

### DESCRIPTION

The user interface is a capacitive touch keypad with display, combined with an electronics board controlling the basic functions of a blast chiller, called the base. The display features 3 white digits for viewing menus, operating variables, values and parameter labels, as well as 8 icons for indicating load status, programs in progress and alarm conditions.

The keypad consists of 8 keys for menu navigation, program setting, parameter configuration, alarm acknowledgment, etc. and 12 LED for displaying the status of the blast chiller and the programs in progress, symbols.



DISPLAY: ICONS						
*	Permanently on	Compressor on				
* <u>T</u> r	Switched off	Compressor off				
**	Permanently on	Defrost in progress				
	Blinking	Defrost required but not in progress (in progress at the nex useful event)				
	Switched off	Defrost off				
	Permanently on	Evaporator room fan on				
	Switched off	Evaporator room fan off				
	Permanently on	Manual program in progress, a time is shown on the display				
$\bigcirc$	Switched off	Manual program off				
	Permanently on	Alarm present				
	Switched off	Alarm absent				
°F	Permanently on	Automatic program in progress, a temperature in °F (degrees Fahrenheit) is shown on the display				
AUX	Reserved	Reserved				
°C	Permanently on	Automatic program in progress, a temperature in °C (degrees Centigrade) is shown on the display				

If the keypad is locked, **EWBC 800** ignores the pressing of any of its keys.

To unlock the keypad, press and hold any key for 7 sec.

The first time it is switched on, the display and the LEDs on the keypad are all switched off, except the LED for the (START/STOP) key.

Every time it is switched on subsequently, or after the power supply has been restored, the user interface carries out a lamp-test (all segments, icons and LEDs blink for a few seconds).

		KEYPAD: KEYS AND LEDs	
TEMP key	Single press	<ul> <li>In stop status, positive  (parameter tP) or negative  (parameter tn) blast chilling cycle selection, alternately. The corresponding LED comes on in accordance with the selected cycle.</li> <li>While the blast chilling cycle is in progress, displays the current target value.</li> <li>While a storage phase is in progress, displays the current storage set point value.</li> </ul>	
TARGET key         Single press         Single press         In stop status, manual (*) or automatic * blast chilling cycle selection, alternately.         The corresponding LED comes on in accordance with the selected cycle.			
MODE key       In stop status, soft A or hard P blast chilling cycle mode selection, alternately.         The corresponding LED comes on in accordance with the selected mode.			
DOWN key       • Buzzer acknowledgment.         Single press       • In parameter configuration, scroll through parameters.         • Decreases values.		In parameter configuration, scroll through parameters.	
UP key Single press • In parameter configuration, scroll through parameters. • Increases values.			
AUX/SET key	Single press	<ul> <li>In stop status, special sterilization function - uv/ or needle probe heating selection whether a selection whether a selected program.</li> <li>In parameter configuration, display parameter or confirm displayed parameter value.</li> </ul>	
	Press and hold	In stop status, deselects all special functions selected and switched off the corresponding LED.	
ESC key	Single press	<ul> <li>In stop status, selection of optional functions:         <ul> <li>defrost</li> <li>manual storage</li> <li>room light</li> <li>food unfreezing (EWBC 875 only)</li> <li>pre-cooking (EWBC 875 only)</li> <li>combined cycle unfreeze and pre-cooking (EWBC 875 only)</li> <li>clock setting (EWBC 875 only - with HCE = 1)</li> <li>HACCP alarm display (EWBC 875 only - with HCE = 1)</li> <li>alternately and LED activation.</li> </ul> </li> <li>In parameter configuration, confirm the value of the displayed parameter, exit parameter configuration or return to previous level</li> </ul>	
	Press and hold	In stop status, deselects all special functions selected and switched off the corresponding LED.	
START/STOP key	Single press	Start or stop the selected program or function, alternately.	
START	Press and hold	<ul> <li>In stop status, switch to stand-by status with LED activation.</li> <li>In stand-by status, switch to stop status with LED activation.</li> </ul>	
DOWN + UP key	Press and hold (2 s)	In stop status, <b>simultaneously</b> press the <b>DOWN</b> and <b>UP</b> keys for 2 seconds to access the configuration parameters.	
TIMEOUT LED	/	In automatic blast chilling cycle, lit and blinking indicates positive (parameter <b>t1</b> ) or negative (parameter <b>t2</b> ) timeout reached without the target temperature being reached (continues to blink during the following storage phase).	
RUNNING LED PRUNNING	1	If lit, indicates defrost program in progress.	

