# **EV3H94**

# Controller for DHW heat pump heaters





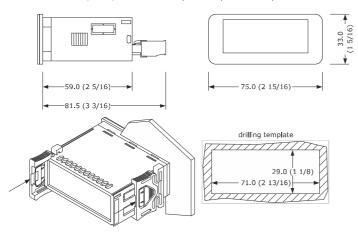


## EN ENGLISH

- power supply 115... 230 VAC
- DHW tank upper and lower probe, evaporator probe (PTC/NTC/Pt 1000)
- photovoltaic, HP and multi-purpose digital input (see i0)
- compressor relay 16 A res. @ 250 VAC
- alarm buzzer
- TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for BMS.

### 1 MEASUREMENTS AND INSTALLATION

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



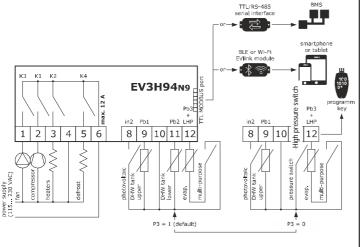
### INSTALLATION PRECAUTIONS

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

### 2 ELECTRICAL CONNECTION

### N.B.

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



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.

### 3 FIRST-TIME USE

- 1. 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*.

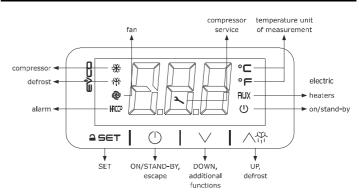
Recommended	configuration	parameters f	for first-time use	::

PAR. DEF. PARAMETER		PARAMETER	MIN MAX.
SP1	55.0	setpoint in economy mode	r3 r4
SP2	65.0	setpoint in comfort mode	r1 r2
P0 1 type of probe		type of probe	0 = PTC 1 = NTC
			2 = Pt 1000
P2	0 temperature measurement unit		$O = °C \qquad 1 = °F$
P3	1	enabled probes	0 = DHW tank upper probe + high pressure input 1 = DHW tank upper and lower probe
d1	2	type of defrost	0 = electric 1 = hot gas 2 = compressor stopped 3 = hot gas balancing the pressure

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

- 4. Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- 6. For the connection in an RS-485 network connect the interface EVIF22TSX or EVIF23TSX, to activate real time functions connect the module EVIF23TSX, to use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module, to use the device with the APP EVconnect connect the interface EVIF25TBX; see the relevant instruction sheets. <u>If EVIF22TSX or EVIF23TSX is used, set parameter bLE to 0</u>.
  - Power up the device

### 4 USER INTERFACE AND MAIN FUNCTIONS



### Switching the device on/off

4.1

1.

()

If the device is switched on, the display will show the P5 value ("DHW tank upper temperature" default): if the display shows an alarm code, see the section ALARMS.

LED	ON	OFF	FLASHING
*	compressor switched	compressor switched	- compressor protection active
727	on	off	<ul> <li>setpoint being set</li> </ul>
幣	defrost active	-	-
@	fans switched on	fans switched off	-
НАССР	alarm active	-	-
2	compressor mainte-	-	operation with EVconnect APP ac-
	nance request		tive
°C∕°F	temperature display	-	-
AUX	heaters switched on	heaters switched off	-
Û	device switched off	device switched on	-

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

Touch the ON/STAND-BY key for 4 s.

EVCO S.p.A.	EV3H94	Instruction sheet ver.	1.0	Code 1043H94E104   Page 2 of 5   PT 05/21

#### Unlocking the keypad 4.2

4.4

1

2

3

4.

5

6

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

#### 4.3 Setting the setpoint Economy

Setting the Comfort setpoint

Check that the keypad is not locked

入班 ار

入空

ŀ

**≙** SET

≙ SET

≙ SET

 $(\mathbf{1})$ 

Check that the keypad is not locked.					
1.	≙ SET	Touch the SET key: the display will show the label "SP1".	5.7	Green	
2.	- SET	Touch the SET key.	It activ setpoi	vates with nt″	
3.	<b>€</b>	Touch the UP or DOWN keys within 15s to set the value within the limits $r3$ and $r4$ (default "40 55").	-	compress fans swite	
4.	- SET	Touch the SET key (or take no action for 15s).	-	heaters s	
5.		Touch the ON/STAND-BY key.	5.8 This fu	Antifree:	

Touch the SET key: the display will show the label "SP1"

Touch the UP or DOWN keys within 15s to set the value within

Touch the UP or DOWN key to select the label "SP2"

5.6 Photovoltaic system It activates with photovoltaic input active

fans switched on if d1 = 2

on as in comfort mode, except for "SP2 setpoint" which becomes "SP6 setpoint".

heaters switched on to prevent too high temperature drop in the storage tank

multi-purpose input active and DHW tank upper and lower temperature > "SP8

sor switched off tched off switched off

### eze

This function is used to prevent the water freezing. It is activated when tank upper temperature < "SP7 setpoint" - "r0 differential" and this function is deactivated when tank upper temperature > "SP7 setpoint" heaters are switched on.

This function can be active only if the controller is in stand-by

#### 5.9 Pre opening hot gas defrost valve

This function is used to balance the pressure at the compressor start-up, and it is activated onlv if "d1" = 3.

This function switch on the defrost output "i11" seconds before the start-up of the compressor, this occurs every time the compressor started, even if there is no defrost request.

### 5.10 Fan operation

The fan operates depending on the active function, normally C12 second before the switch on of the compressor. There are some exceptions:

- defrost: in case of hot gas (d1=1) compressor is active but fan is off. In case of compressor stop (d1=2) compressor is off but fan is active
- alarms: in case of LHP compressor is off but fan is active.

