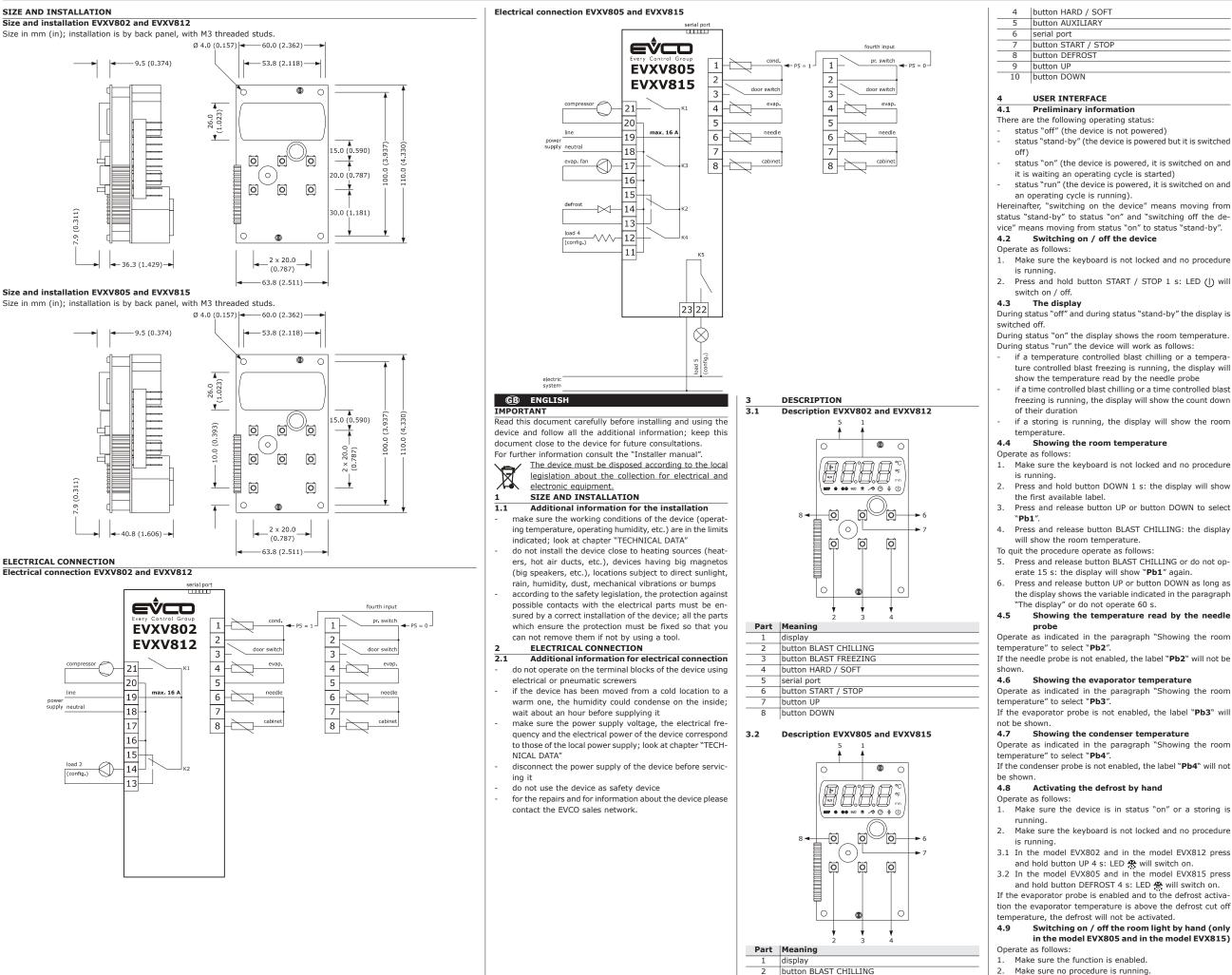
EVCO S.p.A. | Code 104XV800E123 | Page 1 of 2 | PT 19 / 13 EVXV 800 series - Controllers for blast chillers (which can be integrated into the unit)



