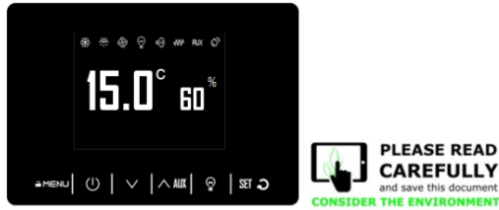


# EVJ526N2 Temperature and Humidity controller for display or meat ageing cabinets, 2.8" display with touch keys



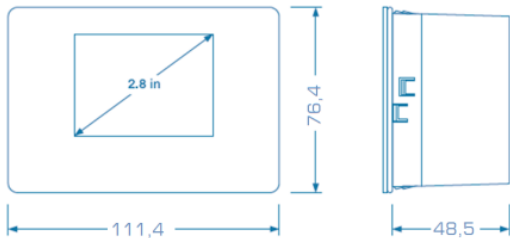
**PLEASE READ CAREFULLY**  
and save this document  
**CONSIDER THE ENVIRONMENT**

## 1. ENGLISH

- Temperature and humidity controller
- Sanitation process for UV Lamp or Ozone generators with manual or cycling control.
- Suitable for Humidity and temperature EVCO EVHTP500 or EVHTP520 probes;
- 12Vac/dc power supply
- Option Real time clock RTC and memory for data logging and BLE for communication with APP EVconnect (Android).
- Door switch or configurable digital input
- 6 configurable relay outputs, 16 or 30 A res. @ 250 VAC compressor relay
- Alarm Buzzer
- TTL communication port for optional RS485 and RTC external interface or EVLINK / BLE (Cap. First Handling).

## 2. DIMENSION AND INSTALLING

Dimensions in 11,4 x 76,4 x 4,85mm (4 1/4 x 2 7/8 in): Front Panel mounting,



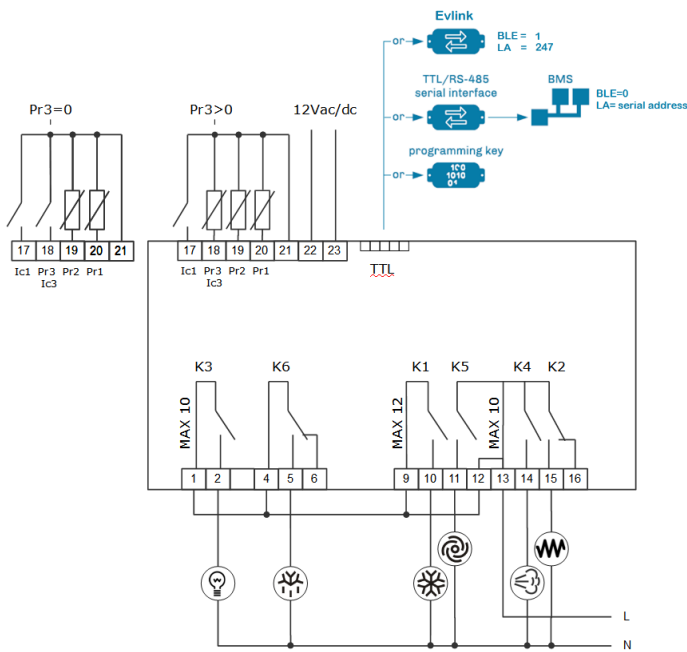
### INSTALLATION PRECAUTIONS

- 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.

## 3. ELECTRICAL CONNECTION

**BE AWARE**

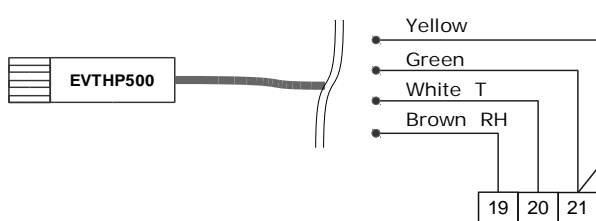
- Use cables of an adequate section for the current running through them.
- To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables.
- Use TVHTP500 probe, the unit does not support 4...20mA or 0.10V humidity probes.



- Default values**
- K1 = 30A or 16= compressor
  - K2 = 8A= Heating
  - K3 = 16A= Light
  - K4 = 8A= Humidity
  - K5 = 5A= Evaporator Fan
  - K6 = 8A= Defrost
  - Pr1= Cabinet probe
  - Pr2= Humidity EVCO probe EVHTP500
  - Pr3 / ic3 = Evaporator / Configurable / Digital input
  - ic1= Door switch or configurable

EVCO transformer model ECTSFB001 230V/12vac 5,6VA (non included)

### EVHTP500/EVHTP520 PROBE CONNECTION



### PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- Moving the device from cold to warm places, there may be internal condensing. Wait about an hour before switching on the power.
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section *TECHNICAL SPECIFICATIONS*.
- Disconnect the power supply before doing any type of maintenance.
- Do not use the device as safety device.

- For repairs and for further information, contact the EVCO sales network.

