L2G FRANCE
FOOD PROCESS EQUIPMENT
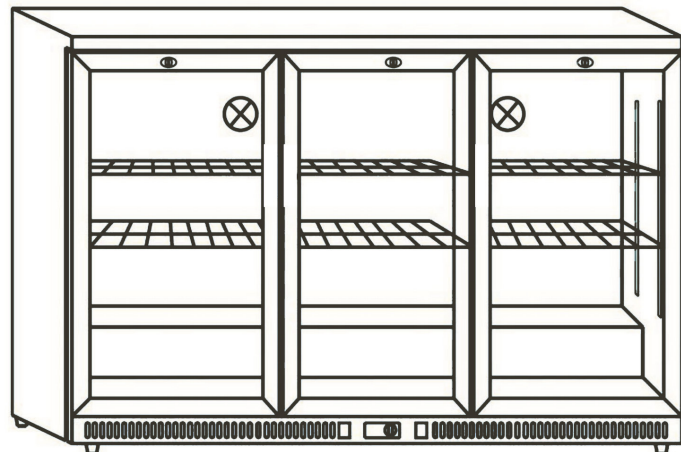**bm** Productions

USER MANUAL
BACK BAR BOTTLE COOLER

MODEL: BBS130
MODEL: BBD230
MODEL: BBT350
MODEL: BBC208S
MODEL: BBC330S

English - Original

Index

HOW TO USE

Before use
1. Remove shipping package, tape, etc. Also leave the doors open for ventilation.
2. The unit is cleaned before shipment. However, clean the compartment interior once after delivery.
3. Please insert the power supply plug into the wall outlet, single-phase to cat voltage.
4. Allow the unit to operate for about 1 hour to cool the compartment before placing items in the cooler.

Wait 5 minutes or more before re-starting
Restarting the unit immediately after it has been turned off may cause fuses to blow and activate the circuit-breaker, the compressor may be overloaded, and/or damage may occur.

Temperature adjustment
The thermostat is pre-set at the factory. To adjust it, turn right for temperature inside the cooler to go down. To raise the temperature, turn it left. Excessive refrigeration will increase electricity consumption unnecessarily.

Drain tray
Defrosting is performed automatically and drain water is collected in the drain tray.
Water in the drain tray is evaporated automatically. It is recommended that you clean out your drain tray at least once a day.

Efficient use
Please follow the below instruction, you could save energy.
To prevent cold air from escaping, open and close the door quickly and keep the door opened for as short a time as possible.
Please install the unit in the place which is well-ventilated.

Shelf height adjustment
The shelf height can be adjusted.
Arrange the shelves in accordance with the dimension of the items to be placed inside the cooler.

Placing items in the bottle cooler

This bottle cooler employs a forced circulation of cold air system. If circulation of cold air is obstructed, the items will
not be adequately refrigerated. Pay attention to the following points:

• Do not let items obstruct the cold air inlet and suction outlet.
• Place items so that they do not protrude from the shelves. The gap between the shelves and the door is used for circulation of cold air.
• Place items evenly on all shelves.
• Please do not display goods on the bottom. Please try to keep them on the shelves.

Setting the temperature

Operation

Control Panel

For full specification and detailed instructions, please consult the included Dixell manual.
The control panel is located below the doors on the front of the appliance.

Turn On

1. Turn the power switch on.
2. Set the temperature to the desired setting (see below).
3. Close the door of bottle cooler.
4. Connect the bottle cooler to a mains power supply.
5. Turn the light switch on [I] or off [O] as required .

Set the Operating Temperature

1. Press the {set} button. The display will flash.
2. Press the {up arrow} or {down arrow} to display the required temperature.
3. Press the {set} button to store the temperature.

Manual Defrost

The bottle Cooler features an automatic defrost. However, should the appliance require an additional defrost period
press and hold the {defrost} button for 6 seconds.

Automatic defrost cycles are every 6 hours and last 20 minutes (factory defaults).

To stop the defrost press and hold the 'defrost' button for 6 seconds.