2. Make sure no procedure is running

3 button BLAST FREEZING

status "stand-by" (the device is powered but it is switched

status "on" (the device is powered, it is switched on and

if a temperature controlled blast chilling or a temperature controlled blast freezing is running, the display will

if a time controlled blast chilling or a time controlled blast freezing is running, the display will show the count down

the display shows the variable indicated in the paragraph

Showing the temperature read by the needle

Switching on / off the room light by hand (only in the model EVX805 and in the model EVX815)

- 3. Press and release button AUXILIARY: LED AUX will switch on / off.
- 4.10 Locking / unlocking the keyboard
- To lock the keyboard operate as follows:
- Make sure no procedure is running.
- 2. Press and hold button DOWN and button START / STOP 1 s: the display will show "Loc" 1 s.
- To unlock the keyboard operate as follows:
- Make sure no procedure is running.
- 4. Press and hold button DOWN and button START / STOP 1 s: the display will show "UnL" 1 s.

4.11 Silencing the buzzer

Operate as follows:

1. Make sure no procedure is running.

2. Press and release a button OPERATION

5.1

Blast chilling and storing To start the cycle operate as follows:

- Make sure the device is in status "on"
- 2. Make sure the keyboard is not locked and no proce-
- dure is running.
- 3. Press and release button BLAST CHILLING: LED 🌺 and LED A will flash; according to the model, press and release button BLAST CHILLING again to start the cycle time controlled
- 4.1 According to the model, the display will show the working setpoint during the blast chilling or the blast chilling cut off temperature.
- 4.2 Press and release button UP or button DOWN in 15 s to modify these values.
- 5. Press and release button START / STOP: LED 🔆 will firmly remain switched on and it will be started the test for the verification of the proper insertion of the needle probe.
- 5.1 If the test is successfully completed, the cycle will be started.
- 5.2 If the test is not successfully completed, the cycle will be started time controlled.
- To stop the cycle operate as follows:
- 6. Press and release button START / STOP.
- 5.2 Hard blast chilling and storing
- To start the cycle operate as follows:
- 1. Make sure the device is in status "on"
- 2. Make sure the keyboard is not locked and no procedure is running.
- Press and release button BLAST CHILLING: LED 🐥 3. and LED A will flash; according to the model, press and release button BLAST CHILLING again to start the cycle time controlled.
- 4. Press and release button HARD / SOFT: LED HARD will flash
- 5.1 According to the model, the display will show the working setpoint during the blast chilling or the blast chilling cut off temperature
- 5.2 Press and release button UP or button DOWN in 15 s to modify these values.
- Press and release button START / STOP: LED 🐝 and LED HARD will firmly remain switched on and it will be started the test for the verification of the proper insertion of the needle probe.
- 6.1 If the test is successfully completed, the cycle will be started.
- 6.2 If the test is not successfully completed, the cycle will be started time controlled.
- To stop the cycle operate as follows:
- 7. Press and release button START / STOP.
- 5.3 Blast freezing and storing
- To start the cycle operate as follows:
- 1. Make sure the device is in status "on".
- 2. Make sure the keyboard is not locked and no procedure is runnina.
- 3. Press and release button BLAST FREEZING: LED 🔆 LED *** , LED HARD and LED ** will flash; according to the model, press and release button BLAST CHILLING again to start the cycle time controlled.
- 4.1 According to the model, the display will show the working setpoint during the blast freezing or the blast freezing cut off temperature
- 4.2 Press and release button UP or button DOWN in 15 s to modify these values.
- Press and release button START / STOP: LED 🚜 , LED and LED HARD will firmly remain switched on and it will be started the test for the verification of the proper insertion of the needle probe
- 5.1 If the test is successfully completed, the cycle will be started.
- 5.2 If the test is not successfully completed, the cycle will be started time controlled.
- To stop the cycle operate as follows:
- 6. Press and release button START / STOP.