#### 6 ADDITIONAL FUNCTIONS 61 Activating/deactivating comfort operation in manual mode Check that the keypad is not locked. $\backslash$ Touch the DOWN key for 1 s: the display will show a code. 1. 入班 ار 2 Touch the UP or DOWN key within 15s to select a label. COD. DESCRIPTION Auto activates comfort operation ECO deactivates comfort operation 3.

**≙** set Touch the SET key. Touch the ON/STAND-BY key (or take no action for 60s) to exit  $(\mathbf{1})$ Δ the procedure.

#### 6.1 Activating the overboost function

спеск і	check that the keypad isn't locked.				
1.	$\sim$	Touch the DOWN key for 1 s: the display will show a code.			
2.	f ^# •	Touch the UP or DOWN key within 15s to select "ObS".			
3.	à set	Touch the SET key.			
4.		Touch the ON/STAND-BY key (or take no action for 60s) to exit the procedure.			

#### 6.2 Displaying the operating mode

Cł

Спеск т	ck that the keypad is not locked.			
1.		$\checkmark$	Touch the DOWN key: the display will show a code.	
	COD.	DESCRIPTI	ON	
	ECO	economy		
ObS overboost				
	Auto	comfort		
	Anti	anti-legion	ella; if flashing, DHW tank lower temperature > "SP1 setpoint" and	
		> "SP2 set	point"	
	dEFr defrost			
	in2 photovoltaic function			
2.		D I	Touch the ON/STAND-BY key (or take no action for 60s) to exit	
∠.			the procedure.	

#### 6.3 Displaying/deleting compressor functioning hours

Check that the keypad is not locked

Uncer i	sheek that the keybad is not locked.			
1.			Touch the DOWN key for 1 s: the display will show a code.	
2.			Touch the UP or DOWN key within 15s to select a label.	
	COD.	DESCRIPTION	N	
	СН	display com	pressor working hours in hundreds	
	rCH	delete comp	pressor working hours	
3.	≙set		Touch the SET key.	
4.			Touch the UP or DOWN key to set "149" (to select <b>rCH</b> ).	
5.	- SET		Touch the SET key.	
6.		U I	Touch the ON/STAND-BY key (or take no action for 60s) to exit the procedure.	

#### 4.5 Setting the overboost activation threshold

Touch the SET key

Спеск т	hat the keypad is no	t locked.
1.	≙ SET	Touch the SET key: the display will show the label "SP1".
2.		Touch the UP or DOWN key to select the label "SP3".
3.	<b>≙</b> SET	Touch the SET key.
4.	f	Touch the UP or DOWN keys within 15s to set the value within the limits 10 and r2 (default "10 $70^{\circ}$ ).
5.	<b>≙</b> SET	Touch the SET key (or take no action for 15s).
6.		Touch the ON/STAND-BY key.

the limits r1 and r2 (default "40... 70").

Touch the ON/STAND-BY key

Touch the SET key (or take no action for 15s)

#### Activating manual defrost 4.6

Check that the keypad isn't locked and that the anti-legionella and overboost functions aren't active.

1.	∧☆	Touch the UP key for 4s.
If P4 =	1 or 2 (default), def	rost is activated provided tha

hat the evaporator temperature is lower than the d2 threshold.

#### 4.7 Silencing the alarm buzzer (if u9 = 1)

Touch a key

#### 5 FUNCTIONS AND LOAD OPERATIONS

- 5.1 Economy compressor on if DHW tank lower temperature < "SP1 setpoint - r0 differential" and off if DHW tank lower temperature > "SP1 setpoint"
- fans on if compressor on
- heaters switched off in normal operation (on if needed during defrost)

#### 5.2 Comfort

compressor on if DHW tank lower temperature < "SP5 setpoint - r0 differential" and off if DHW tank lower temperature > "SP5 setpoint"

- fans on if compressor on
- heaters on, with a single probe configured (P3 = 0), if DHW tank upper temperature < "SP2 - r6 threshold - r7 differential" and off if DHW tank upper temperature > "SP2 r6 threshold".
- heaters on, with two probes configured (P3 = 1), if DHW tank upper temperature < "SP2 - r0 differential" and off if DHW tank upper temperature > "SP2"

#### 5.3 Anti-legionella

It activates at "H0 intervals" or at "Ant time", provided that DHW tank lower temperature > "SP1 setpoint" and > "SP2 setpoint"

- compressor switched off
- fans switched off
- heaters switched on until DHW tank upper temperature > "H1 threshold" and then for "H3 time"

#### Overboost 5.4

It activates in manual mode, provided that DHW tank upper and lower temperature < "SP3 threshold"

compressor, fans and heaters on until DHW tank upper temperature > "SP1 setpoint".

#### 5.5 Defrosting

It activates with evaporator temperature < "d17 threshold" for "d18 time" or in manual mode, provided that the anti-legionella and overboost functions are not active

compressor switched on if d1 = 1 defrost relay active if d1 = 1 or 2

# EVCO S.p.A. EV3H94 Instruction sheet ver. 1.0 Code 1043H94E104 Page 3 of 5 PT 05/21 7 SETTINGS

7.1	Setting configuration parameters				
1.	<b>≙</b> set	Touch the SET key for 4 s: the display will show the label " $\ensuremath{\textbf{PA}}\xspace"$ .			
2.	I ≙ SET	Touch the SET key.			
3.	€	Touch the UP or DOWN key within 15s to set -19".			
4.	I ≅ SET	Touch the SET key (or take no action for 15s): the display will show the label " $\mathbf{SP}$ ".			
5.	<b>イー</b> へ帶 <b>・</b>	Touch the UP or DOWN key to select a parameter.			
6.	I ≙ SET	Touch the SET key.			
7.	€	Touch the UP or DOWN key within 15s to set the value.			
8.	I ≅ SET	Touch the SET key (or take no action for 15s).			
9.	- SET	Touch the SET key for 4s (or take no action for 60s) to exit the procedure.			

