



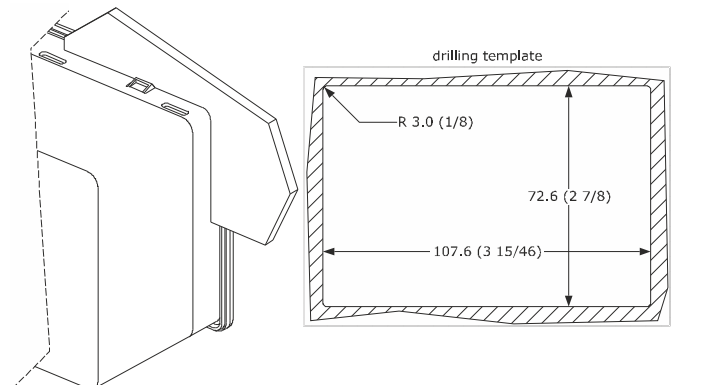
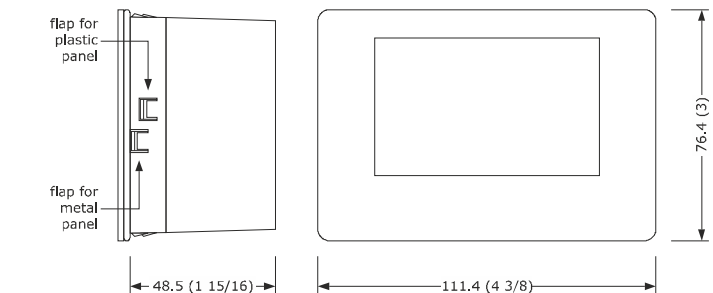
- EN ENGLISH**
- Controllers for low temperature units.
  - Power supply 230 VAC.
  - Incorporated clock (according to the model).
  - Cabinet probe and evaporator probe (PTC/NTC).
  - Door switch input.
  - Capable of managing Embraco and Secop variable speed compressors.
  - Alarm buzzer.
  - TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for BMS.
  - Port for SD card data-logger module EVBD05 (according to the model).
  - Models in plastic container or open-frame (according to the model).

**1 MEASUREMENTS AND INSTALLATION | Measurements in mm (inches)**

**1.1 Models in plastic container for front installation**

Front installation on a plastic or metal panel (with elastic holding flaps).

**N.B.**  
The thickness of a metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in), while that for a plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in).

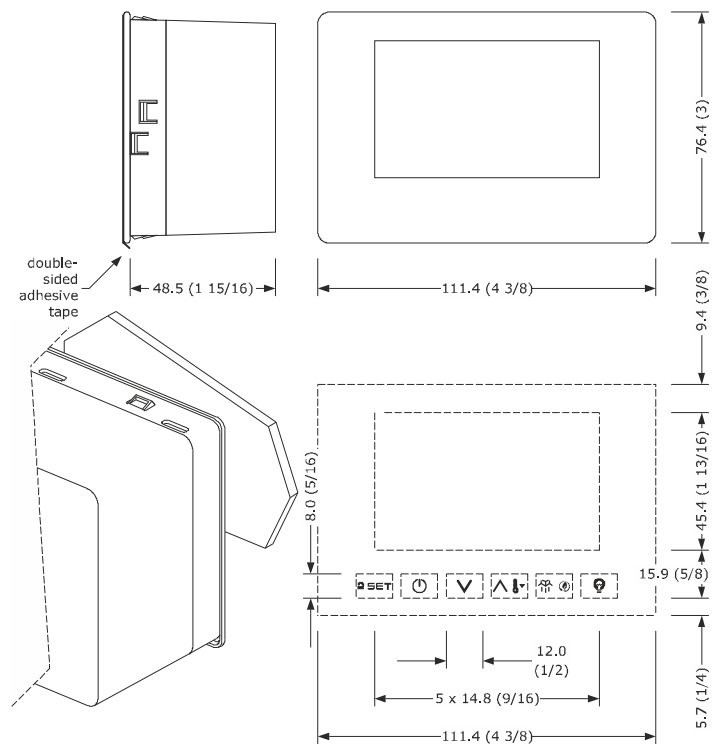


**1.2 Models in plastic container installed from behind**

Installed from behind a glass or methacrylate panel (with biadhesive) customizing the keys on the front of the unit.