5.4 Soft blast freezing and storing

- To start the cycle operate as follows:
- 1. Make sure the device is in status "on".
- 2. Make sure the keyboard is not locked and no procedure is running
- Press and release button BLAST FREEZING: LED & , LED 🔆 🔆 , LED HARD and LED 🦯 will flash; according to the model, press and release button BLAST CHILLING again to start the cycle time controlled.
- 4. Press and release button HARD / SOFT: LED HARD will switch off.
- 5.1 According to the model, the display will show the working setpoint during the blast freezing or the blast freezing cut off temperature.
- 5.2 Press and release button UP or button DOWN in 15 s to modify these values.
- Press and release button START / STOP: LED 🌺 and LED *** will firmly remain switched on and it will be started the test for the verification of the proper insertion of the needle probe.
- 6.1 If the test is successfully completed, the cycle will be started.
- 6.2 If the test is not successfully completed, the cycle will be started time controlled. To stop the cycle operate as follows
- 7. Press and release button START / STOP.

5.5 Starting the precooling

To start the precooling operate as follows:

- 1. Make sure the device is in status "on".
- Make sure no procedure is running.
- According to the model, switch on the device or press and hold button BLAST CHILLING 1 s: LED Jy will flash. To stop the precooling operate as follows:
- 4. Press and hold button BLAST CHILLING 1 s or start an operating cycle.

Switching on the UV light for the cycle of 56 sterilization (only in the model EVX805 and in the model EVX815)

Operate as follows:

- 1. Make sure the function is enabled.
- 2. Make sure the device is in status "on" and the door is closed, or the door switch input is not active. 3. Make sure the keyboard is not locked and no proce-
- dure is runnina 4. Press and hold button AUXILIARY 1 s: LED AUX will switch on

Needle probe heating (only in the model 5.7 EVX805 and in the model EVX815)

Operate as follows

- Make sure the function is enabled.
- 2. Make sure the device is in status "on" or a storing is running and the door is open, or the door switch input is active.
- 3. Make sure the keyboard is not locked and no procedure is running
- Press and hold button AUXILIARY 1 s: LED A will flash and LED **AUX** will switch on. STONALTNES AND INDICATION

6	SIGNALINGS AND INDICATIONS
6.1	Signalings
LED	Meaning
*	LED blast chilling
**	LED blast freezing
HARD	LED hard blast chilling / blast freezing
	LED temperature controlled blast chilling / tem-
	perature controlled blast freezing
\odot	LED time controlled blast chilling / time control-
•	led blast freezing
*	LED storing
	LED defrost
Å∽	LED precooling
AUX	LED auxiliary (only in the model EVXV805 and in
	the model EVXV815)
HACCP	LED HACCP
°C	LED Celsius degree
°F	LED Fahrenheit degree
min	LED minutes
Ú	LED on / stand-by

6.2 Indications

- Code Meaning Loc The keyboard is locked; look at paragraph "Locking / unlocking the keyboard" UnL The keyboard has been unlocked; look at para-
- graph "Locking / unlocking the keyboard"
- Resolution 0.1 °C (1 °F). Protection: none contact (free of voltage contact, 5 VDC, 2 mA).

Digital inputs Power supply: none Protection: none. tiME Alarm temperature controlled blast chilling or tem-Other inputs: 1 input which can be set via configuration perature controlled blast freezing not concluded parameter for analog input (condenser probe) / digital input (high pressure), with the same technical features illustrated previously. **Displays:** 4 digits custom display, with function icons. Digital outputs: 2 outputs (electromechanical relays) in EVXV802 and in Lack of power supply alarm (HACCP alarm; only in EVXV812 the model EVXV812 and in the model EVXV815) 1 SPST 30 res. A @ 250 VAC output (K1) for compressor

- management 1 SPDT 8 res. A @ 250 VAC output (K2) for defrost or
- evaporator fan management. 5 outputs (electromechanical relays) in EVXV805 and in
- EVXV815 1 SPST 30 res. A @ 250 VAC output (K1) for compressor
- management 1 SPDT 8 res. A @ 250 VAC output (K2) for defrost or
- evaporator fan management
- 2 SPST 8 res. A @ 250 VAC outputs (K3 and K4) for evaporator fan management and for door heater or condenser fan management
- 1 SPST 5 res. A @ 250 VAC output (K5) for room light, needle probe heater or UV light management. The maximum current allowed on the loads is 16 A.

