0 = no 1 = yes
<u> </u>	NO.	PAR.	DEF.	ENERGY SAVING (if r5 = 0)	MIN MAX.
**	152	HE2	0	maximum duration energy saving	0 999 min0 = until door opened
	NO.	PAR.	DEF.	ENERGY SAVING IN REAL TIME	MIN MAX.
<u>(</u> C)				(if r5 = 0; visible if Hr0=1)	
*	153	H01	0	energy saving time	0 23 h
	154 NO.	H02 PAR.	O DEF.	maximum duration energy saving SWITCHING ON/OFF IN REAL	0 24 h MIN MAX.
	INU.	I AK.	DEP.	SWITCHING ON/OFF IN REAL TIME (visible if Hr0=1)	1141V PIMA.
	155	Hon	h-	time device switch-on	0 h-
щG	Ш				h- = disabled
	156	HoF	h-	time device switch-off	0 h- h- = disabled
	NO.	PAR.	DEF.	DEFROSTING IN REAL TIME (if	MIN MAX.
				d8 = 4; visible if Hr0=1)	
	157	Hd1	h-	1st daily defrosting time	0 h- h- = disabled
	158	Hd2	h-	2nd daily defrosting time	0 h-
	Ш	· -			h-= disabled
♠ ©	159	Hd3	h-	3rd daily defrosting time	0 h-
٠	160	НЧ	h-	4th daily defrosting time	h- = disabled 0 h-
	160	Hd4	h-	4th daily defrosting time	0 h- h- = disabled
	161	Hd5	h-	5th daily defrosting time	0 h-
					h-= disabled
	162	Hd6	h-	6th daily defrosting time	0 h-
	NO.	PAR.	DEF.	SECURITY	h- = disabled MIN MAX.
				enable ON/STAND-BY key	0 = no 1 = yes
	163	POF	1		
	163 164	POF Loc	1	enable keypad lock	0 = no 1 = yes
	164 165	Loc PAS	1 -19	password	-99 999
(v)	164 165 166	Loc PAS PA1	1 -19 426	password 1st level password	-99 999 -99 999
⊘	164 165 166 167	PAS PA1 PA2	1 -19 426 824	password 1st level password 2nd level password	-99 999 -99 999 -99 999
Ø	164 165 166	Loc PAS PA1	1 -19 426	password 1st level password	-99 999 -99 999
Ø	164 165 166 167	PAS PA1 PA2	1 -19 426 824	password 1st level password 2nd level password electric door lock opening pass-	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1
	164 165 166 167 168	PAS PA1 PA2 PAU PnP	1 -19 426 824 000	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2
Ø	164 165 166 167 168	PAS PA1 PA2 PAU	1 -19 426 824 000	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1
♡	164 165 166 167 168	PAS PA1 PA2 PAU PnP	1 -19 426 824 000	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2
Ø	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1)	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX.
⊗	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature
	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe
	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature
⋄	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature temperature probe
☆	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu
♦	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe
♦	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR.	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data log-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu
	164 165 166 167 168 169 NO.	PAS PA1 PA2 PAU PnP PAR. rE0 rE1	1 -19 426 824 000 1 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thumidity probe 5 = all
	164 165 166 167 168 169 NO. 170 171	Loc PAS PA1 PA2 PAU PnP PAR. rE0 rE1	1 -19 426 824 000 1 DEF. 15 4	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud
	164 165 166 167 168 169 NO. 170 171	Loc PAS PA1 PA2 PAU PnP PAR. PAR. LA	1 -19 426 824 000 1 DEF. 4	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS MODBUS address	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thur midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud
	164 165 166 167 168 169 NO. 170 171	Loc PAS PA1 PA2 PAU PnP PAR. PAR. LA	1 -19 426 824 000 1 DEF. 4	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS MODBUS address	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud
	164 165 166 167 168 169 NO. 170 171	Loc PAS PA1 PA2 PAU PnP PAR. PAR. LA	1 -19 426 824 000 1 DEF. 4	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS MODBUS address	-99 999 -99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud
	164 165 166 167 168 169 NO. 170 171 NO. 172 173	PAR. LA Lb	1 -19 426 824 000 1 DEF. 15 4 DEF. 247 2	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS MODBUS address MODBUS baud rate MODBUS parity	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 0 = none 1 = odd 2 = even
	164 165 166 167 168 169 NO. 170 171 NO. 172 173	PAR. PAR. PAR.	1 -19 426 824 000 1 DEF. 15 4 DEF. 247 2 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS address MODBUS baud rate MODBUS parity EVLINK	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud 0 = none 1 = odd 2 = even MIN MAX.