SAFETY PRECAUTIONS

- To ensure proper use, please thoroughly study these SAFETY PRECAUTIONS before operating the unit.
- The purpose of the safety precautions in this manual is to ensure safe and correct use of the unit to minimize risks that could cause serious damage to either the machine or persons operating it. The safety precautions are divided into warnings and cautions.
- Improper handling of the unit could lead to death or serious injuries, these are listed under the 'WARNING' tab. However, the cases listed 'CAUTION' heading could also lead to serious injuries. To ensure your safety, adhere strictly to both types of safety precautions.
- After reading the instruction manual, store it in a safe and easily accessed place where you can easily go back to it if needed.
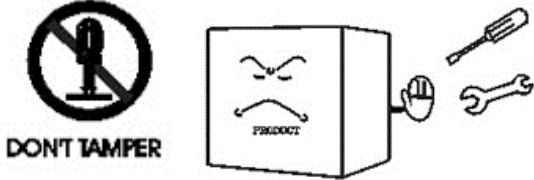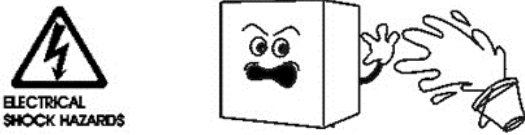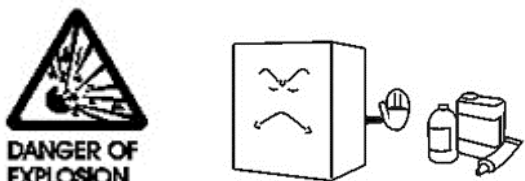
PRECAUTIONS FOR INSTALLATION

WARNING
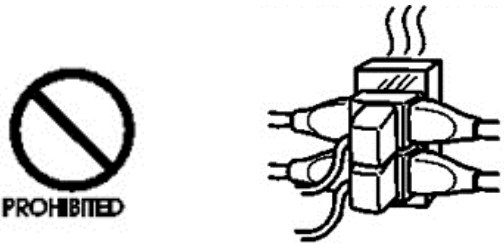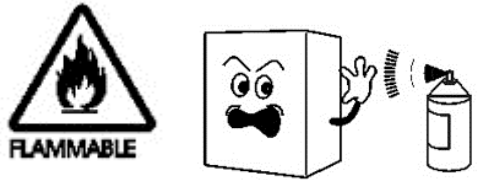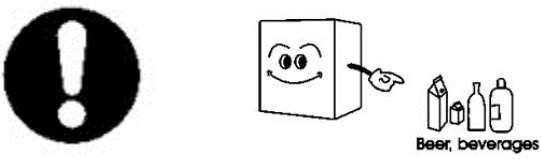
Installation should be performed only be the dealer or a qualified expert, attempting to install the unit yourself could result in water leakage, refrigerant leakage, electrical shock, or a fire.
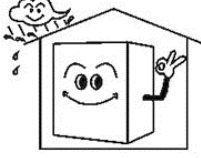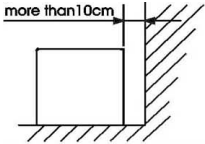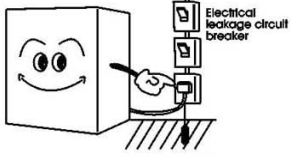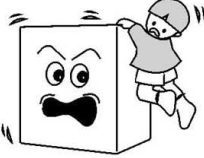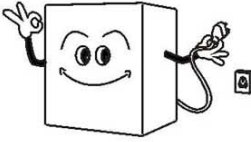
PRECAUTIONS FOR USE
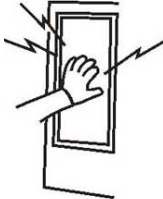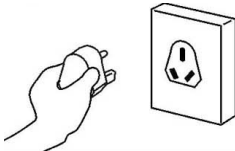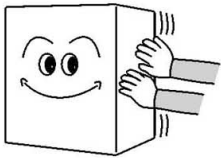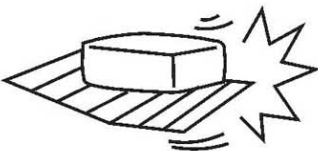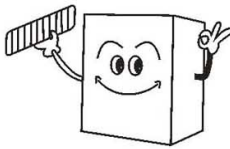
WARNING :

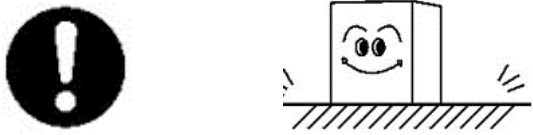|	
All repairs, disassembly and modifications should be performed only by qualified technicians. Attempting to perform this yourself, could result in a fire, malfunction or an injury.	Never splash water directly onto the product or wash with water as a short circuit and electrical leakage could result.
Never put flammable or volatile substances into the unit as explosions or fires could result.	Do not damage, modify, excessively bend, strain, twist or bundle up the power cord. Also, placing heavy objects on the power cord or squeezing it into a tight space could result in damage to the cord, which may lead to an electrical shock or a fire.