## 4. FIRST HANDLING

1. Install following the instructions given in the section *DIMENSION AND INSTALLING*.
2. Power up the device as shown in the section *ELECTRICAL CONNECTION*.
3. **Check the value of parameter P0.** Configure the device output with relay parameters uc1..uc6, input parameters Pr2 Pr3 e ic1 and uc3;
4. Then check if the remaining settings are appropriate;
5. Disconnect the device from the mains supply.
6. Make the electrical connection as shown in the section *ELECTRICAL CONNECTION* without powering up the device.
7. To connect the unit to an RS-485 network connect the interface **EVIF22TSX** or **EVIF23TSX** (With RTC). A network communication is alternative to local transmission and data recording, set BLE=0.
8. Power up the device.

### Device ON/OFF



Touch the ON-OFF key for 2", the device alternatively turns On or Off.

When the device is off, the display shows the off icon for some seconds. Then it turns to black for energy saving.

## 5. USER INTERFACE AND MAIN KEY FUNCTIONS



LED	ON	OFF	BLINKING
	Cooling request De-humidify request	compressor Off	- Protection delay time
	Defrost	-	- Defrost delay time - Dripping
	Evaporator fans on	Evaporator fan off	Evaporator fan delay time
	Humidify request Humidify relay		
	De-Humidify request de-Humidify relay		Delay when de-humidify with compressor.
	Heating request Heating relay De-Humidify request Compressor+heating		
HACCP	HACCP Alarm logged	-	New alarm logged
	Energy saving	-	-
	Maintenance	-	Collegamento remoto
C/F/%	Unit of measurement	-	-
AUX	Auxiliary function Auxiliary relay	Auxiliary not active	
	Light on by key	Light off	Light on by door open
			Active alarm
	Probe value above the or under the setpoint.		
	Keyboard status		
	Open Door	Door closed	
	Running Cycle	No cycle running	Cycle in stand-by, another function is running.
UV	Sanitation ON with UV Lamp		Sanitation interval.

To change the unit between degrees C and F it is required to re-program the temperature parameters.

## 6. KEY COMMANDS

Key command functions can be direct or delayed:

LED	Direct	Delayed: press 2 seconds
MENU		To access the MENU functions - Language - Parameters - Probe Value .....
	Backward from a Menu	Turns On or Off instantaneously the unit regulation, display turns to black after a minute.
V	Reduce a value or move down the prompt in a list of elements.	
AUX	Increase a value or move up the prompt in a list of elements. To access the AUX functions	
	Turn On or Off manually the light output relay.	
SET	To change or confirm the setpoint, Select or confirm the element or a value.	

### LOCK UNLOCK THE KEYBOARD

After a minute without operating the keyboard is automatically locked

Push any keys for two seconds to unlock the keyboard

## 7. AUX FUNCTIONS

User auxiliary manual commands are available touching the **AUX** key:



CONFIRM: Select an item with up and down keys, press **SET** to confirm or to abort:



Some functions can be disabled by repeating the same procedure (Manual Energy Saving). Other functions will proceed following their process until the end of the function (manual defrost).

Some functions may not be visible if the unit status is not running or the model does not support the function itself.

**Manual defrost:** It executes a defrost if the evaporator probe is present "Pr3=5" and the evaporator condition allows it. If no evaporator probe is configured the defrost is time based.

**Sanitation:** If enabled allows to run a manual or a time based cycle process for UV Lamp (regulation not suspended) or Ozone generators (regulation suspended).

**Over temp:** it changes the SET temperature to "SET+/-r6" value for the time "r7". With r7=0 the function is disabled. A defrost can be postponed with d4.

**Extra rH:** it changes the humidity SET2 into "h4" value for the time set in "h5". With "h5=0" the function is disabled.

**Energy Saving:** Enabling the energy saving function changes the SET1 into "SET1 + r4 differential". Repeat the operation to disable the function.

**Aux:** available if the auxiliary output is configured as manual control "u6".

### LIGHT COMMAND KEY

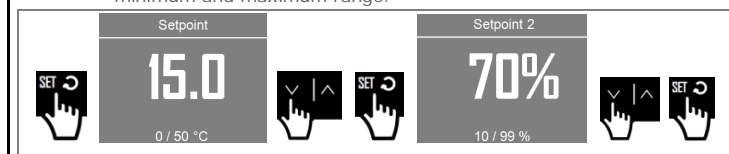
Touch once the light command to turn ON or OFF the light.

The light output turns on by opening the door if ic1=7/8/9.

## 8. CHANGING THE SETPOINTS

It is possible to change the temperature and humidity setpoint values as follow:

1. Push **SET** key, the temperature setpoint appears with the available minimum and maximum range.



2. Push up or down arrows to change the value and then **SET** to confirm;
3. The humidity SET2 appears;
4. Push up or down arrows to change the value and then **SET** to confirm to exit.

INTERMEDIATE EXIT: wait 5 seconds or push to exit and abort the changed value on the display.

## 9. SANITATION PROCESS

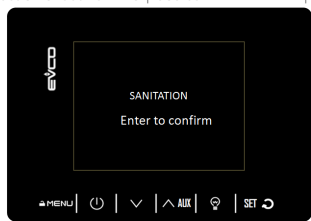
This function can be configured both UV lamp or Ozone generators.