♦	164 165 166 167 168 169 NO. 170 171 NO. 172 173	PAR. LA Lb	1 -19 426 824 000 1 DEF. 15 4 DEF. 247 2	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS MODBUS address MODBUS baud rate MODBUS parity	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 2 = cabinet himidity probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 0 = none 1 = odd 2 = even
	164 165 166 167 168 169 NO. 170 171 NO. 172 173	PAR. PAR. PAR.	1 -19 426 824 000 1 DEF. 15 4 DEF. 247 2 DEF.	password 1st level password 2nd level password electric door lock opening password enable map 1 or map 2 EVLINK DATA-LOGGING (visible if Hr0=1) data logger sampling interval select temperature for data logger MODBUS MODBUS address MODBUS baud rate MODBUS parity EVLINK serial port configuration for con-	-99 999 -99 999 -99 999 000 = disabled 1 = map 1 2 = map 2 MIN MAX. 0 240 min 0 = none 1 = cabinet temperature probe 3 = probe 3 4 = cabinet temperature probe and cabine thu midity probe 5 = all MIN MAX. 1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud 0 = none 1 = odd 2 = even MIN MAX. 0 = free

8	ALARMS			
CODE	DESCRIPTION	RESET	TO CORRECT	
Pr1	cabinet probe alarm	automatic	- check P0	
Pr2	humidity probe alarm	automatic	- check integrity of the probe	
Pr3	probe 3 alarm	automatic	- check electrical connection	. , N.B.
rtc	clock alarm	manual	set date, time and day of the week	The device must be disposed of according to local regulations governing the collection
AL	low temperature alarm	automatic	check A0, A1 and A2	of electrical and electronic equipment.
AH	high temperature alarm	automatic	check A0, A4 and A5	
AL2	low humidity alarm	automatic	check AH1	This document and the solutions contained therein are the intellectual property of EVCO and thus pro-
AH2	high humidity alarm	automatic	check AH4	tected by the Italian Intellectual Property Rights Code (CPI). EVCO imposes an absolute ban on the full
id	door open alarm	automatic	check i0 and i1	or partial reproduction and disclosure of the content other than with the express approval of EVCO. The
PF	power failure alarm	manual	- touch a key	customer (manufacturer, installer or end user) assumes all responsibility for the configuration of the de-
			- check electrical connection	vice.
СОН	high condensation signal	automatic	check C6	EVCO accepts no liability for any possible errors in this document and reserves the right to make any
CSd	high condensation alarm	manual	- switch the device off and on - check C7	changes at any time without prejudice to the essential functional and safety features of the equipment.
iA	multi-purpose input alarm	automatic	check i5 and i6	EVCO S.p.A.
iSd	high pressure alarm	manual	- switch the device off and on	Via Feltre 81, 32036 Sedico (BL) ITALY
			- check i5, i6, i8, i9	Tel. +39 0437/8422 Fax +39 0437/83648
LP	low pressure alarm	automatic	check i5 and i6	email info@evco.it web www.evco.it

C1t	compressor thermal switch alarm	automatic	check i5 and i6
dFd	defrost timeout alarm	manual	- touch a key - check d2, d3 and d11

Purpose of the Construction of				
CONSTRUCTION OF		function controller. built-in electronic device.		
Housing:	the control device:	built-in electronic device.		
	black, self-extinguishing	control module: open frame board.		
Category of he	at and fire resistance:	D.		
Measurements:				
	: 75.0 x 33.0 x 39.5 mm	control module: 66.5 x 107.5 x 31.0 mm (2		
	/16 x 1 9/16 in)	5/8 x 4 1/4 x 1 1/4 in).		
	ods for the control device: to be fitted to a panel, snap-in	control module: to be installed on an electri		
brackets provid		cal panel, on plastic spacers (not provided).		
	ection provided by the casing:	car pariety on prastic spacers (not provided).		
user interface:		control module: IP00.		
Connection me	thod:			
	plug-in screw terminal blocks	control module:		
for wires up to	2.5 mm²	- fixed screw terminal blocks for wires up to		
		2.5 mm ² - Pico-Blade connector.		
Maximum perm	nitted length for connection cable			
	control module: 10 m (32.8 ft)	power supply: 10 m (32.8 ft)		
	s: 10 m (32.8 ft)	digital inputs: 10 m (32.8 ft)		
analogue outpu	ıts: 3 m (9.84 ft)	digital outputs: 10 m (32.8 ft).		
Operating temp	perature:	from 0 to 60 °C (from 32 to 140 °F).		
Storage tempe	rature:	from -25 to 70 °C (from -13 to 158 °F).		
Operating hum	idity:	relative humidity without condensate from		
D. II. 12	of the country to the	10 to 90%.		
	of the control device:	2.		
Compliance: RoHS 2011/65/	/EC WEEE 2012/19	7/EU REACH (EC) Regulation		
VOLIO ZUII/03/	WEEE 2012/19	no. 1907/2006		
EMC 2014/30/E		LVD 2014/35/EU.		
Power supply:				
user interface:	powered by the control mod-	control module: 115 230 VAC (+10%		
ule		15%), 50/60 Hz (±3 Hz), max. 3.2 VA insu-		
		lated.		
	ods for the control device:	none.		
	withstand voltage:	2.5 KV.		