5

L2G SAS 17, AVENUE DU 24 AOÛT 1944
BP90690-69969 CORBAS CEDEX
TÉL. : +33(0)4 72 23 23 98 FAX : +33(0)4 72 23 23 99

Use a dedicated wall outlet. Do not use extensions cords or convenience receptacies as this could result in overheating, which could lead to fires or an electrical shock.	Never use flammable spray cans or leave flammable substances near the unit. Sparks from electrical switches could result in the flammable substance catching fire or exploding .
The cooler is intended for storage and display of beer and beverages for sale. Do not use for other purposes than the intended as this could adversely affect items placed in the unit.	Never attempt to insert fingers, sticks, etc. into the cold air suction outlet. A circulation fan is rotating at high speed inside the outlet. Injury, electrical shock and improper operation could result.
For indoor use only. Using the unit in a location exposed to rain could result in electrical leakaqe and electrical shock.	Never place heavy objects or items containing water on top of the unit. Objects could fall down and cause injury and spilled water could deteriorate the insulation of electrical components.
Install the unit in a location where the floor is sturdy enough to support the load of the unit, if the floor is not sturdy enough or instillation is incorrectly performed, the unit could tip over and falling shelves and products could cause personal injury.	If you find gas leakage, please don't touch the cooler, ciose all gas valves and open the door for ventilation. Gas leakage could cause an explosion or start a fire.

Store the unit in a location where it is not exposed to rain. Using a unit that has been exposed to rain could result in electrical leakage and electrical shock.

Place the unit away from hot air sources, the cooling performance is reduced if the unit is place near heat sources such as stoves, or if it exposed to direct sunlight.

Leave disassembly and disposal of the unit to qualified experts.

Should the unit need temporary storage, make sure not to store the unit in a location where children play and take precautions so that the door cannot be completely ciosed. This will minimize the risk that a child becomes trapped inside the compartment.

Please make sure there is more than 10cm between the wall and the cooler. If there is no space, the cooling capacity can drop.

If installation in a damp location is unavoidable, also install an electrical leakage circuit breaker. If there is no electrical leakage breaker, this may result in electric shock.

Never hang from the door or climb onto the unit. The unit could tip over and fall and cause the glass to smash or injure someone.

Disconnect the power cord plug from the wall outlet before moving the unit and make sure that the power cord is not damaged during transport. A damaged power cord could result in electrical shock and/or a fire.

DON'T PINCH FINGERS	**Do not touch**
Grasp the handle when closing the door. Holding at other positions could result in you trapping your fingers.	Do not apply excessive force to the glass surfaces as the glass could break/smash and cause injury to person/persons.
When disconnecting the power cord plug from the wall outlet, hold at the plug main body, close to the outlet. Pulling on the cord could cause the wire to break, possibly resulting in overheating and a fire .	Make sure that the unit does not tip over or fall when it is moved. A falling unit could cause serious injury.
PROHIBITED Do not throw items onto the shelves and do not place items totalling more than 30Kg on each shelf. The shelf could fall, causing injury or break the shelf itself.	Be sure to attach and secure shelves correctly. An improperly attacked shelf could fall down and cause injury or break the shelf.

⚠ WARNING: Do not splash water directly onto the cooler and do not wash the appliance with water. Short - circuit and electrical shock could result.

- Clean the cooler regularly to keep it clean at all times.
- Never use polishing powder, soap powder, benzene, oil or hot water as these will damage the painting and plastic components.

After cleaning

To ensure the safety, perform the following checks after cleaning the appliance.
- Is the power cord firmly inserted into a dedicated wall outlet? Confirm that the plug is not abnormally hot.
- Check the power cord for cracks and damage. Should the slightest irregularity be observed, contact the dealer from whom you purchased this unit or our customer service team on 01229 480001.

IN CASE OF THE FOLLOWING

Power failure

Keep opening and closing the door to a minimum.
Avoid placing new items in the cooler as this will raise the temperature inside the compartment.

When not used for a long period

Remove all items from the compartment and disconnect the power cord plug from the wall outlet.
Clean the compartment interior and wipe away all water.
To prevent mould formation and bad smell, leave the door open to dry the compartment completely.

Transportation

Disconnect the power cord plug from the wall outlet.
When moving the cooler, make sure that the feet do not damage the power cord.
Do not let the feet hit against floor steps, thresholds, etc.

Temporary storage

Affix a piece of wood, etc. between the door and the main unit to prevent complete closing of the door.
Make sure not to store the unused cooler at a location where children play. Should a child enter the compartment and the door is closed, the child may not be able to open the door from the inside.