### START THE SANITATION IN STANDBY

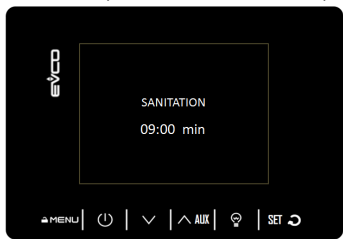
if enabled by parameters the unit allows to manually start a Sanitation process. When the unit is in stand-by:



Confirm with **SET** key or push key to abort



If confirmed the process countdown is displayed:



**DOOR OPEN**  
the process is interrupted until the door is closed again.

**END OF THE PROCESS**  
When the countdown is expired all outputs are turned off and the display turns to the stand-by page.

**MANUAL STOP**  
Push key for 3 seconds.

**BLACKOUT**  
If a blackout occurs the process will be repeated as soon as the power supply is back.

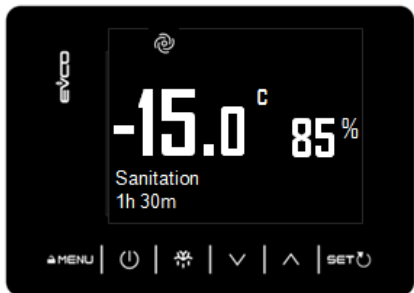
**SANITATION WITH RUNNING UNIT**

Push key and the AUX menu will show the Sanitation



Push SET to start or to abort;

While the process is running the countdown time is displayed



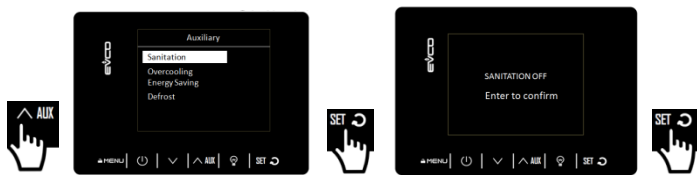
If the UV function is enabled it will be also displayed on the icons header, the process is performed without stopping the normal temperature and humidity regulation.



**DOOR OPEN**  
the process is interrupted and restarted as soon as the door is closed again.

**END OF THE PROCESS**  
When the countdown is expired all outputs are turned off and the display turns to the on/off page.

**MANUAL STOP**  
Enter **Aux** menu and select Sanitation and push SET to confirm.



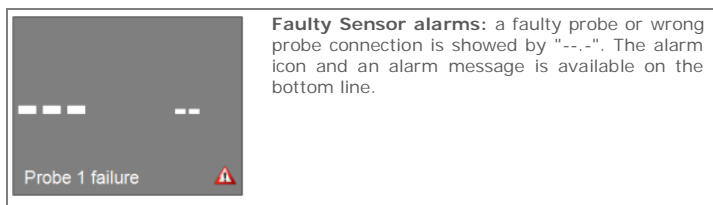
**REPEATING THE SANITATION PROCESS** Enabling the sanitation duration and interval parameters value, the process is repeated until next manual stop.

**BLACKOUT**  
If a blackout occurs the sanitation process will be repeated as soon as the power supply is back.

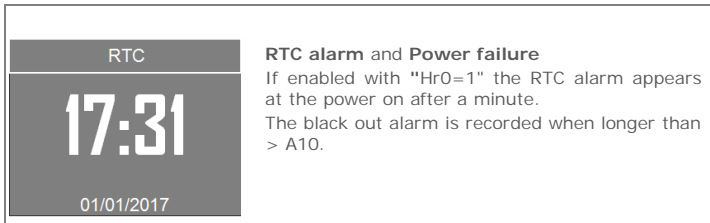
**10. ALARMS**

All the alarm events are displayed by rotation of the alarm messages on the bottom line of the display.

**SILENCING THE BUZZER** Alarm sounding can be reset touching MENU/SET keys.



**Faulty Sensor alarms:** a faulty probe or wrong probe connection is showed by "--.-". The alarm icon and an alarm message is available on the bottom line.



**RTC alarm and Power failure**  
If enabled with "Hr0=1" the RTC alarm appears at the power on after a minute. The black out alarm is recorded when longer than > A10.

**LIST OF THE ACTIVE ALARMS**

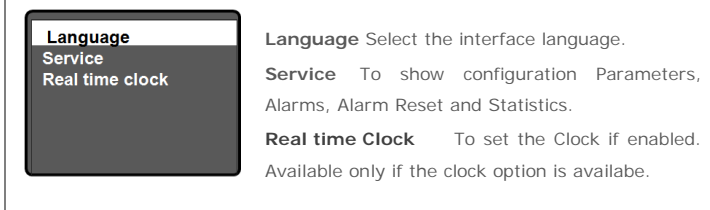
All the active alarms are also listed into MENU\_SERVICE\_ALARMS.

**LIST OF HACCP ALARMS LOG**

All the Haccp alarm are listed into the MENU\_SERVICE\_HACCP log. RESET To reset the blinking alarm icon enter the MENU\_SERVICE: Reset data memory.

**11. MENU - CONFIGURATION**

Touch the key for 2 seconds to enter the configuration.



**Language** Select the interface language.  
**Service** To show configuration Parameters, Alarms, Alarm Reset and Statistics.  
**Real time Clock** To set the Clock if enabled. Available only if the clock option is available.

