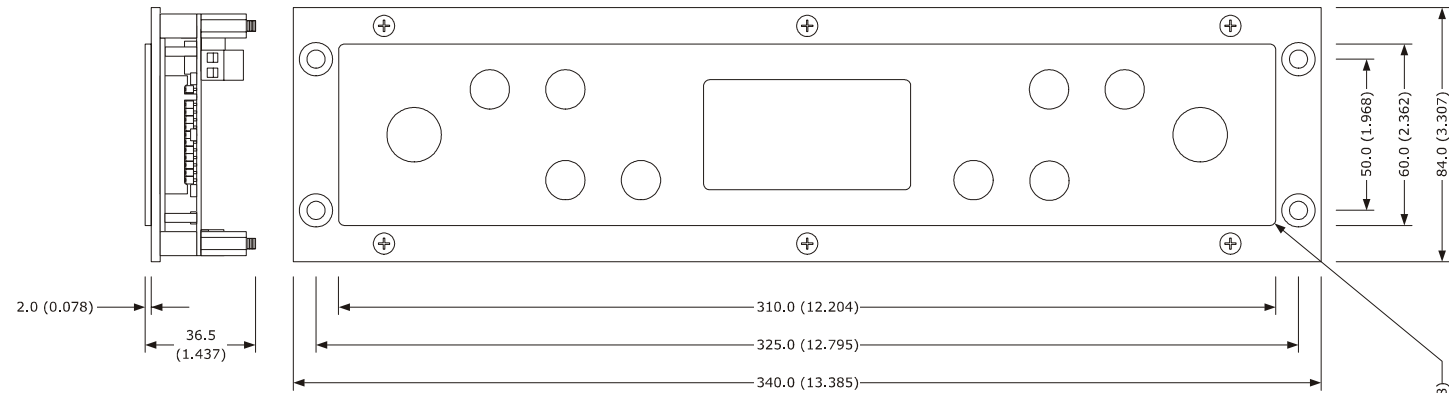


SIZE AND INSTALLATION

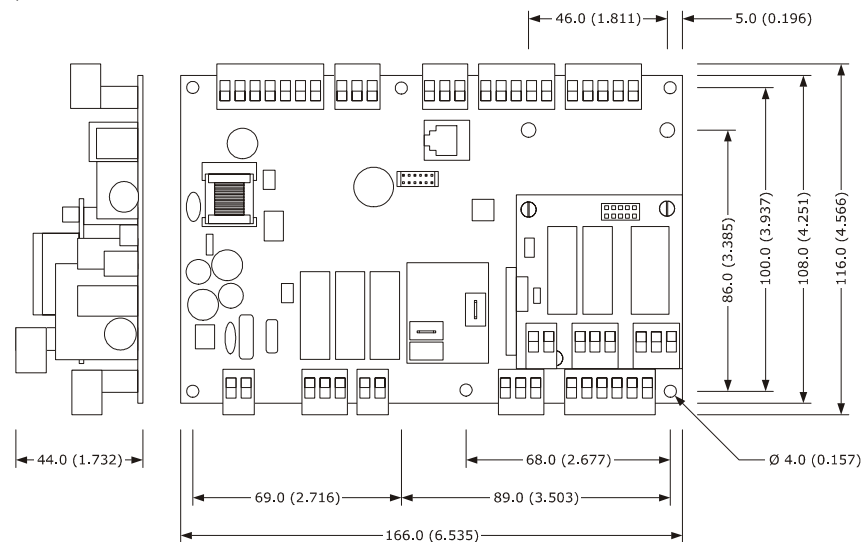
Size and installation user interface

Size in mm (in): installation is by back panel, with threaded studs.