7.2 Set the date, time and day of the week (if module EVIF23TSX, EVIF25TWX or interface EVIF25TBX is connected)

 N.B.

 - Do not disconnect the device from the mains within two minutes since the setting of the time and day of the week.

 - if the device communicates with the EVconnect app, the date, time and day of the week will be automatically set by the smartphone or tablet.

 Check that the keypad is not locked.

1.	`	$\checkmark$	Touch the DOWN key for 4 s.
2.	ŕ		Touch the UP or DOWN key within 15 s to select the label "rtc".
3.	= :	∋∈⊤	Touch the SET key: the display will show the label " <b>yy</b> " followed by the last two figures of the year.
4.	۲,		Touch the UP or DOWN key within 15 s to set the year.
5.	Repea	t actions 3. a	nd 4. to set the next labels.
	LAB.	DESCRIPTIO	ON OF THE NUMBERS FOLLOWING THE LABEL
	n	month (01	. 12)
	d	day (01 3	1)
	h	time (00 2	23)
	n minute (00 59)		
6.	≙ SET		Touch the SET key: the display will show the label for the day of the week.
7.	f		Touch the UP or DOWN key within 15 s to set the day of the week.
	LAB.	DESCRIPTION	N
	Mon	Monday	
	tuE	Tuesday	
	UEd	Wednesday	
	thu Thursday Fri Friday		
	Sat	Saturday	
	Sun	Sunday	
8.	≙ :	SET	Touch the SET key: the device will exit the procedure.
9.	э. [		Touch the ON/STAND-BY key to exit the procedure beforehand.

### 7.3 Restoring factory settings (default)

¢,	N.B. - check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS.				
1.	<b>≙</b> SET	Touch the SET key for 4 s: the display will show the label " $\ensuremath{\text{PA}}$ ".			
2.	- SET	Touch the SET key.			
3.	✓	Touch the UP or DOWN key within 15s to set "149".			
4.	- SET	Touch the SET key (or take no action for 15s): the display will show the label "dEF".			
5.	- SET	Touch the SET key.			
6.	✓	Touch the UP or DOWN key within 15s to set "1".			
7.	Touch the SET key (or take no action for 15 s): the display will show "" flashing for 4 s, after which the device will exit the procedure.				
8.	Disconnect the device from the power supply.				
9.	<b>≜</b> SET	Touch the SET key for 1s before action 6 to exit the procedure beforehand.			