## **TECHNICAL DATA**

Power supply:	12 Vdc (provided by <b>EWBC 800</b> base board)		
Classe di isolamento:	2		
Temperature:	operating: -5 55 °C (23 131 °F) - storage: -30 85 °C (-22 185 °F)		
Ambient humidity:	operating / storage: 10 90 % (non-condensing)		
Base-Keypad connectors:	<b>BASE BOARD</b> : Screw-type terminal block for cables with a cross-section up to 2.5 mm <sup>2</sup> (13 AWG)		
	KEYPAD: JST 3-way quick connector		
Keypad dimensions:	296x64 mm (11.65x2.52 in.)		

## **MECHANICAL INSTALLATION AND DIMENSIONS**

Care must be taken to avoid damage from electrostatic sources when handling this device.

In particular exposed connectors and, in some cases, exposed printed circuit boards are exceptionally vulnerable to electrostatic discharge.

# **WARNING**

### UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE DAMAGE

- Keep device in the protective conductive packaging until you are ready to install the equipment.
- Only install device in approved enclosures and / or locations that prevent casual access and provide electrostatic discharge protection as defined by IEC 1000-4-2.
- Use a conductive wrist strap or equivalent field force protective device attached to an earth ground when handling sensitive device.
- Always discharge yourself by touching a grounded surface or approved antistatic mat before handling the device.

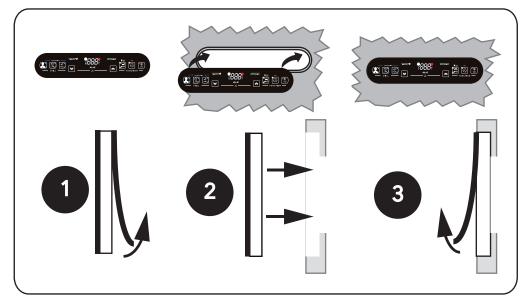
### Failure to follow these instructions can result in death, serious injury, or equipment damage.

Do not install **EWBC 800** in places subject to high humidity and/or dirt; it is intended for use in sites with ordinary or normal levels of pollution. Keep the area around the blast chiller cooling slots adequately ventilated. The user interface dimensions are:



The user interface should be fitted to a drilled and suitably outlined surface on the blast chiller. To install the user interface, proceed as follows:

- 1. clean the surface to remove any greasy, dusty or dirty residues;
- 2. remove the double-sided tape protection strip from the back of the user interface;
- 3. stick the user interface onto the drilled surface on the blast chiller;
- 4. remove the protective film from the front of the user interface.



# **ELECTRICAL CONNECTIONS**

# 🛦 🛦 DANGER

### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power from all equipment including connected devices, prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables and wires before applying power to the device.
- For all the devices where this is provided, confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

Failure to follow these instructions will result in death or serious injury.

# A DANGER

### **POTENTIAL FOR EXPLOSION**

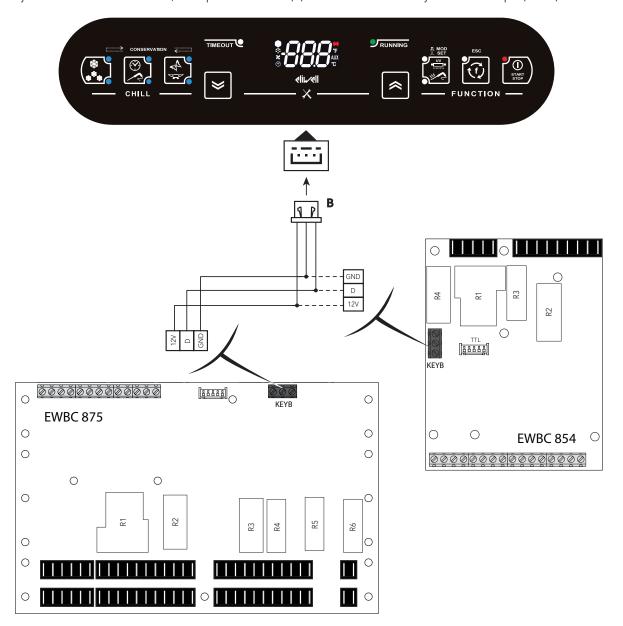
Install and use this equipment in non-hazardous locations only.

#### Failure to follow these instructions will result in death or serious injury.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.

No responsibility is assumed by Eliwell for any consequences arising out of the use of this material.