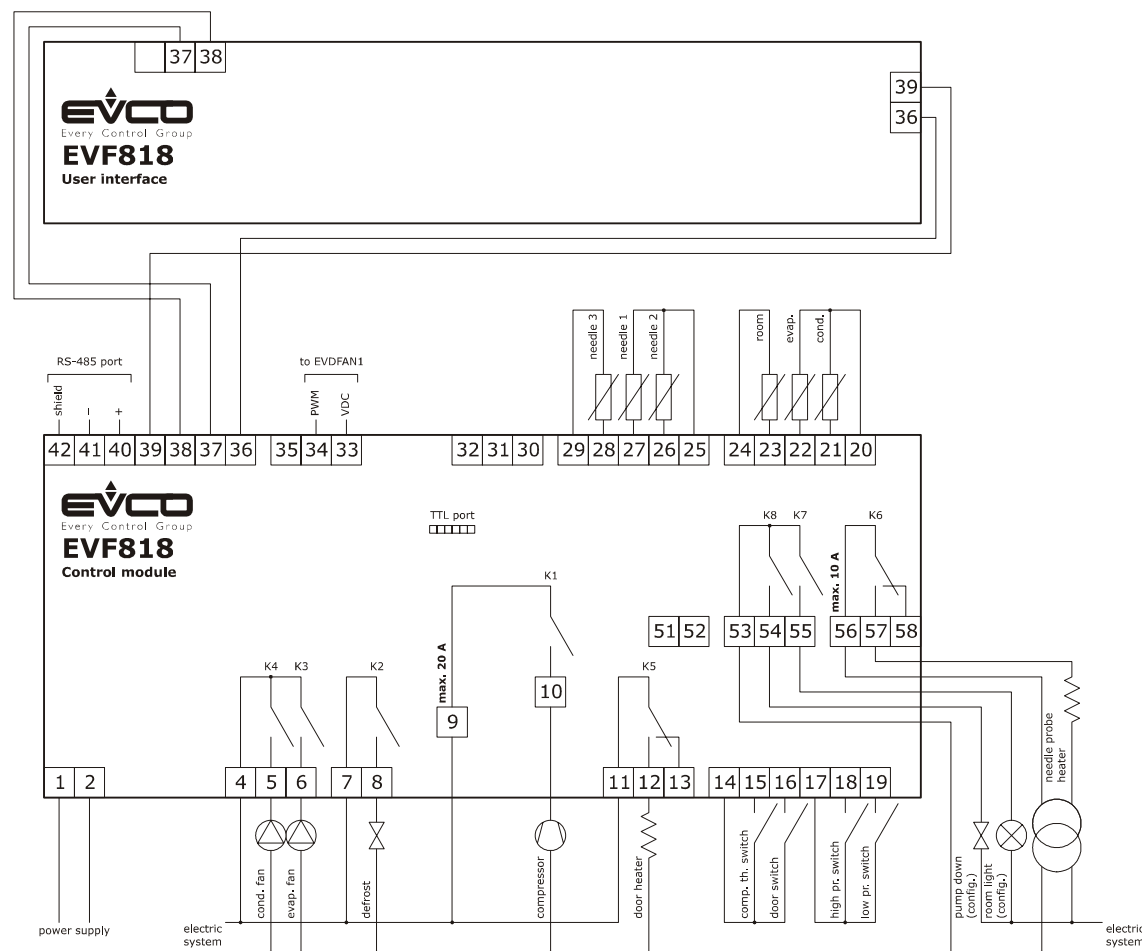
Size and installation control module

Size in mm (in): installation is on flat surface, with spacers.



ELECTRICAL CONNECTION

Electrical connection



ENGLISH

IMPORTANT

Read this document carefully before installing and using the device and follow all the additional information; keep this document close to the device for future consultations. For further information consult the "Installer manual".

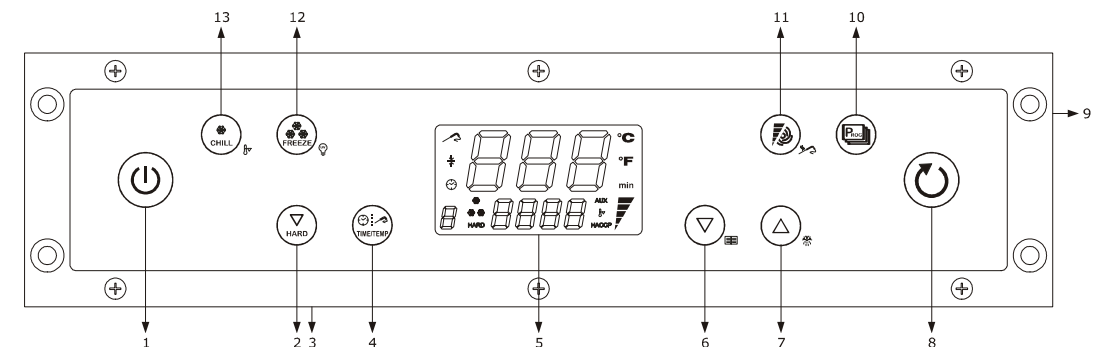
The device must be disposed according to the local legislation about the collection for electrical and electronic equipment.