BEFORE	REQUESTING
No refrigeration at all	• Is the power supply interrupted? • Is the power cord plug disconnected from the wall outlet? • Are the shop 's power fuses blown and/or the circuit breaker activated?
Inadequate refrigeration	• Is the temperature setting appropriate? • Are items obstructing the cold air inlet and suction outlet? • Are stored items packed too tight? • Is the door open or is it opened and closed frequently? • Is the condenser clogged?
Excessive noise	• Are all the feet in firm contact with the floor? • Is the rear panel of the cooler contacting the wall or other objects? • Is anything in contact with the cooler? E.g . boxes, mops, brushes etc.
Condensation on cooler exterior	• You may find that on hot and humid days there may be times w here a lot of condensation will condense on the exterior and door of the cooler, this is completely normal, clean away the condensation with a cloth .

REQUIRED INFORMATION

1. Nature of malfunction (as accurately as possible).

2. Product number/serial number (inscribed on the badge).

3. Your name, address & contact details.

4. Year and date of purchase.

Dixell | *Installing and operating instructions* | **EMERSON**

DIGITAL CONTROLLER
XR03CX

1. GENERAL WARNINGS

PLEASE READ BEFORE USING THIS MANUAL

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.
- Dixell Srl reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

SAFETY PRECAUTIONS

- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent formation of condensation
- Warning: disconnect all electrical connections before any kind of maintenance.
- Fit the probe where it is not accessible by the End User. The instrument must not be opened.
- In case of failure or faulty operation send the instrument back to the distributor or to "Dixell S.p.A." (see address) with a detailed description of the fault.
- Consider the maximum current which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough from each other, without crossing or intertwining.
- In case of applications in industrial environments, the use of mains filters (our mod. FT1) in parallel with inductive loads could be useful.

2. GENERAL DESCRIPTION

The XR04CX, in 32×74x50mm short format, is microprocessor based controller suitable for applications on normal or low temperature refrigerating units. It provides two relay output: one for compressor and the other one for defrost. It provides two NTC probe inputs, one for room temperature and other one to control defrost termination. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or the by HOTKEY..

3. REGULATION

The regulation is performed according to the temperature measured by the thermostat probe with a positive differential from the set point: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again.
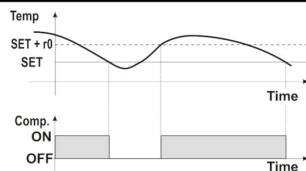
In case of fault in the thermostat probe the start and stop of the compressor are timed through parameters "**Cy**" and "**Cn**".

4. DEFROST

Defrost is performed through a simple stop of the compressor. Parameter "**id**" controls the interval between defrost cycles, while its length is controlled by parameter "**Md**".

5. FRONT PANEL COMMANDS

SET
To display target set point, in programming mode it selects a parameter or confirm an operation

❄ To start a manual defrost

⌃ In programming mode it browses the parameter codes or increases the displayed value

⌄ AUX In programming mode it browses the parameter codes or decreases the displayed value

KEYS COMBINATION

⌄ + ⌃ To lock or unlock the keyboard
SET + ⌄ To enter in programming mode
SET + ⌃ To return to room temperature display

LED	MODO	SIGNIFICATO
❄	On	Compressore enabled
❄	Flashing	Anti short cycle delay enabled (AC parameter)
❄	On	Defrost in progress
❄	Flashing	Dripping in progress
°C	On	Measurement unit
°F	Flashing	Programming mode
°F	On	Measurement unit
°F	Flashing	Programming mode

HOW TO SEE THE SET POINT

1. Push and immediately release the **SET** key, the set point will be showed;
2. Push and immediately release the **SET** key or wait about 5s to return to normal visualisation.

HOW TO CHANGE THE SETPOINT

1. Push the SET key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
3. To change the Set value push the o or n arrows within 10s.
4. To memorise the new set point value push the SET key again or wait 10s.

HOW TO START A MANUAL DEFROST (ONLY XR02CX)

Push the **DEF** ❄ key for more than 2 seconds and a manual defrost will start

HOW TO CHANGE A PARAMETER VALUE

To change the parameter's value operate as follows:
1. Enter the Programming mode by pressing the **SET**+ ⌄ keys for 3s ("**°C**" or "**°F**" LED starts blinking).
2. Select the required parameter. Press the "**SET**" key to display its value
3. Use ⌃ or ⌄ to change its value.
4. Press "SET" to store the new value and move to the following parameter.
To exit: Press SET+ ⌃ or wait 15s without pressing a key.
NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire.

HIDDEN MENU

The hidden menu includes all the parameters of the instrument.