Over-voltage co Software class		II. A.		
		temperature transducer EVHTP500, EVHTP520 (cabinet temperature probe) - 1 for humidity and temperature transduce EVHTP500/EVHTP520 (cabinet humidity		
DTC	T	probe).		
PTC probes:	Type of sensor: Measurement field:	KTY 81-121 (990 Ω @ 25 °C, 77 °F) from -50 to 150 °C (from -58 to 302 °F)		
	Resolution:	0.1 °C (1 °F).		
NTC probes:	Type of sensor:	0.1 °C (1 °F). β3435 (10 KΩ @ 25 °C, 77 °F)		
	Measurement field:	from -40 to 105 °C (from -40 to 221 °F)		
	Resolution:	0.1 °C (1 °F).		
Humidity an		i		
•	d temperature transducer	i		
EVHTP500/EVH	d temperature transducer	 relative humidity without condensate fron 5 to 95% from -10 to 70 °C (from 14 to 158 °F). 		
EVHTP500/EVH Digital inputs:	d temperature transducer	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch).		
Humidity an EVHTP500/EVH Digital inputs: Other inputs:	d temperature transducer	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu		
EVHTP500/EVH Digital inputs:	d temperature transducer	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita		
EVHTP500/EVH Digital inputs: Other inputs:	d temperature transducer ITP520:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact).		
EVHTP500/EVH Digital inputs: Other inputs:	d temperature transducer	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita		
EVHTP500/EVH Digital inputs: Other inputs:	d temperature transducer ITP520: Type of contact:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry:	d temperature transducer ITP520: Type of contact: Power supply: Protection:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none		
EVHTP500/EVH	d temperature transducer ITP520: Type of contact: Power supply: Protection:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs:	d temperature transducer ITP520: Type of contact: Power supply: Protection:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM	d temperature transducer ITP520: Type of contact: Power supply: Protection: Its: Power supply: Frequency:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal:	d temperature transducer ITP520: Type of contact: Power supply: Protection: Its: Power supply: Frequency: Protection:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none.		
Digital inputs: Other inputs: Contact dry: Analogue output Other outputs: PWM signal:	d temperature transducer ITP520: Type of contact: Power supply: Protection: Jts: Power supply: Frequency: Protection: Minimum applicable imped-	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz		
Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue input (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay is compliance with the EN 60079-15 standard.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digita input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in		
EVHTP500/EVH Digital inputs: Other inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue input (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay is compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpt Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay: K3 relay:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue input (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: O-10 V signal: Digital outputs: X1 relay: K2 relay: K3 relay: K4 relay:	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue input (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay is compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPST, 5 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay: K3 relay: K4 relay: Type 1 or Type	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay is compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay: K3 relay: K4 relay: Type 1 or Type Additional feat	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate fron 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay is compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPST, 5 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC. SPDT, 16 A res. @ 250 VAC. SPDT, 16 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Other inputs: Contact dry: Analogue outpu Other outputs: WM signal: O-10 V signal: Oigital outputs: (2 relay: (3 relay: (4 relay: (4 relay: (54 relay: (55 relay: (55 relay: (56 relay: (57 relay: (57 relay: (58 relay: (59 relay: (59 relay: (59 relay: (59 relay: (50	d temperature transducer ITP520: Type of contact: Power supply: Protection: uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue input (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPST, 5 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC. SPDT, 16 A res. @ 250 VAC.		
EVHTP500/EVH Digital inputs: Other inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay: K3 relay: K4 relay: Type 1 or Type Additional feat tions: Displays: Alarm buzzer:	Type of contact: Power supply: Protection: Uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	 relative humidity without condensate from 5 to 95% from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPST, 5 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC. SPDT, 16 A res. @ 250 VAC. type 1. C. custom display, 3 digit, with function icons. built-in. 		
EVHTP500/EVH Digital inputs: Other inputs: Contact dry: Analogue outpu Other outputs: PWM signal: 0-10 V signal: Digital outputs: K1 relay: K2 relay: K3 relay: K4 relay: K4 relay: Type 1 or Type Additional feat tions: Displays:	Type of contact: Power supply: Protection: Uts: Power supply: Frequency: Protection: Minimum applicable impedance: Resolution:	- relative humidity without condensate from 5 to 95% - from -10 to 70 °C (from 14 to 158 °F). 1 dry contact (door switch). 1 input can be configured for analogue inpu (probe 3, for PTC or NTC probes) or digital input (multi-purpose, dry contact). 5 VDC, 1.5 mA none none. 1 for PWM or 0-10 V signal 1 for 12 VDC, max. 30 mA. 12 VDC (+16% -25%), 20 mA max. 0 150 Hz none. 1 KΩ 0.01 V. 4 with sealed electro-mechanical relay in compliance with the EN 60079-15 standard. SPST, 16 A res. @ 250 VAC. SPST, 5 A res. @ 250 VAC. SPDT, 8 A res. @ 250 VAC. SPDT, 16 A res. @ 250 VAC.		