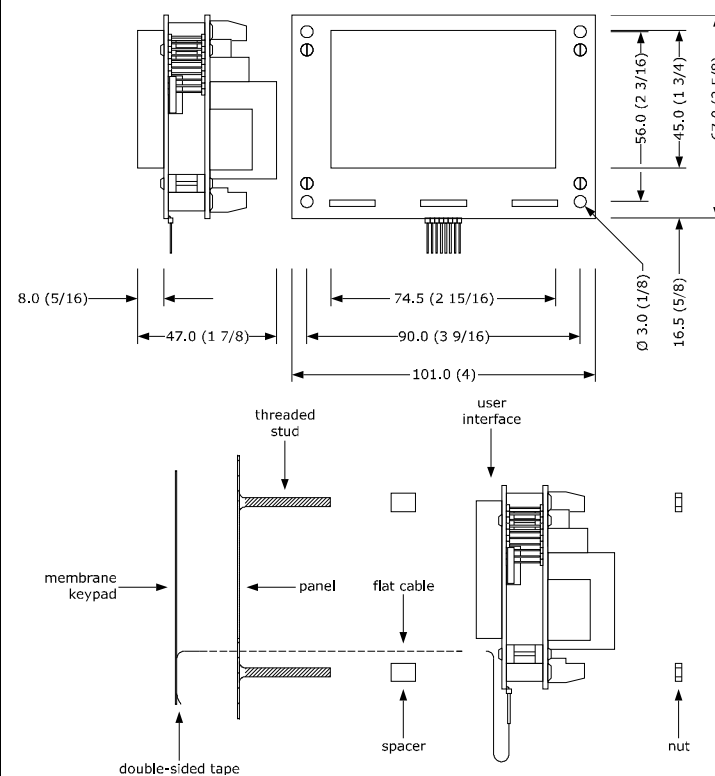
**N.B.**

- The thickness of a glass panel must be between 2.0 and 4.0 mm (1/16 and 1/8 in), while that for a methacrylate panel must be between 2.0 and 3.0 mm (1/16 e 1/8 in)
- The panel and the material used to make screen printing must not contain conductive substances
- Keep the device and the panel at a temperature between 15 and 38 °C (59 and 100 °F) about an hour before the installation
- Before the installation clean the panel surface in contact with the biadhesive carefully, **making sure the product used to clean is suitable for the panel material** (we recommend using isopropyl alcohol, hydrocarbon solvent in case of greasy surfaces); keep cleaning with a cloth as long as it results clean and dry after the use
- During the installation, exert a uniform and constant pressure about 30 s on the panel surface in contact with the biadhesive; later keep the device and the panel horizontally about 48 h at a temperature between 15 and 38 °C (59 and 100 °F).



**1.3 Open-frame models**

To be installed from behind, with threaded studs and membrane keypad.



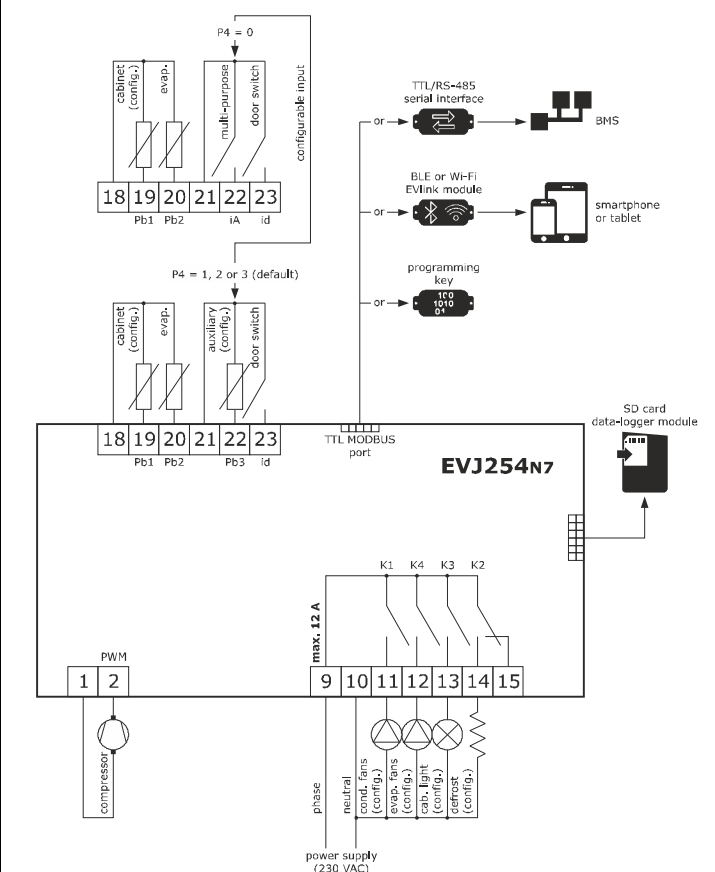
**INSTALLATION PRECAUTIONS**

- 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 connect the power cables as far away as possible from the signal cables.



In model EVJ254N7VXXRXV the EVlink BLE module is integrated.

**PRECAUTIONS FOR ELECTRICAL CONNECTION**

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. 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.

**3 FIRST-TIME USE**

1. Install following the instructions given in the section **MEASUREMENTS AND INSTALLATION**.
2. Power up the device and an internal test will be run. The test normally takes a few seconds, when it is finished the display will switch off.
3. Configure the device as shown in the section **Setting configuration parameters**. Recommended configuration parameters for first-time use.