	No.	PAR.	DEF.	SETPOINT	MIN MAX.
	1	SP1	55.0	setpoint in economy mode	r3 r4
	2	SP2	65.0	setpoint in comfort mode	r1 r2
				,	
	3	SP3	45.0	overboost activation threshold	10 °C/°F r2
0-	4	SP5	55.0	heat pump switch-off threshold	r1 SP2
հե	5	SP6	75.0	photovoltaic system setpoint	40 100 °C/°F
	6	SP7	5.0	setpoint in antifreeze mode	0 40 °C/°F
	7	SP8	40.0	,	
			-	setpoint in green mode	0 100 °C/°F
	8	SP9	-7.0	cold evaporator alarm threshold	-25 25 °C/°F
	9	SPA	-25	evaporator failure alarm thresh-	-50 25 °C/°F
				old	
	No.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
		CA1	0.0		
	10	1		DHW tank upper probe offset	-25 25 °C/°F
	11	CA2	0.0	DHW tank lower probe offset	-25 25 °C/°F
	12	CA3	0.0	evaporator probe offset	-25 25 °C/°F
	13	PO	1	type of probe	0 = PTC $1 = NTC$
				51 1	2 = Pt 1000
	14	P1	1	anable desimal point °C	
		1	-	enable decimal point °C	
	15	P2	0	temperature measurement unit	$0 = °C \qquad 1 = °F$
	16	P3	1	enabled probes	0 = DHW tank upper probe
					<ul> <li>+ high pressure input</li> </ul>
					1 = DHW tank upper and
•					lower probe
O.	17	P4	2	evaporator probe function	0 = disabled (defrost every
-			-		d18 minutes)
					,
					1 = defrost activation and
					defrost end
					2 = defrost activation
	18	P5	0	value displayed	0 = DHW tank upper tem-
					perature
					1 = setpoint in comfort
					mode
					2 = DHW tank lower tem-
					perature
		ļ			3 = evaporator temperature
	19	P8	5	display refresh time	0 250 s: 10
	No.	PAR.	DEF.	REGULATION	MIN MAX.
	20	r0	3.0	setpoint differential	1 30 °C/°F
	21	r1	40.0	minimum setpoint in comfort	10 °C/°F r2
				mode	
	22	r2	70.0	maximum setpoint in comfort	r1 100 °C/°F
	22	12	10.0	maximum setpoint in connort	11 100 C/ F
-	23	r3	40.0	minimum setpoint in economy	10 °C/°F r4
		ļ		mode	
-	24	r4	55.0	maximum setpoint in economy	r3 100 °C/°F
				mode	
	25	r5	0	enable setpoint blocking in	0 = no 1 = yes
				economy and comfort modes	
				heater threshold in comfort	
					0 50 °C/°F
	26	r6	15.0	mode	
	26 27	r6 r7	15.0 15.0	heater threshold differential in	
	27	r7	15.0	heater threshold differential in comfort mode	1 30 °C/°F
	27 No.	r7 PAR.	15.0 DEF.	heater threshold differential in comfort mode COMPRESSOR	1 30 °C/°F MIN MAX.
	27	r7	15.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow-	1 30 °C/°F
	27 No.	r7 PAR.	15.0 DEF.	heater threshold differential in comfort mode COMPRESSOR	1 30 °C/°F MIN MAX.
	27 No.	r7 PAR.	15.0 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow-	1 30 °C/°F MIN MAX. 0 240 min
	27 No. 28	r7 PAR. C0	15.0 DEF. 5	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on	1 30 °C/°F MIN MAX. 0 240 min
	27 No. 28 29	r7 PAR. C0 C1	15.0 DEF. 5 5	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor	1 30 °C/°F MIN MAX. 0 240 min 0 240 min
	27 No. 28 29 30	r7 PAR. C0 C1 C2	15.0 DEF. 5 5 5	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time	1 30 °C/°F MIN MAX. 0 240 min 0 240 min 0 240 min
	27 No. 28 29 30 31	r7 PAR. C0 C1 C2 C3	15.0 DEF. 5 5 5 0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 s
	27 No. 28 29 30	r7 PAR. C0 C1 C2	15.0 DEF. 5 5 5	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte-	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 240 s           0 999 h x 100
	27 No. 28 29 30 31 32	r7 PAR. C0 C1 C2 C3 C10	15.0 DEF. 5 5 5 0 400	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 999 h x 100           0 = disabled
	27 No. 28 29 30 31	r7 PAR. C0 C1 C2 C3	15.0 DEF. 5 5 5 0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte-	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 240 s           0 999 h x 100
	27 No. 28 29 30 31 32	r7 PAR. C0 C1 C2 C3 C10	15.0 DEF. 5 5 5 0 400	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 999 h x 100           0 = disabled
	27 No. 28 29 30 31 32	r7 PAR. C0 C1 C2 C3 C10	15.0 DEF. 5 5 5 0 400	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con-	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 999 h x 100           0 = disabled
	27 No. 28 29 30 31 32 33	r7 PAR. C0 C1 C2 C3 C10 C11	15.0 DEF. 5 5 0 400 120	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 999 h x 100           0 = disabled           0 999 min
	27 No. 28 29 30 31 32 33 33 34	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12	15.0 DEF. 5 5 5 0 400 120 60	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control	1 30 °C/°F         MIN MAX.         0 240 min         0 999 h x 100         0 = disabled         0 999 min         0 240 s
	27 No. 28 29 30 31 32 33	r7 PAR. C0 C1 C2 C3 C10 C11	15.0 DEF. 5 5 0 400 120	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green	1 30 °C/°F           MIN MAX.           0 240 min           0 240 min           0 240 min           0 240 s           0 999 h x 100           0 = disabled           0 999 min
	27 No. 28 29 30 31 32 33 33 34 35	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13	15.0 DEF. 5 5 0 400 120 60 20	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-onf time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 s
	27 No. 28 29 30 31 32 33 33 34	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12	15.0 DEF. 5 5 5 0 400 120 60	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 240 min
<b>41</b>	27 No. 28 29 30 31 32 33 33 34 35 36	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C12 C13 C14	15.0 DEF. 5 5 5 400 120 60 20 20	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 240 min         -1 = disabled
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.
	27 No. 28 29 30 31 32 33 33 34 35 36	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C12 C13 C14	15.0 DEF. 5 5 5 400 120 60 20 20	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 min         1 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 min         1 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 s         0 240 s         0 240 min         1 240 min         1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped
	27 No. 28 29 30 31 32 33 33 34 35 36 No.	r7           PAR.           C0           C1           C2           C3           C10           C11           C12           C13           C14           PAR.	15.0 DEF. 5 5 0 400 120 60 20 20 DEF.	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 s         0 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F
	27 No. 28 29 30 31 32 33 34 35 36 No. 37	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C13 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 DEF. 2	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 50 °C/°F         0 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of         EV3H94N9PXRX01 and
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 s         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38	r7 PAR. C0 C1 C2 C3 C10 C11 C11 C12 C13 C14 PAR. d1	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 DEF. 2 3.0	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of         EV3H94N9PXRX01 and         EV3H94N9VXRX01
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38 39	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C13 C14 PAR. d1 d2 d3	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 20 20 20 3.0 30	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-on filme minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost defrost end threshold defrost duration	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of         EV3H94N9PXRX01 and         EV3H94N9VXRX01
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38 39	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C13 C14 PAR. d1 d2 d3	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 20 20 20 3.0 30	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost defrost end threshold defrost duration	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of         EV3H94N9PXRX01 and         EV3H94N9VXRX01
	27 No. 28 29 30 31 32 33 34 35 36 No. 37 38 39 40	r7 PAR. C0 C1 C2 C3 C10 C11 C12 C13 C14 C14 C14 d1 d1 d2 d3	15.0 DEF. 5 5 0 400 120 60 20 20 20 20 20 20 20 20 3.0 30	heater threshold differential in comfort mode COMPRESSOR compressor on delay from pow- er-on minimum time between two power-ons of compressor minimum compressor-off time minimum compressor-on time compressor hours for mainte- nance interval for cold evaporator con- trol compressor-on delay from fan on for cold evaporator control compressor-on delay from green multi-purpose input reset compressor-on consecutive time for evaporator failure control DEFROST type of defrost defrost end threshold defrost duration	1 30 °C/°F         MIN MAX.         0 240 min         0 240 min         0 240 min         0 240 s         0 999 h x 100         0 = disabled         0 240 s         0 240 s         0 240 s         0 240 min         -1 240 min         -1 = disabled         MIN MAX.         0 = electric         1 = hot gas         2 = compressor stopped         3 = hot gas balancing the pressure         -50 50 °C/°F         0 99 min         0 = defrost disabled         If P4 = 1, maximum duration         default 0 in map 3 of         EV3H94N9PXRX01 and         EV3H94N9YXRX01         -50 50 °C/°F

