

EN ENGLISH

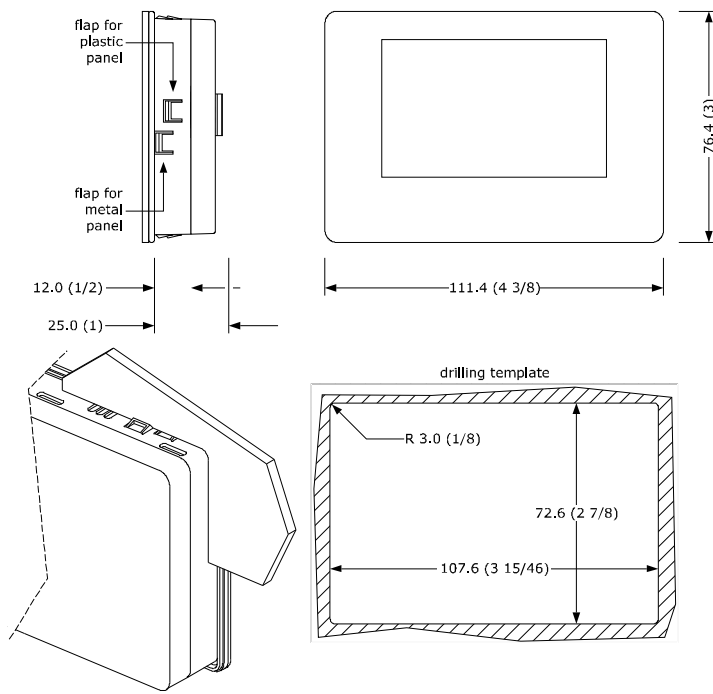
- Controllers for low temperature units.
- Power supply 115... 230 VAC.
- Incorporated clock (according to the model).
- Cabinet probe and evaporator probe (PTC/NTC).
- Door switch input.
- Compressor relay 30 A res. @ 250VAC.
- Alarm buzzer.
- TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for BMS.
- Port for SD card data-logger module EVBD05 (according to the model).
- Direct connection to the load.
- User interface in plastic container or open-frame (according to the model).

1 MEASUREMENTS AND INSTALLATION | Measurements in mm (inches)

1.1 User interface in plastic container

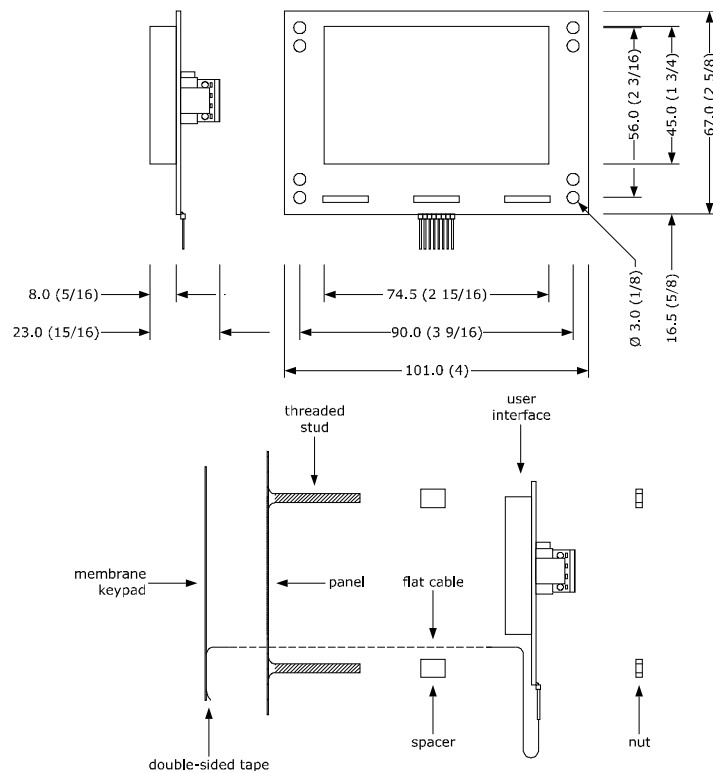
To be fitted to a panel, with elastic holding flaps.