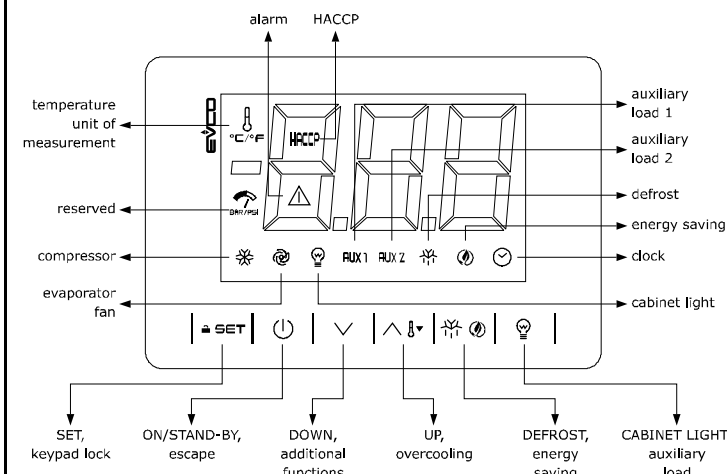
PAR.	DEF.	PARAMETER	MIN... MAX.
SP	0.0	setpoint	r1... r2
P0	1	probe type	0 = PTC 1 = NTC
P2	0	temperature unit of measurement	0 = °C 1 = °F
d1	0	defrost type	0 = electric 1 = hot gas 2 = compressor stopped
r15	1	compressor type	1 = Embraco VEM 2 = Embraco VEG 3 = Embraco VNEK e VNEU 4 = Secop VNL 50... 150 Hz (25 Hz in off) 5 = Secop 33... 133 Hz

Then check that the remaining settings are appropriate; see the section **CONFIGURATION PARAMETERS**.

4. Disconnect the device from the mains.

5. 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 in EVJ254N7 connect the module EVIF23TSX, for recording HACCP data in CSV format on SD card connect the module EVBD05, to use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module, to use the device with the Android APP EVconnect connect the interface EVIF25TBX (or use EVJ254N7VXXRXV); see the relevant instruction sheets. **If EVIF22TSX or EVIF23TSX is used, set parameter bLE to 0.**
7. Power up the device.

**4 USER INTERFACE AND MAIN FUNCTIONS**



**4.1 Switching the device on and off**

1. If POF = 1 (default), touch the ON/STAND-BY key for 2s. If the device is switched on, the display will show the P5 value ("cabinet temperature" default); if the display shows an alarm code, see the section **ALARMS**.

LED	ON	OFF	FLASHING
☀	compressor on	compressor off	- compressor protection active - setpoint being set
🌀	evaporator fan on	evaporator fan off	evaporator fan stop active
💡	cabinet light on	cabinet light off	cabinet light on by digital input
AUX 1	auxiliary function 1 on	auxiliary function 1 off	- auxiliary function 1 on by digital input - auxiliary function 1 delay active
AUX 2	auxiliary function 2 on	auxiliary function 2 off	- auxiliary function 2 on by digital input - auxiliary function 2 delay active
❄	defrost or pre-drip active	-	- defrost delay active - dripping active
⚡	- energy saving active - low consumption active	-	-
🕒	view time	-	set date, time and day of the current week
🌡	view temperature	-	overcooling or overheating active
HACCP	saved HACCP alarm	-	new HACCP alarm saved
⚠	alarm active	-	-

If Loc = 1 (default) and 30s have elapsed without the keys being pressed, the display will show the "Loc" label and the keypad will lock automatically.

**4.2 Unlock keypad**

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

**4.3 Set the setpoint (if r3 = 0, default)**

Check that the keypad isn't locked.

1. Touch the SET key.
2. Touch the UP or DOWN key within 15s to set the value within the limits r1 and r2 (default "-40... 50").
3. Touch the SET key (or do not operate for 15s).

**4.4 Activate manual defrost (if r5 = 0, default)**

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

1. Touch the DEFROST key for 2s.
- If P3 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

**4.5 Cabinet light on/off (if u1c... u4c = 4)**

1. Touch the CABINET LIGHT key.

**4.6 Button-operated load on/off (if u1c... u4c = 9 or 10)**

1. Touch the CABINET LIGHT key (for 2s if u1c... u4c = 4).

If u1c... u4c = 5, the **demisting** switch on for the u6 duration.

**4.7 Silence buzzer (if u9 = 1, default)**

Touch a key.  
If u1c... u4c = 11 and u4 = 1, the alarm output is deactivated.

**5 ADDITIONAL FUNCTIONS**

**5.1 Activate/deactivate overcooling and overheating**

Check that the keypad is not locked.

1. Touch the UP key for 2s.

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0 and defrost not active	the setpoint becomes "setpoint - r6", for the r7 duration
overheating	r5 = 1	the setpoint becomes "setpoint + r6", for the r7 duration

**5.2 Activate/deactivate energy saving in manual mode (if r5 = 0)**

Check that the keypad is not locked.

1. Touch the DEFROST key.

The setpoint becomes "setpoint + r4", at maximum for HE2 duration.

**5.3 Activate the high or low humidity functions (if F0 = 5)**


Check that the keypad isn't locked.

1. Touch the DOWN key for 1s.
2. Touch the UP or DOWN key within 15s to select the label "rH".
3. Touch the SET key until the display shows the right label for the function (only touch the key to see the function activated).





**For EVJ254N7VXXRXV** According to European R&TTE Declaration of Conformity this device can be used in the following Countries: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Poland Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands and The United Kingdom.

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