CONFIGURATION PARAMETERS

8

### EVCO S.p.A. | EV3H94 | Instruction sheet ver. 1.0 | Code 1043H94E104 | Page 4 of 5 | PT 05/21

	No.	PAR.	DEF.	ALARMS	MIN MAX.	I T
	42	AO	0	select value for low temper-	0 = DHW tank upper tempera-	
				ature alarm	ture 1 = DHW tank lower tempera-	
					ture	
					2 = evaporator temperature	-
	43	A1	10.0	low temperature alarm threshold	0 50 °C/°F	
	44	A2	0	low temperature alarm type	0 = disabled	
	45	A3	0	select value for high tem-	1 = absolute 0 = DHW tank upper tempera-	
			-	perature alarm	ture	
					1 = DHW tank lower tempera- ture	
					2 = evaporator temperature	
~	46	A4	90.0	high temperature alarm	0 199 °C/°F	
				threshold	default 75.0 in EV3H94N9PXRX01 and	
					EV3H94N9VXRX01	
	47	A5	0	high temperature alarm type	0 = disabled 1 = absolute	Id
	48	A6	120	high temperature alarm de-	0 240 min	
	49	A7	15	lay from power-on	0 240 min	Γ
	47	A7	15	high/low temperature alarm delay	0 240 mm	
	50	A10	120	power failure duration for	0 240 min	9 A
	51	A11	2.0	alarm recording high/low temperature alarm	1 30 °C/°F	CODE
				reset differential		Pr1
<b>S</b>	No. 52	PAR. F0	DEF.	FAN enable fan	MIN MAX. 0 = no 1 = yes	Pr2
-	No.	PAR.	DEF.	ANTI-LEGIONELLA	MIN MAX.	
	53	HO	30	anti-legionella interval	0 99 d (days)	Pr3
				anti-legionella thermal	0 = none	AL
S /	54	H1	70.0	threshold	10 199 °C/°F	AH
	55	H3	2	anti-legionella thermal threshold maintenance dura-	0 240 min	PF
				tion	0 = function disabled	LHP
	No.	PAR.	DEF.	DIGITAL INPUTS	MIN MAX.	
	56	iO	0	multi-purpose input function	0 = disabled 1 = pressure switch	HP
					2 = green	FiL
	57	i2	0	compressor-on delay from pressure switch alarm reset	0 120 min	
	58	i3	0	enable photovoltaic system	0 = no 1 = yes	UtL
	59	i4	1	photovoltaic system input activation	0 = with contact closed 1 = with contact open	
	60	i5	1	high pressure input activa-	0 = with contact closed	10 T
	00	15	•	tion	1 = with contact open	Purpose
<b>,</b>	61	i8	3	number of pressure switch	0 15	Constru
	01	10	5	alarms for unit blocked alarm	0 = disabled	Contain
	62	i9	240	counter reset time for pres-	1 999 min	Categor Measur
		10		sure switch alarms		75.0 x
	60		24	pressure switch alarm delay	0 240 sx10	
	63	i10		from compressor-on		5/16 in Mountir
	63 64	i11	60	time pre opening hot gas	0 240 s	Mountir
			60 0		0 240 s 0 = no 1 = yes	Mountir Degree
	64	i11		time pre opening hot gas defrost valve	0 = no 1 = yes default 1 in	Mountir Degree Connec fixed so
	64	i11		time pre opening hot gas defrost valve fan off during pressure	0 = no 1 = yes	Mountin Degree Connec fixed sc mm <sup>2</sup>
	64 65 No.	i11 i12 PAR.	O DEF.	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX.	Mountir Degree Connec fixed so
×	64	i11 i12	0	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2)	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i
*	64 65 No.	i11 i12 PAR.	O DEF.	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX.	Mountin Degree Connec fixed so mm <sup>2</sup> Maximu power s
*	64 65 No. 66 67 N.	i11 i12 PAR. u0 u9 PAR.	O DEF. 1 DEF.	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes MIN MAX.	Mountin Degree Connec fixed so mm <sup>2</sup> Maximu power s digital i Operati
*	64 65 No. 66	i11 i12 PAR. u0 u9	0 DEF. 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes	Mountir Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati
*	64 65 No. 66 67 N. 68 69	i11 i12 PAR. u0 u9 PAR. Hr0 Hd1	0 DEF. 1 DEF. 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day	$0 = no \qquad 1 = yes$ default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) $0 = no \qquad 1 = yes$ MIN MAX. $0 = no \qquad 1 = yes$ 1 = with On1 e OF1 2 = with On2 e OF2	Mountin Degree Connec fixed so mm <sup>2</sup> Maximu power s digital i Operati Storage
*	64 65 No. 66 67 N. 68	i11 i12 PAR. u0 u9 PAR. Hr0	0 DEF. 1 DEF. DEF.	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon-	0 = no   1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no   1 = yes MIN MAX. 0 = no   1 = yes 1 = with On1 e OF1	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital ii Operati Storage Operati
×	64 65 No. 66 67 N. 68 69	i11 i12 PAR. u0 u9 PAR. Hr0 Hd1	0 DEF. 1 DEF. 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes MIN MAX. 0 = no 1 = yes 1 = with On1 e OF1 2 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On1 e OF1 2 = with On1 e OF1	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Pollutio Complia RoHS 2
*	64 65 66 67 N. 68 69 70 70 71	II1 II2 PAR. UO PAR. HrO Hd1 Hd2 Hd3	0 DEF. 1 DEF. 1 1 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Wednesday	$0 = no \qquad 1 = yes$ default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) $0 = no \qquad 1 = yes$ MIN MAX. $0 = no \qquad 1 = yes$ 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On1 e OF1 2 = with On2 e OF2	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital ii Operati Storage Operati
×	64 65 66 66 67 N. 68 69 70 71 71	i11 i12 PAR. u0 PAR. Hr0 Hd1 Hd2 Hd3 Hd4	0 DEF. 1 DEF. 1 1 1 1 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Wednesday time for switch on on Thurs- day	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes MIN MAX. 0 = no 1 = yes MIN MAX. 0 = no 1 = yes 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati RoHS 2 EMC 20 Classific to prote
×	64 65 66 67 N. 68 69 70 70 71	II1 II2 PAR. UO PAR. HrO Hd1 Hd2 Hd3	0 DEF. 1 DEF. 1 1 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Wednesday	0 = n0 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = n0 (defrost on K2) 1 = yes (defrost on K4) 0 = n0 1 = yes MIN MAX. 0 = n0 1 = yes MIN MAX. 0 = n0 1 = yes 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On1 e OF1	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati RoHS 2 EMC 20 Classific