**LANGUAGE** To select the operative language. Basic languages I-GB other depending on version updates (N.A.).

**MENU\_SERVICE** to configure the I/O, reading values and maintenance.



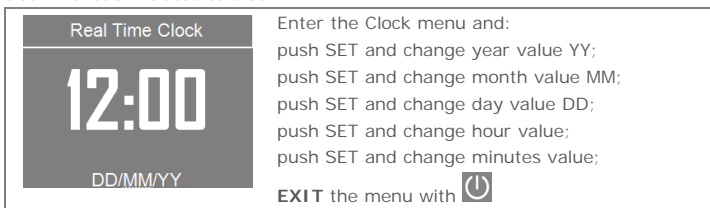
**SERVICE MENU ITEMS**

**Parameters** To access and configure parameters  
**Internal value** To show I/O values.  
**Alarms** To show the list of active alarms  
**Reset data memory** Alarm Reset (code 149)  
**Parameters Restore** Re-load original parameter map. BE AWARE (\*)  
**Haccp** Show the HACCP Log from last Alarm Reset.

(\*) custom configuration can be different from default values. By re-loading the original values, the loads connected to relay outputs can be damaged or wrongly perform if not corresponding.

**REAL TIME CLOCK**

Real time clock functions are available if provided on board or connected with external interfaces EVIF23TSX or EVIF25TBX (Evlink), Enter this menu to set the clock. Function related to Clock:



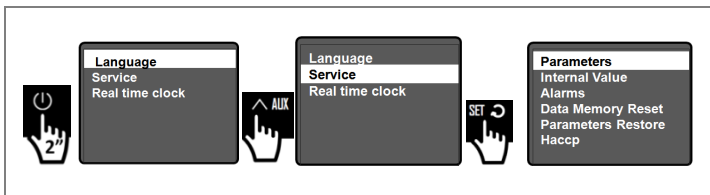
Enter the Clock menu and:  
push SET and change year value YY;  
push SET and change month value MM;  
push SET and change day value DD;  
push SET and change hour value;  
push SET and change minutes value;  
**EXIT** the menu with

Regulation functions available with the clock function:

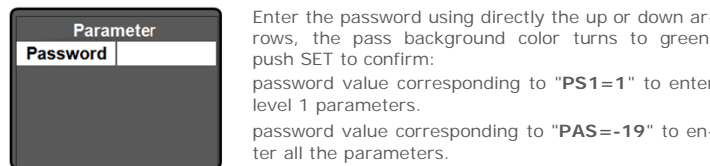
- daily defrost: Hd1..Hd6.
- daily Energy Saving: H01..H02

**12. PARAMETERS AND PASSWORDS**

ENTER: Push MENU key for 2 seconds;



**PASSWORD**



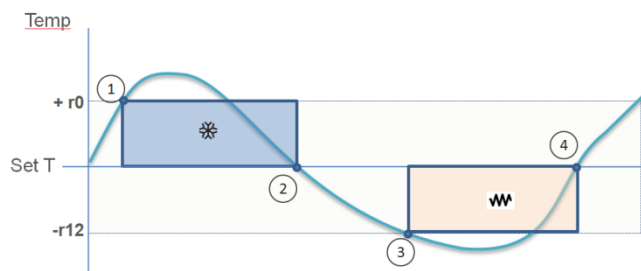
Enter the password using directly the up or down arrows, the pass background color turns to green, push SET to confirm:  
password value corresponding to "PS1=1" to enter level 1 parameters.  
password value corresponding to "PAS=-19" to enter all the parameters.

**13. REGULATION**

**Temperature regulation**

The temperature setpoint can be set between the limits min "r1" and max "r2". The temperature is regulated with the following outputs:

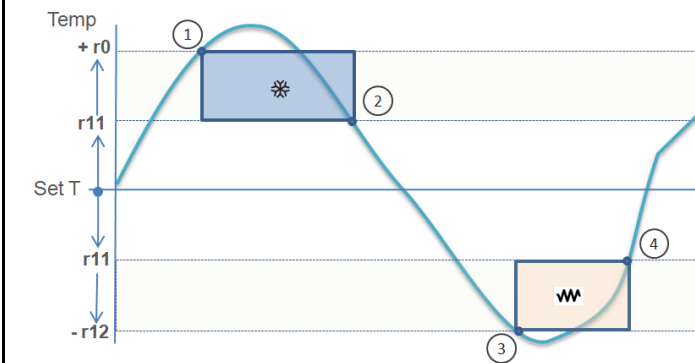
- Cooling between "SET+r0= on" (1) and "SET=off" (2).
- Heating between "SET-r12= on" (3) and "SET=Off" (4).



**TEMPERATURE REGULATION WITH NEUTRAL ZONE**

Available by setting "r11<>0" the value is inserted between the SET and the differential:

- Cooling regulation "SET+r11+r0= on" (1) and "SET+r11=off" (2).
- Heating regulation "SET-r11-r12" = on (3) and "SET-r11" = OFF (2).



if "r11<0" the neutral zone is available only for heating side 3-4.

**TEMPERATURE REGULATION and DE-HUMIDIFY WITH COMPRESSOR**

By setting "rd4=1" the de-humidify function with compressor is enabled, while setting "rd4=2" the same function is performed by turning on also the Heating output on with the Compressor.