1 SIZE AND INSTALLATION

- 1.1 Additional information for the installation**
- make sure the working conditions of the device (operating temperature, operating humidity, etc.) are in the limits indicated; look at chapter "TECHNICAL DATA"
 - do not install the device close to heating sources (heaters, hot air ducts, etc.), devices having big magnetos (big speakers, etc.), locations subject to direct sunlight, rain, humidity, dust, mechanical vibrations or bumps

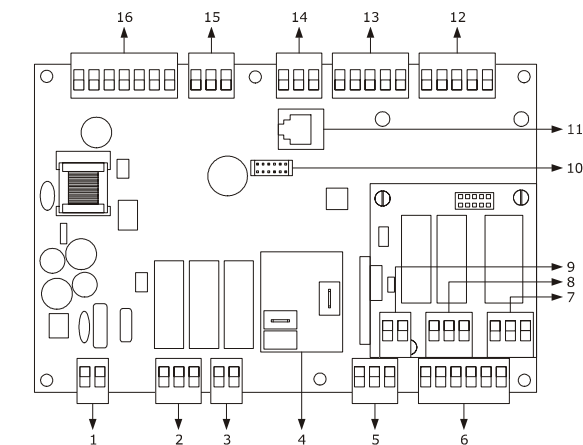
3 DESCRIPTION

3.1 Description user interface



Part	Meaning
1	button ON / STAND-BY
2	button HARD / SOFT
3	port to communicate with the control module (signal)
4	button TIME / TEMPERATURE
5	display
6	button DOWN
7	button UP
8	button START / STOP
9	port to communicate with the control module (power supply)
10	button PROGRAMS
11	button BLAST CHILLING INTENSITY
12	button BLAST FREEZING
13	button BLAST CHILLING

3.2 Description control module



Part	Meaning
1	power supply
2	digital outputs K3 and K4
3	digital output K2
4	digital output K1
5	digital output K5
6	digital inputs
7	digital output K6
8	digital outputs K7 and K8
9	reserved
10	TTL serial port
11	reserved
12	analog inputs (room probe, evaporator probe and condenser probe)
13	analog inputs (needle probe 1, needle probe 2 and needle probe 3)
14	reserved
15	PWM analog output
16	RS-485 serial port with MODBUS communication protocol and port to communicate with the user interface (signal and power supply)

- any metal parts in proximity of the control module must be at a distance such that they do not compromise the safety distances
- according to the safety legislation, the protection against possible contacts with the electrical parts must be ensured by a correct installation of the device; all the parts which ensure the protection must be fixed so that you can not remove them if not by using a tool.

2 ELECTRICAL CONNECTION

2.1 Additional information for electrical connection

- do not operate on the terminal blocks of the device using electrical or pneumatic screwdrivers
- if the device has been moved from a cold location to a warm one, the humidity could condense on the inside; wait about an hour before supplying it
- make sure the power supply voltage, the electrical frequency and the electrical power of the device correspond to those of the local power supply; look at chapter "TECHNICAL DATA"

- disconnect the power supply of the device before servicing it
- do not use the device as safety device
- for the repairs and for information about the device please contact the EVCO sales network.

4.3 The display

During status "off" and during status "stand-by" all the displays are switched off.

During status "on":

- the 1 digit display will be switched off
- the 3 digits display:
 - will show the blast chilling cutoff temperature if a temperature controlled blast chilling has been selected or the blast freezing cutoff temperature if a temperature controlled blast freezing has been selected
 - will show the blast chilling duration if a time controlled blast chilling has been selected or the blast freezing duration if a time controlled blast freezing has been selected
- the 4 digits display:
 - will show the blast chilling working setpoint if a temperature controlled blast chilling has been selected or the blast freezing working setpoint if a temperature controlled blast freezing has been selected
 - will be switched off if a time controlled blast chilling or a time controlled blast freezing has been selected.

During status "run":

- the 1 digit display will show the program number if one is running
- the 3 digits display:
 - will show the temperature read by the needle probe if a temperature controlled blast chilling or a temperature controlled blast freezing is running
 - will show the count down of the blast chilling duration if a time controlled blast chilling is running or the count down of the blast freezing duration if a time controlled blast freezing is running
- the 4 digits display will show the room temperature.

4.4 Showing the room temperature

Operate as follows:

1. Make sure the keyboard is not locked and no procedure is running.
 2. Press and hold button DOWN 2 s: the 3 digits display will show the first available label.
 3. Press and release button UP or button DOWN to select "Pb1".
 4. Press and release button BLAST CHILLING: the 4 digits display will show the room temperature.
- To quit the procedure operate as follows:
5. Press and release button BLAST CHILLING or do not operate 60 s: the 4 digits display will switch off.
 6. Press and release button UP or button DOWN as long as the display shows the variable indicated in the paragraph "The display" or do not operate 60 s.