The maximum distance of he electrical connection between the base and the user interface is 15 m. The base can only be connected to one user interface, via the polarised connector (**B**) for connection to that base by means of a serial port (**COM2**).



# **SELECTING AND STARTING A PROGRAM**

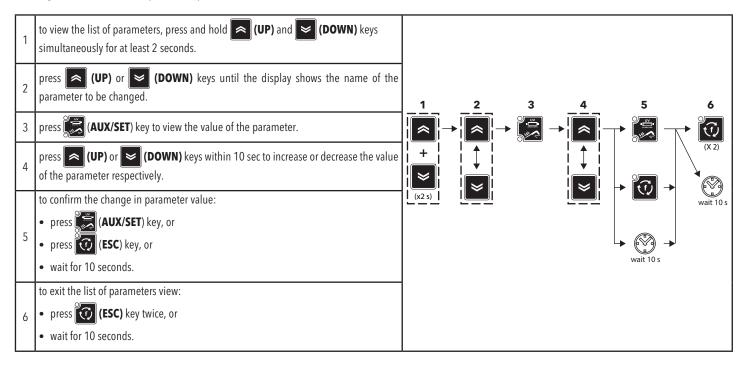
A program consists of a blast chilling cycle, automatically followed by a storage phase. To select a blast chilling cycle, set the following three criteria:

	BLAST CHILLING CYCLE TARGET VALUE						
1	press 🚒 (TEMP) key until one of the <b>tP</b> and <b>tn</b> parameter values is displayed.						
2	pressing the ( (TEMP) key repeatedly (at consecutive intervals of less than 3 seconds) changes the displayed data alternately, from the value set for the positive blast chilling cycle to the value set for the negative blast chilling cycle.						
3	press 🔊 (UP) and/or 💌 (DOWN) keys within 3 seconds if you want to change the temperature.						
	BLAST CHILLING CYCLE TARGET TYPE						
1	press 💓 (TARGET) until you select one of the blast chilling cycle target types: manual or automatic.	$1 \longrightarrow 2 \longrightarrow 3$					
2	pressing the <b>(TARGET)</b> key repeatedly (at consecutive intervals of less than 3 seconds) changes the displayed data alternately, from the value set for the manual target type to the value set for the automatic target type.						
3	press 🔊 (UP) and/or 💙 (DOWN) keys within 3 seconds if you want to change the timeout period.						
BLAST CHILLNG MODES							
1	press 💕 (MODE) key until you select one of the blast chilling cycle modes: Hard or Soft.						
2	pressing the 💓 (MODE) key repeatedly (at consecutive intervals of less than 3 seconds) changes the displayed data alternately, from the string 'Hrd' (Hard blast chilling mode) to the string 'SFt' (Soft blast chilling mode).						
To st	art a program, press (START/STOP) key: EWBC 800 emits a short beep and the LED <b>PRUNNING</b> comes on.						

Once the blast chilling cycle has finished, **EWBC 800** emits a beep lasting 2 seconds and automatically starts the storage phase.

# **VISIBLE PARAMETERS CONFIGURATION**

To change the value of a visible parameter, proceed as described below:



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### **RESPONSIBILITY AND RESIDUAL RISKS**

Eliwell Controls srl declines any liability for damage due to:

- unspecified installation/use and, in particular, in contravention of the safety requirements of the legislation in force in the Country of installation and/or specified in this document;
- use on blast chillers which do not provide adequate protection against electrocution, water and dust in the actual installation conditions;
- use on blast chillers allowing access to dangerous parts without having to use tools;
- tampering with and/or modification of the product;
- installation/use on blast chillers that do not comply with the regulations in force in the Country of installation.

### **CONDITIONS OF USE**

#### **PERMITTED USE**

This product should be used to control professional blast chillers. For safety reasons, the product must be installed and used in accordance with the instructions provided. In particular, parts carrying dangerous voltages must not be accessible under normal conditions. It must be adequately protected from water and dust according to the application, and must be accessible only using a tool. The product is suitable for use in a blast chiller for professional refrigeration appliances and has been tested for safety aspects in accordance with the harmonized European reference standards.

#### **PROHIBITED USE**

Any use other than that expressly permitted is prohibited. The relay contacts provided are mechanical and subject to failure: any protection devices required by reference standards, or suggested by good practice in view of obvious safety requirements, must be installed externally of the product.

### DISPOSAL



The equipment (or product) must be subjected to separate waste collection in compliance with the local legislation on waste disposal.

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