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).



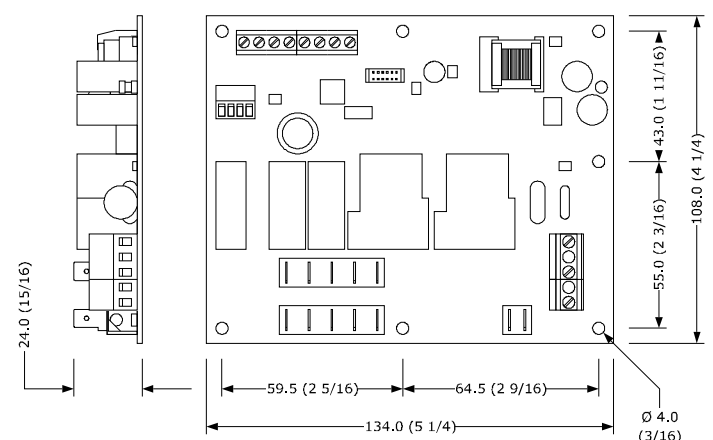
1.2 Open-frame user interface

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



1.3 Control module

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

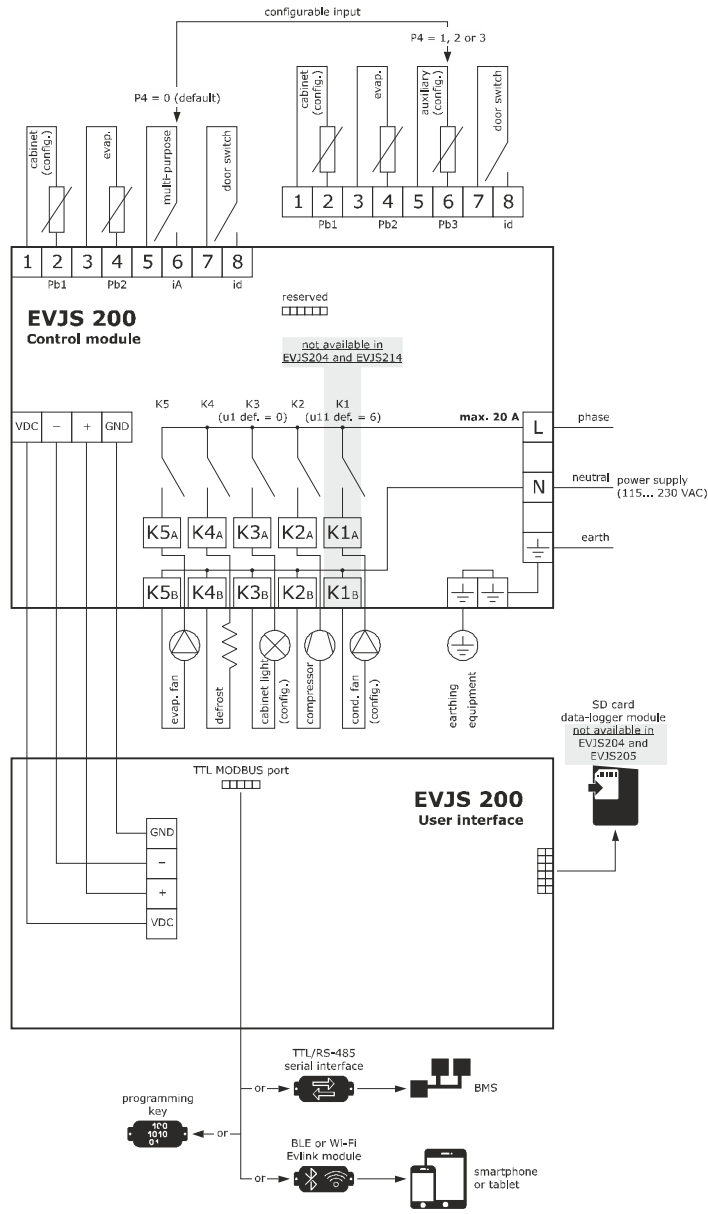


INSTALLATION PRECAUTIONS

- 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.
- Any metal parts close to the control module must be far enough away so as not to compromise the safety distance.
- 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.