**TEMPERATURE PRIORITY OVER DE-HUMIDIFY with compressor if "rd4>0".**

The "r14" parameter can be configured as the following priority:  
0 = Temperature and humidity are independent and follow their requests.  
1 = Heat: if the temperature drifts up, the de-humidify is suspended.  
2 = Heat-Cool: if the temperature drifts up or down, the de-humidify is suspended.  
3 = Cool: if the temperature drifts-down, the de-humidify is suspended.

**HEATING MODULATION**

The heating output can be modulated with "r13" by setting a duty cycle interval between 10 and 60". The "r13=60" value (default) means that the heating relay is always on when the request of heating is active. Be aware that increasing the switching frequency of the relay may introduce long term contact duration concerning. For safety reasons the fan stop temperature "F1" must be set very high to avoid stopping the fan during the heating.

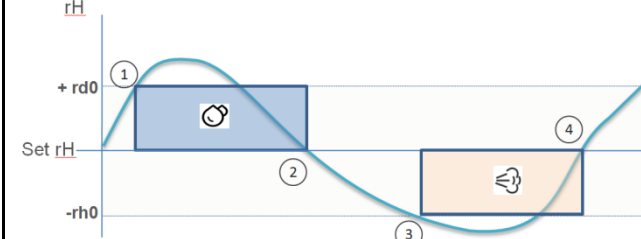
**OPEN DOOR**

The regulation can be suspended depending on "ic1" digital input function. Regulation can be restarted by forcing the timer setting "i3".

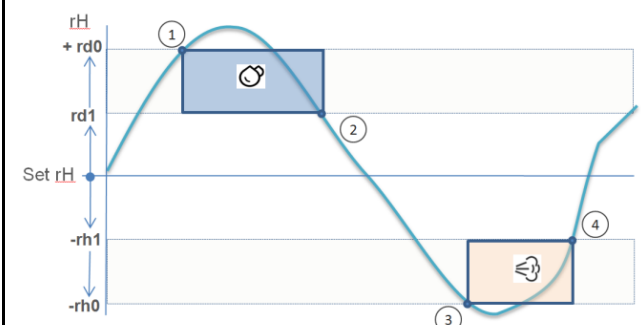
**Humidity regulation Set2**

The Humidity is basically controlled by the following algorithms:

- de-humidify is controlled between "SET2+rd0=On" (1) and "SET2=Off" (2).
- humidify is controlled between "SET2-rh0=On" (3) and "SET2=Off" (4).



A **NEUTRAL ZONE** is available by setting "rh1" for the humidify process and "rd1" for the de-humidify process.



**OPEN DOOR** regulation is suspended depending on "ic1" digital input function. Cooling regulation can be restarted by forcing the time parameter "i3".

**DE-HUMIDIFY WITH COMPRESSOR (default rd4=1)**

Setting "rd4=0" the function is disabled, while setting the following values:  
"rd4=1" to use the compressor in de-humidify function.  
"rd4=2" to use the compressor+heating in de-humidify function.

**14. EVAPORATING FAN**

Evaporating fan follows the "F0" parameter. default=1

**FAN STATUS**

Parameter "FO" allows the following behaviors:  
0= "Fans on with regulation on" (intended as compressor, heating, humidify, de-humidify). F0=0 also allows to control fan cycles (\*);  
1= Always ON, (default),  
2= ON with regulation On,  
3= With temperature threshold F1, if the evaporator probe is enabled "Pr3=5".  
4= ON with regulation On and threshold F1, if the evaporator probe is enabled "Pr3=5".

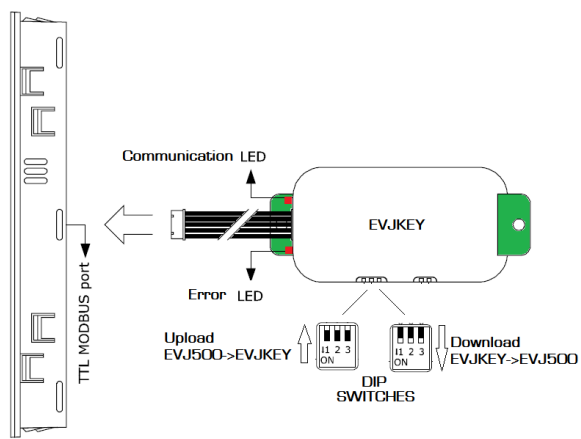
It is advised to use "F0= 3 or 4" values only without heating elements. For safety reason the fan stop temperature "F1" must be wisely set to avoid stopping the fan during the heating function.

**OTHER SETTINGS**

**FAN TEMPERATURE THRESHOLD "F1"** to lock for high temperature if "Pr3=5" Working with heating elements F1 must be set at high values to avoid turning the fan off.  
**DEFROST** with "F2" fan mode to determine the fan status.  
**DRIPPING** with "F3" to determine the fan stop time after the defrost.