Type of actions and additional features: 1C.

Communication ports: 1 TTL serial port with MODBUS communication protocol.

Pr4 Condenser probe error rtc Real time clock error (only in the model EVXV812 and in the model EVXV815)

TECHNICAL DATA

9.1 Technical data Purpose of the devices: controllers for blast chillers. Execution: open frame board.

within the maximum duration (HACCP alarm)

ESt Alarm download of the configuration parameters not

Erd Alarm upload of the configuration parameters not

Alarm firmwares of the configuration parameters

contained in EVKEY not coinciding with that of the

AH High temperature alarm (HACCP alarm)

ALARMS

AL Low temperature alarm

COH Overheated condenser alarm

successfully completed

successfully completed

CSd Locked compressor alarm

id Open door alarm

device

Errors

Errors

Pr1 Room probe error

Pr2 Needle probe error

Pr3 Evaporator probe error

Code Meaning

HP High pressure alarm

Alarms

Code Meaning

7.1

PF

CEr

8.1

- Size: 63.8 x 110.0 x 45.8 mm (2.511 x 4.330 x 1.803 in; W x H x D) for EVXV802 and EVXV812
 - 63.8 x 110.0 x 50.3 mm (2.511 x 4.330 x 1.980 in:
 - W x H x D) for EVXV805 and EVXV815.
- Installation: by back panel, with M3 threaded studs. Index of protection: IP00.

Connections: faston 6.3 mm (0.248 in) wide (power supply and outputs), fixed screw terminal block (inputs), 6 poles con-

- nector (serial port). Operating temperature: from 0 to 55 °C (from 32 to
- 131 °F). Storage temperature: from -25 to 60 °C (from -13 to 140
- Operating humidity: from 10 to 90% of relative humidity not condensing.

Pollution situation: 2.

Power supply:

- 230 VAC (±10%), 50 / 60 Hz, 2.3 VA max. or 115 VAC (±10%), 50 / 60 Hz, 2.3 VA max. in EVXV802 and in EVXV812
- 230 VAC (±10%), 50 / 60 Hz, 2.8 VA max. or 115 VAC (±10%), 50 / 60 Hz, 2.8 VA max. in EVXV805 and in EVXV815.

Overvoltage category: III.

- Real time clock: not available in EVXV802 and in EVXV805 incorporated (with capacitor) in EVXV812 and in EVXV815. Battery autonomy in the event of lack of power supply: 24 h with battery fully charged. Battery charging time: 2 min (the battery is charged by the power supply of the device). Signaling and alarm buzzer: incorporated. Analog inputs: 3 inputs (room probe, needle probe and evaporator probe), which can be set via configuration parameter for PTC / NTC probes PTC analog inputs (990 Ω @ 25 °C, 77 °F) Kind of sensor: KTY 81-121. from -50 to 150 °C (from -58 to Working range: 302 °F). Resolution: 0.1 °C (1 °F). Protection: none. NTC analog inputs (10K Ω @ 25 °C, 77 °F)
- Kind of sensor: ß3435. from -40 to 105 °C (from -40 to Working range 220 °F).
- Digital inputs: 1 input (door switch), which can be set via configuration parameter for normally open / normally closed



This document is exclusive property of EVCO; reproduction and disclosure are prohibited without express authorisation from EVCO. EVCO is not liable for any features, technical data and possible errors stated in this document or deriving from use of the same. EVCO cannot be considered liable for damages caused by failure to comply with warnings given in this document. EVCO reserves the right to make any changes without forewarning, without jeopardising the basic safety and operating features.