PRECAUTIONS FOR ELECTRICAL CONNECTION

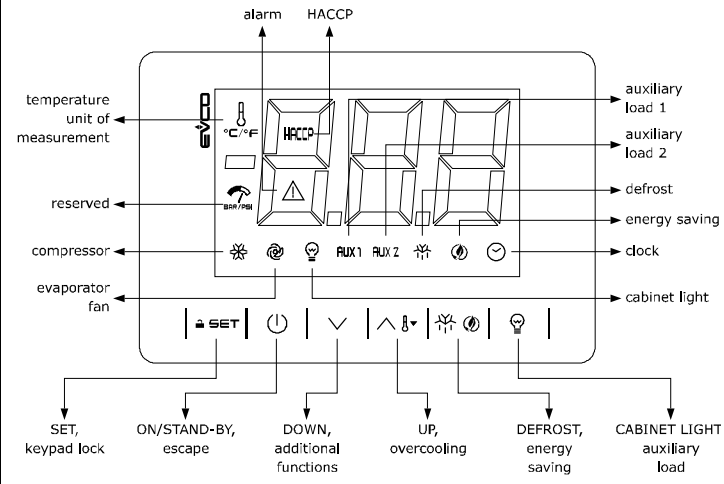
- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- If the device has been moved from a cold to a warm place, the humidity may have caused condensat. to form inside. Wait about an hour before switching on the power.
- Make sure that the supply voltage, electrical frequency 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. Connect the user interface to the control module as shown in the section *ELECTRICAL CONNECTION* without powering up the device.
3. 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.
4. 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	
5. Then check that the remaining settings are appropriate; see the section *CONFIGURATION PARAMETERS*.
5. Disconnect the device from the mains.
6. Make the electrical connection as shown in the section *ELECTRICAL CONNECTION* without powering up the device.
7. For the connection in an RS-485 network connect the interface EVIF22TSX or EVIF23TSX, to activate real time functions in EVJS204 and EVJS205 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 (EVlink); see the relevant instruction sheets. **If EVIF22TSX or EVIF23TSX is used, set parameter BLE to 0.**
8. 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	-	quick cooling 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

Check that the keypad isn't locked and that quick cooling isn't 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 u1 or u11 = 0, default)

1. Touch the CABINET LIGHT key.

4.6 Button-operated load on/off (if u1 or u11 = 2)

1. Touch the CABINET LIGHT key (for 2s if u1 or u11 = 0=).

If u1 or u11 = 1, the demisting switch on for the u6 duration.

4.7 Silence buzzer (if u9 = 1, default)

Touch a key.

If u1 or u11 = 3 and u4 = 1, the alarm output is deactivated.

5 ADDITIONAL FUNCTIONS

5.1 Activate/deactivate overcooling

Check that the keypad isn't locked and that defrosting isn't active.

1. Touch the UP key for 2s.

The setpoint becomes "setpoint - r6", for the r7 duration.

5.2 Activate/deactivate energy saving in manual mode

Check that the keypad isn't 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 for 2s until the display shows the right label for the function (only touch the key to see the function activated).

LAB.	DESCRIPTION
rhL	low humidity function (evaporator fan with F17 and F18 if the compressor is off, on if the compressor is on)
rhH	high humidity function (evaporator fan on)

4. Touch the ON/STAND-BY key (or do not operate for 60s) to exit the procedure.

5.4 View/delete HACCP alarm information (not available in EVJ204 and EVJ205)

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 a label.

LAB.	DESCRIPTION
LS	view HACCP alarm information
rLS	delete HACCP alarm information