×	64 65 66 66 67 N. 68 69 70 71 71	i11 i12 PAR. u0 PAR. Hr0 Hd1 Hd2 Hd3 Hd4	0 DEF. 1 DEF. 1 1 1 1 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Wednesday time for switch on on Thurs- day	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes MIN MAX. 0 = no 1 = yes MIN MAX. 0 = no 1 = yes 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Storage Operati RoHS 2 EMC 20 Classific to prote Power s Earthing
×	64 65 66 67 N. 68 69 70 71 71 72 73 74	i11           i12           PAR.           u0           u9           PAR.           Hr0           Hd1           Hd2           Hd3           Hd4           Hd5           Hd6	0 DEF. 1 DEF. 1 1 1 1 1 1 1 2	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Turs- day time for switch on on Thurs- day time for switch on on Thurs- day time for switch on on Friday time for switch on on Friday	$0 = no \qquad 1 = yes$ default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) $0 = no \qquad 1 = yes$ MIN MAX. $0 = no \qquad 1 = yes$ 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On1 = OF1 2 = with On2 = OF2 1 = with On1 = OF1 2 = with On2 = OF2	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Storage Operati Pollutio Complia RoHS 2 EMC 20 Classific to prote Power s
× •	64 65 66 67 N. 68 69 70 71 71 72 73	i11 i12 PAR. u0 u9 PAR. Hr0 Hd1 Hd2 Hd3 Hd4 Hd5	0 DEF. 1 DEF. 1 1 1 1 1 1 1 1	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Tues- day time for switch on on Thurs- day time for switch on on Thurs- day time for switch on on Friday time for switch on on Satur-	0 = no 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = no (defrost on K2) 1 = yes (defrost on K4) 0 = no 1 = yes MIN MAX. 0 = no 1 = yes 1 = with On1 e OF1 2 = with On1 e OF1 1 = with On1 e OF1 2 = with On1 e OF1 2 = with On1 e OF1 3 = with On1 e OF1 4 = with On1 e OF1 3 = with On1 e OF1 4 = with On1	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Storage Operati RoHS 2 EMC 20 Classific to prote Power s Earthing
× 9	64 65 66 67 N. 68 69 70 71 71 72 73 74	i11           i12           PAR.           u0           u9           PAR.           Hr0           Hd1           Hd2           Hd3           Hd4           Hd5           Hd6	0 DEF. 1 DEF. 1 1 1 1 1 1 1 2	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Thurs- day time for switch on on Friday time for switch on on Satur- day	0 = n0 1 = yes default 1 in EV3H94N9PXRX01 and EV3H94N9VXRX01 MIN MAX. 0 = n0 (defrost on K2) 1 = yes (defrost on K4) 0 = n0 1 = yes MIN MAX. 0 = n0 1 = yes MIN MAX. 0 = n0 1 = yes 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 = with On1 e OF1 2 = with On2 e OF2 1 =	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Pollutio Complia RoHS 2 EMC 20 Classific to prote Power s Earthing Rated in Over-vo
×	64 65 66 67 N. 68 69 70 71 72 73 74 75	II1 II2 PAR. U0 PAR. Hr0 Hd1 Hd2 Hd3 Hd4 Hd5 Hd6 Hd7	0 DEF. 1 1 1 1 1 1 1 1 1 2 2	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Tues- day time for switch on on Thurs- day time for switch on on Friday time for switch on on Friday time for switch on on Satur- day time for switch on on Satur- day	$\begin{array}{l} 0 = no & 1 = yes \\ default 1 in \\ EV3H94N9PXRX01 and \\ EV3H94N9VXRX01 \\ \hline \\ MIN MAX. \\ 0 = no (defrost on K2) \\ 1 = yes (defrost on K4) \\ 0 = no & 1 = yes \\ \hline \\ MIN MAX. \\ 0 = no & 1 = yes \\ \hline \\ MIN MAX. \\ 0 = no & 1 = yes \\ \hline \\ I = with On1 e OF1 \\ 2 = with On1 e O$	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Storage Operati RoHS 2 EMC 20 Classific to prote Pollutio Complia RoHS 2 EMC 20 Classific to prote Pollutio Complia RoHS 2
× Э	64 65 66 67 N. 68 69 70 71 72 73 74 73 74 75 76	i11         i12         PAR.         u0         u9         PAR.         Hr0         Hd1         Hd2         Hd3         Hd4         Hd5         Hd6         Hd7         HOF1         HOF1	0 DEF. 1 1 DEF. 1 1 1 1 1 1 2 2 	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Friday time for switch on on Friday time for switch on on Satur- day time for switch on on Satur- day time for switch on on Sun- day time for time band 1 on	$\begin{array}{l} 0 = no  1 = yes \\ default 1 in \\ EV3H94N9PXRX01 and \\ EV3H94N9VXRX01 \\ \hline \\ MIN MAX. \\ 0 = no (defrost on K2) \\ 1 = yes (defrost on K4) \\ 0 = no  1 = yes \\ \hline \\ MIN MAX. \\ \hline \\ 0 = no  1 = yes \\ \hline \\ MIN MAX. \\ \hline \\ 0 = no  1 = yes \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 1 = with On1 e OF1 \\ 2 = with On2 e OF2 \\ \hline \\ 0 = 0:0 23:59 h:min \\ \hline \\ 0:00 = disabled \\ \hline \end{array}$	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Pollutio Complia RoHS 2 EMC 20 Classific to prote Power s Earthin Rated in Over-vc Softwar Analogu
×	64 65 66 67 N. 68 69 70 71 71 72 73 74 75 76	i11 i12 PAR. u0 U9 PAR. Hr0 Hd1 Hd2 Hd3 Hd4 Hd5 Hd6 Hd7 HOn1	DEF. 1 1 DEF. 1 1 1 1 1 1 2 2 	time pre opening hot gas defrost valve fan off during pressure switch/unit blocked alarm DIGITAL OUTPUTS enable relay K2 and relay K4 inversion enable alarm buzzer CLOCK enable clock time for switch on on Mon- day time for switch on on Tues- day time for switch on on Tues- day time for switch on on Turs- day time for switch on on Thurs- day time for switch on on Friday time for switch on on Friday time for switch on on Satur- day time for switch on on Satur- day time for switch on on Satur- day	$\begin{array}{l} 0 = no & 1 = yes \\ default 1 in \\ EV3H94N9PXRX01 and \\ EV3H94N9VXRX01 \\ \hline \\ MIN MAX. \\ 0 = no (defrost on K2) \\ 1 = yes (defrost on K4) \\ 0 = no & 1 = yes \\ \hline \\ MIN MAX. \\ 0 = no & 1 = yes \\ \hline \\ MIN MAX. \\ 0 = no & 1 = yes \\ \hline \\ 1 = with 0n1 e OF1 \\ 2 = with 0n2 e OF2 \\ 1 = with 0n1 e OF1 \\ 2 = with 0n2 e OF2 \\ 1 = with 0n1 e OF1 \\ 2 = with 0n2 e OF2 \\ 1 = with 0n1 e OF1 \\ 2 = with 0n2 e OF2 \\ 1 = with 0n1 e OF1 \\ 2 = with 0n2 e OF2 \\ 1 = with 0n2 e O$	Mountin Degree Connec fixed sc mm <sup>2</sup> Maximu power s digital i Operati Storage Operati Pollutio Complia RoHS 2 EMC 20 Classific to prote Power s Earthin Rated in Over-vc Softwar Analogu