## 25. PARAMETERS

### LEVEL 1 PARAMETERS password PS1=1

CA1	0.0	Probe 1 calibration
CA2	0.0	Probe 2 calibration
r0	2.0	Heating differential
r12	-2.0	Cooling differential
rd0	3.0	De-humidify differential
rh0	-3.0	Humidify differential
d0	0 hours	defrost interval
d2	8	End defrost temperature
d3	30 min	Defrost duration
PLi	1	Light key configuration in stand-by
Pbu	2	Buzzer enabled for alarm and keys

### SETPOINT LIST (FROM KEYBOARD)


N.	PAR.	DEF.	SETPOINT	MIN... MAX. (°C)
	SET	10	temperature setpoint	r1..r2
	SET2	70	humidity setpoint	h1..h2

### PARAMETERS LIST

N.	PAR.	DEF.	ANALOG INPUTS	MIN... MAX.
1	CA1	0	Ambient probe offset	-25..+25 °C/F
2	CA2	0	Humidity Probe Offset	-25..+25 %rH
3	CA3	0	Auxiliary Probe Offset	-25..+25 °C/F
4	P0	1	Probe Type EVHTP500 T+Rh probe. EVHTP520 T+Rh new probe.	0= ptc+ EVHTP500 1= ntc + EVHTP500 2= ptc+ EVHTP520 3= ntc + EVHTP520
5	P1	1	Enable °C Decimal Point	0=no 1=yes
6	P2	0	Temperature Unit Of Measurement	0 = Celsius 1 = Fahrenheit
7	Pr3	5	Probe 3 configuration	0 = Digital input 1 = Condenser Probe 2 = Core Probe 3 = External Air 4 = Auxiliary Probe 5 = Defrost 2 Probe
8	P5	1	Value Displayed (left side) Setting to 0 the display is off.	0 = None 1 = Input 1 2 = Input 2 3 = Input 3 4 = Setpoint 1 (T) 5 = Setpoint 2 (rH)
9	P6	2	Value Displayed 2 (right side). Setting to 0 the display is off	0 = None 1 = Input 1 2 = Input 2 3 = Input 3 4 = Setpoint 1 (T) 5 = Setpoint 2 (rH)
10	P8	5	Display Refresh Time to increase/decrease a digit.	0..255 1/10 dec s
11	P9	5	Display 2 Refresh Time to increase/decrease a digit.	0..255 1/10 dec s
N.	PAR.	DEF.	TEMPERATURE	MIN... MAX.
12	r0	2	Setpoint cooling Differential. (SET+r0) (SET+r11+r0 if neutral zone)	0.1..15 °C/F
13	r1	0	Minimum Setpoint Temp	-30.. r2 °C/F
14	r2	50	Maximum Setpoint Temp	r1.. +99 °C/F
15	r4	0	Setpoint Offset in Energy Saving	0..99 °C/F
16	r5	0	Disable Humidity regulation during Over Temp	0=no 1 =Yes
17	r6	0	Define the value of the temperature sepoint "SET +/- r6" in Over Temp	-40..+99 °C/F
18	r7	0	OverTemp time duration	0..240 min
19	r11	0	Neutral Zone Value. With r11>0 the value is active for heating or cooling. With r11<0 the value is active only for heating function.	-10..+10 °C/F
20	r12	-2	Setpoint Heating Differential (SET+r12) (SET+r11-r12 if neutral zone).	-25..-0.1 °C/F
21	r13	60	Heating Duty Cycle. "r13=60" = always on, 0= Off.	0..60" s
22	r14	2	Temperature Priority control: if >0 the unit stops de-humidify (with compressor) to adjust temperature first.	0 = Disabled 1 = Heating (if T° rises) 2 = Heat/Cool 3 = Cooling (if T° drops)
N.	PAR.	DEF.	HUMIDITY	MIN... MAX.
23	h1	10	Minimum setpoint 2	0..h2 %rH
24	h2	95	Maximum setpoint 2	h1..100 %rH
25	h4	0	Setpoint of Extra Humidity using AUX key manual function. The value of "h4" replace SET2 for the time set in "h5".	0..100 %rH
26	h5	0	Extra humidity duration. 0= function not enabled.	0..240 min
N.	PAR.	DEF.	DE-HUMIDIFY REGULATION	MIN... MAX.
27	rd0	3	De-Humidity differential. (SET2+rd0) (SET2+rd1+rd0 if neutral Zone)	1..25 %rH
28	rd1	0	De-Humidify Neutral Zone	0..10 %rH
28	rd2	60	Fan On Time in De_humidify. 0= fan off.	0..240 " s
30	rd3	0	Fan Off Time In De-Humidify. 0=normal function.	0..240 " s