	80 Ant time antilegionella on 00:00 23:59 h:min					
	80	Ant	Ant time antilegionella on		00:00 23:59 h:min 00:00 = disabled	
	N.	PAR.	DEF.	SAFETIES	MIN MAX.	
	81	PA1	426	level 1 password	-99 999	
$\mathbf{O}$	82	PA2	824	level 2 password	-99999	
	N.	PAR.	DEF.	DATA-LOGGING EVLINK	MIN MAX.	
	83	bLE	1	enable Bluetooth	0 = no 1 = sì	
					>1 reserved	
	84	rE0	15	data-logger sampling inter-	0 240 min	
				val		
LOG	85	rE1	1	recorded temperature	0 = nessuna	
					1 = DHW tank upper	
					2 = DHW tank lower	
					3 = evaporator	
					4 = DHW tank upper and lower	
					5 = tutte	
	N.	PAR.	DEF.	MODBUS	MIN MAX.	
	86 LA 247 MODBUS address		MODBUS address	1 247		
	87	Lb	2	MODBUS baud rate	0 = 2.400 baud	
ld					1 = 4.800 baud	
Iu					2 = 9.600 baud	
					3 = 19.200 baud	
	88	LP	2	parity	0 = none $1 = odd$	
					2 = even	
9	ALARM	S				
CODE	ODE DESCRIPTION RESET TO CORRECT					

DESCRIPTION	RESET	TO CORRECT	
DHW tank upper probe	automatic	- check PO	
alarm		<ul> <li>check probe integrity</li> </ul>	
DHW tank lower probe	automatic	<ul> <li>check electrical connection</li> </ul>	
alarm			
evaporator probe alarm	automatic		
clock alarm	manual	set date, time and day of the week	
low temperature alarm	automatic	check A0, A1 and A2	
high temperature alarm	automatic	check A3, A4 and A5	
power failure alarm	manual	- touch a key	
		- check electrical connection	
pressure switch/unit	automatic/	<ul> <li>switch the device off and on</li> </ul>	
blocked alarm	manual	- check i0, i8 and i9	
high pressure alarm	manual	- switch the device off and on	
		- check P3	
compressor maintenance	automatic	check C10	
alarm		by silencing the buzzer you delete the	
		compressor functioning hours	
evaporator failure alarm	manual	- switch the device off and on	
		- check SPA and C14	
	DHW tank upper probe alarm DHW tank lower probe alarm evaporator probe alarm clock alarm low temperature alarm high temperature alarm power failure alarm pressure switch/unit blocked alarm high pressure alarm compressor maintenance alarm	DHW tank upper probe automatic alarm automatic alarm automatic alarm automatic evaporator probe alarm automatic clock alarm manual low temperature alarm automatic power failure alarm manual pressure switch/unit automatic/ blocked alarm manual high pressure alarm manual compressor maintenance automatic	