31	rd4	1	De-Humidify with Compressor or compressor and heater. 0= temperature and de-humidity outputs are independent.	0 = Disabled 1 = Compressor 2 = Compressor and Heat
32	rd5	0	Heating and de-Humidify functions executed with Defrost output if no heating output is available.	0=no 1=Yes
N.	PAR.	DEF.	HUMIDIFY REGULATION	MIN... MAX.
33	rh0	-3	Humidify Differential (SET2-rh0) (SET2-rh1-rh0 if neutral zone)	-25..-1 %rH
34	rh1	0	Humidify Neutral Zone	0..10 % %rH
35	rh2	60	Humidify Output On Time (or Fan if no rH output configured). 0= Humidify output off.	0..240 " s
36	rh3	0	Humidify Output Off Time (or Fan if no rH output configured). 0= Humidify output normal.	0..240 " s
N.	PAR.	DEF.	COMPRESSOR	MIN... MAX.
37	C0	0	Compressor ON Delay After Power-on	0..240 min
38	C2	3	Compressor OFF Minimum Time	0..240 min
39	C3	0	Compressor ON Minimum Time	0..240 " s
40	C4	10	Compressor OFF Time during Cabinet Probe Alarm	0..240 min
41	C5	10	Compressor ON Time during Cabinet Probe Alarm	0..240 min
42	C6	80	Threshold for High Condensation Warning	0..199 ° C/F
43	C7	90	Threshold for High Condensation Alarm	0..199 ° C/F
44	C8	0	Compressor Shutdown Alarm Delay for high condensing.	0..15 min
45	C10	0	Compressor run time for Service	days
46	C11	10	Compressor 2 On Delay after Compressor 1	0..240 " s
N.	PAR.	DEF.	DEFROST	MIN... MAX.
47	d0	8	Defrost interval time	0..99 h
48	d1	0	Type of Defrost	0 = Electric 1 = Hot gas 2 = Compressor Stop
49	d2	8	Threshold for Defrost End	-99..+99 ° C/F
50	d3	30	Defrost Duration	0..99 min
51	d4	0	Enable Defrost at Power-on	0=no 1=power on 2= post overcooling 3= power on and post overcooling
52	d5	0	Defrost Delay after Power-on	0..99 min
53	d6	1	Value Displayed during Defrost	0 = Regulation Value 1 = Display Locked 2 = reserved
55	d7	0	Dripping Time	0..15 min
56	d11	0	Enable Defrost Time-Out Alarm	0=NO 1=YES
57	d15	0	Compressor ON Consecutive Time for Hot Gas Defrost	0..99 min
N.	PAR.	DEF.	ALARMS	MIN... MAX.
58	A1	0	Threshold for Low Temperature Alarm	-99..+99 ° ° C/F
59	A2	2	Low Temperature Alarm Type	0 = Disabled 1 = Relative to Setpoint 2 = Absolute
60	A4	50	Threshold for High Temperature Alarm	-99..+99 ° C/F
61	A5	2	HighTemperature Alarm Type	0 = Disabled 1 = Relative to Setpoint 2 = Absolute
62	A6	120	High Temperature Alarm Delay after Power-on	0..240 min
63	A7	15	Temperature alarm delay	0..240 min
64	A8	15	High Temperature Alarm Delay After Defrost	0..240 min
65	A9	15	High Temperature Alarm Delay after Door Closing	0..240 min
66	A10	15	Power Failure Duration for PF Alarm Recording	0..240 min
67	A11	1	High/Low Temperature Alarm Reset Differential	0.1..15 ° C/F
68	AH1	50	Low Humidity Alarm relative to SET2	0..100 %rH
69	AH4	50	High Humidity Alarm relative to SET2	0..100 %rH
70	AH7	30	Humidity Alarm Delay and sensor error.	0..240 min
N.	PAR.	DEF.	EVAPORATOR FAN	MIN... MAX.
71	F0	1	Evaporator Fan Mode during Normal Operation. With F0=0 parameters F11-F12, rd2-rd3, rh2-rh3 can enable a fan cycling regulation. For safety reason (use of heating elements and cycles) check the fan control chapter.	0 = ON + Fan Cycling. 1 = ON (default) 2 = ON if regulation ON 3 = Thermoregulated (with F1 relative to Regulation Temperature) 4 = Thermoregulated if Compressor ON (with F1 relative to Regulation Temperature)
72	F1	99	Threshold for Evaporator Fan Operation with F0=3 or 4. Relative to Temperature Setpoint	-99..+99 °C/F
73	F2	0	Evaporator Fan Mode during Defrost	0 = OFF 1 = ON 2 = According to F0
74	F3	0	Evaporator Fan OFF Maximum Time after Dripping	0..15 min
75	F7	99	Threshold for Evaporator Fan ON after Dripping (relative to Setpoint)	-99..+99 ° C/F
76	F8	2	Evaporator Setpoint Differential	0.1..15 ° C/F
77	F9	5	Evaporator Fan OFF Delay after Compressor OFF	0..240 " s
78	F11	60	Fan On Time with no regulation. To be used with F0=0.	0..240 " s
79	F12	0	Fan Off Time with no Regulation. To be used with F0=0.	0..240 " s
N.	PAR.	DEF.	CONDENSER FAN	MIN... MAX.
80	Fc1	25	Threshold for Condenser Fan ON	0..99 ° C/F
81	Fc2	5	Condenser Fan Differential	0.1..15 ° C/F
82	Fc3	5	Condenser Fan Off delay	0..240 " s
N.	PAR.	DEF.	DIGITAL INPUTS FUNC	MIN... MAX.
83	i1	0	Lock Display with Open Door	0..240 min
84	i2	15	Open Door Alarm Delay. -1=disabled 0= immediate	-1..120 min
85	i3	15	Cooling Inhibition Max Time with Open Door -1=disabled	-1..120 min