### TECHNICAL SPECIFICATIONS

	Purpose of the	control device		function controller	
	Construction o	f the control dev	ice	built-in electronic device	
	Container			black, self-extinguishing.	
-	Category of he	at and fire resist	ance	D.	
	Measurements			-	
-	75.0 x 33.0 x	59.0 mm (2 15/	16 x 1 5/16 x 2	75.0 x 33.0 x	81.5 mm (2 15/16 x 1 5/16 x
	5/16 in) with f	ixed screw termi	nal blocks	3 3/16 in) with plug-in screw terminal blocks	
-	Mounting meth	nods for the cont	rol device	to be fitted to a panel, snap-in brackets pro-	
				vided	
-	Degree of prot	ection provided	by the covering	IP65 (front)	
	Connection me	ethod			
	fixed screw ter	minal blocks for	wires up to 2.5	plug-in screw	terminal blocks for wires up to
	mm²			2.5 mm <sup>2</sup> (on r	equest).
-	Maximum perr	nitted length for	connection cable	s	
-	power supply:	10 m (32.8 ft)		analogue inpu	ts: 10 m (32.8 ft)
	digital inputs:	10 m (32.8 ft)		digital outputs	: 10 m (32.8 ft).
-	Operating tem	perature		From 0 to 55 °C (from 32 to 131 °F)	
-1	Storage tempe	erature		from -25 to 70 °C (from -13 to 158 °F)	
-1	Operating hum	nidity		relative humidity without condensate from	
-				10 to 90%	
	Pollution statu	s of the control o	levice	2.	
-	Compliance:				
-	RoHS 2011/65	/EC	WEEE 2012/19/	/EU REACH (EC) Regulation no. 1907/2006	
	EMC 2014/30/	EU		LVD 2014/35/	EU
•	Classification	of the control d	evice according	class II acco	ording to standard EMC EN
	to protection fi	rom electrical sh	ock	60730-1 §2.7.5.	
-	Power supply			115 230 VAC (+10% -15%), 50/60 Hz (±3	
				Hz), max. 3.2 VA insulated	
-	Earthing meth	ods for the contr	ol device	none	
	Rated impulse	-withstand voltag	ge	2.5 KV	
1	Over-voltage of	ategory		П.	
	Software class	and structure		Α.	
-1	Analogue input	ts		2 for PTC, NTC or Pt 1000 probes (DHW tank	
_				upper probe and evaporator probe)	
1	PTC probes	Sensor type:		KTY 81-121 (9	90 Ω @ 25 °C, 77 °F)
-		Measurement f	ïeld:	from -50 to 15	60 °C (from -58 to 302 °F)
		Resolution:		0.1 °C (1 °F).	
-	NTC probes	Sensor type:		ß3435 (10 K□	Ω@25°C,77°F)
		Measurement field:		from -40 to 105 °C (from -40 to 221 °F)	
_		Resolution:		0.1 °C (1 °F).	

EVCO S.p.A.   EV3H94	Instruction sheet ver. 1.0	0   Code 1043H94E104	Page 5 of 5   PT 05/21

Етео э.р.н.   Ет		T Sheet ver. 1.0   V	Code 1043H94E104   Page 5 of 5   PT 05/21		
Pt 1000	Measurement field:		from -100 to 650 °C (from -148 to 999 °F)		
probes					
	Resolution:		0.1 °C (1 °F).		
Digital inputs			2 dry contact (photovoltaic and multi-		
° '			purpose input)		
Dry contact		Contact type:		5 VDC, 1.5 mA	
		Power supply:		none	
		Protection:		none.	
Other inputs		can be configur	ed for analogue	e input (DHW tank lower probe)	
		or for digital input (high pressure input)		ire input)	
Digital outputs		4 with electro-mechanical relay (compressor, defrost, fans			
		and heaters)			
Compressor re	lay (K1)		SPST, 16 A res	s. @ 250 VAC	
Relay K2			SPST, 8 A res.	@ 250 VAC	
Fan relay (K3)			SPST, 5 A res. @ 250 VAC		
Relay K4			SPST, 5 A res. @ 250 VAC		
Type 1 or Type	2 Actions		Type 1		
Additional feat	ures of Type 1	or Type 2 ac-	C.		
tions					
Displays	Displays			custom display, 3 digit, with function icons	
Alarm buzzer			Built-in		
Communication ports			1 TTL MODBUS slave port for EVconnect app,		
			EPoCA remote monitoring system or for BMS		



N.B.

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

This document and the solutions contained therein are the intellectual property of EVCO and thus protected by the Italian Intellectual Property Rights Code (CPI). EVCO imposes an absolute ban on the full or partial reproduction and disclosure of the content other than with the express approval of EVCO. The customer (manufacturer, installer or end-user) assumes all responsibility for the configuration of the device.

EVCO accepts no liability for any possible errors in this document and reserves the right to make any changes, at any time without prejudice to the essential functional and safety features of the equipment.