86	i5	0	Multi-purpose Input Alarm Delay	0..120 min
87	i6	60	High Pressure Events Counting Interval	0..120 min
88	i7	60	Multi-purpose Input Alarm Delay	0..120 min
89	i8	1	Digital Input Event Counting For Pressure or Thermal Alarm. 0= always automatic, 1= always manual.	0..15
N.	PAR.	DEF.	AUXILIARY RELAY	MIN... MAX.
90	u5	0	Temperature threshold for door heaters uc()=13. Based on regulation temperature.	-99..+99 ° C/F
91	u6	0	Auxiliary output configuration. The manual control is operated via AUX key.	0= Heating 1= Cooling 2= Manual
92	u7	0.0	Auxiliary Setpoint if "u6=1 or 2".	-99..+99 ° C/F
93	u8	1.0	Auxiliary differential for "u7" if "u6=1 or 2"	0.1..15 ° C/F
94	u10	0	Duration of sanitation process	0..99 minutes
95	u11	0	Sanitation interval	0..999 minutes
96	u12	0	Evaporator fan status during sanitation	0= independent 1 = active
97	u13	0	Sanitation in Stand-by. 0= UV performed during temperature and humidity regulation. 1=Ozone only with unit in standby 2=Ozone performed in stand-by and also with running unit by stopping the main regulation.	0 = no 1 = yes 2= independent
N.	PAR.	DEF.	DIGITAL INPUT CONF.	MIN... MAX.
98	IC1	7	Multi-purpose Input Function, Door switch: 7,8 or 9.	0 = Disabled 1 = Energy saving 2 = Multipurpose 3 = Reserved 4 = Stand-by 5 = Thermal Switch 1 6 = Thermal Switch 2 7 = Compressor + Evaporator Fan OFF, Light ON 8 = Evaporator Fan OFF, Light ON 9 = Light ON 10 = Compressor + Evaporator fan off 11 = Evaporator fan off
99	IP1	0	Multi-purpose Input 1 Activation. 0= function active for contact closed.	0=closed 1=open
100	IC3	0	Digital Input 3 configuration Pr3=0.	0= disabled 1= high pressure switch
101	IP3	0	Multi-purpose Input 3 Activation. 0= function active for contact closed.	0=closed 1=open
N.	PAR.	DEF.	DIGITAL OUTPUTS CONF.	MIN... MAX.
102	uc1	4	K1 Output Configuration (C)	0 = Disabled 1 = Humidity 2 = de-Humidify 3 = Alarm 4 = Compressor 1 5 = Heating 6 = Condenser Fans 7 = ON / STAND-BY 8 = Air Change 9 = Light 10 = Compressor 2 11 = Evaporator Fans 12 = Defrost 13 = Door heaters 14 = Evaporator Fan 2 15 = Auxiliary Relay 16 = Sanification
103	uc2	5	K2 Output Configuration (HT)	
104	uc3	9	K3 Output Configuration (L)	
105	uc4	1	K4 Output Configuration (rH)	
106	uc5	11	K5 Output Configuration (EF)	
107	uc6	12	K6 Output Configuration (Def)	
N.	PAR.	DEF.	TOUCH KEYS	MIN... MAX.
108	POF	1	Enable ON/Stand-by Key	0 = no 1 = yes
109	PLi	1	Light button in stand-by	0 = no 1 = yes
110	PSr	1	Disable Alarm Output by Silencing the Buzzer	0 = no 1 = yes
111	Pbu	2	Enable key and Buzzer Function	0 = no 1 = only alarm, no keys 2 = alarm and keys
N.	PAR.	DEF.	PASSWORD	MIN... MAX.
112	PAS	-19	Password for all parameters	-99... 999
113	PS1	1	Level 1 service	-99... 999
114	PA1	426	Evlinc user password	-99... 999
115	PS2	824	Evlinc service password	-99... 999
N.	PAR.	DEF.	CLOCK	MIN... MAX.
116	Hr0	0 / 1	Enable clock function. 1= for models provided with rtc or EVLINK on board.	0 = no 1 = yes
N.	PAR.	DEF.	DATALOGGER	MIN... MAX.
117	BLE	1	"1"= EVLINK presence leaving LA, Lb and LP to default. To enable modbus communication via EVIF22/23TSX modules set to "0".	0 = no (Modbus active) 1 = Yes (EVLINK active)
118	rE0	15	Recording interval	0..240 min
119	rE1	4	Select Probes for Data-logger Recording	0=none 1=probe 1; 2= probe 2 3= probe 3; 4= probe 1 e probe 2; 5= all probes
N.	PAR.	DEF.	REAL TIME DEFROST Hr0=1	MIN... MAX.
120	Hd1	- - -	1st Daily Defrost Time	0..24 h
121	Hd2	- - -	2nd Daily Defrost Time	0..24 h
122	Hd3	- - -	3d Daily Defrost Time	0..24 h
123	Hd4	- - -	4th Daily Defrost Time	0..24 h
124	Hd5	- - -	5th Daily Defrost Time	0..24 h
125	Hd6	- - -	6th Daily Defrost Time	0..24 h
N.	PAR.	DEF.	MODBUS	MIN... MAX.
126	LA	247	MODBUS address if BLE=0	1... 247
127	Lb	3	MODBUS Baud Rate if BLE=0.	0= 2400; 1= 4800 2= 9600; 3= 19200
128	LP	2	Modbus Parity if BLE=0.	0= None; 1= Odd; 2= Even
N.	PAR.	DEF.	ENERGY SAVING	MIN... MAX.
129	HE2	0	Energy Saving Max Duration in manual mode	0..990 min
130	HO1	0	Energy Saving Start Time with rtc Hr0=1	0..23h
131	HO2	0	Energy Saving Duration	0..24h

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

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