HOW TO ENTER THE HIDDEN MENU

1. Enter the Programming mode by pressing the **SET**+ ⌄ keys for 3s ("**°C**" or "**°F**" LED starts blinking).
2. Released the keys, then push again the **SET**+ ⌄ keys for more than 7s. The L2 label will be displayed immediately followed from the Hy parameter.
   NOW YOU ARE IN THE HIDDEN MENU.
3. Select the required parameter.
4. Press the "**SET**" key to display its value
5. Use ⌃ or ⌄ to change its value.
6. Press "**SET**" to store the new value and move to the following parameter.
To exit: Press SET+ ⌃ or wait 15s without pressing a key.
NOTE1: if none parameter is present in L1, after 3s the "nP" message is displayed. Keep the keys pushed till the L2 message is displayed.
NOTE2: the set value is stored even when the procedure is exited by waiting the time-out to expire.

HOW TO MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND VICEVERSA.

Each parameter present in the HIDDEN MENU can be removed or put into "THE FIRST LEVEL" (user level) by pressing **SET**+ ⌄. In HIDDEN MENU when a parameter is present in First Level the decimal point is on.

TO LOCK THE KEYBOARD

1. Keep pressed for more than 3s the ⌃ and ⌄ keys.
2. The "OF" message will be displayed and the keyboard will be locked. If a key is pressed more than 3s the "OF" message will be displayed.

TO UNLOCK THE KEYBOARD

Keep pressed together for more than 3s the ⌃ and ⌄ keys till the "**on**" message will be displayed.

6. PARAMETERS

REGULATION

Hy **Differential**: (0,1°C ÷ 25°C / 1°F ÷ 45°F) Intervention differential for set point. Compressor Cut IN is SET POINT + differential (Hy). Compressor Cut OUT is when the temperature reaches the set point.

LS **Minimum SET POINT**: (-55°C÷SET/-67°F÷SET): Sets the minimum value for the set point..

US **Maximum SET POINT**: (SET÷99°C/ SET÷99°F). Set the maximum value for set point.

ot **First probe calibration**: (-9.9÷9.9°C /-17÷17°F) allows to adjust possible offset of the first probe.

P2 **Evaporator probe presence**: n= not present; y= the defrost stops by temperature.

oE **Second probe calibration**: (-9.9÷9.9°C / -17 ÷ 17°F) allows to adjust possible offset of the second probe.

od **Outputs activation delay at start up**: (0÷99 min) This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.

AC **Anti-short cycle delay**: (0÷50 min) minimum interval between the compressor stop and the following restart.

Cy **Compressor ON time with faulty probe**: (0÷99 min) time during which the compressor is active in case of faulty thermostat probe. With **Cy**=0 compressor is always OFF.

Cn **Compressor OFF time with faulty probe**: (0÷99 min) time during which the compressor is OFF in case of faulty thermostat probe. With **Cn**=0 compressor is always active.

DISPLAY

CF **Measurement unit**: (°C÷°F) **°C** =Celsius; **°F** =Fahrenheit. **WARNING**: When the measurement unit is changed the SET point and the values of the parameters Hy, LS, US, oE, o1, AU, AL have to be checked and modified if necessary).

rE **Resolution (only for °C)**:(dE ÷ in) **dE**= decimal between -9.9 and 9.9°C; **in**= integer

dy **Display delay**: (0.0÷15min) when the temperature increases, the display is updated of 1 °C/1°F after this time.

DEFROST

id **Interval between defrost cycles**: (0÷99 ore) Determines the time interval between the beginning of two defrost cycles.

Md **Maximum length for defrost**: (0÷99 min. with 0 no defrost) when **ot**=n, (not evaporator probe: timed defrost) it sets the defrost duration, when ot = y (defrost end based on temperature) it sets the maximum length for defrost.

Dixell | *Installing and operating instructions* | **EMERSON**

dF **Display during defrost:** (rt / it / SP / dF) **rt**= real temperature; **it**= start defrost temperature; **SP**= SET-POINT; **dF**= label **dF.**

FANS

FC **Fans operating mode:** (cn, on, cY, oY) **cn**=in runs with the compressor, OFF during defrost; **on**=continuous mode, OFF during defrost; **cY**=runs with the compressor, ON during defrost; **oY**=continuous mode, ON during defrost.

Fd **Fans delay after defrost:** (0 ÷ 99min) Interval between the end of a defrost operation and the next evaporator fans start.

FS **Fans stop temperature:** (-55 ÷ 50°C; -67 ÷ 99°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.

ALARMS

AU **Maximum temperature alarm:** (AL÷99°C) when this temperature is reached the alarm is enabled, after the "**Ad**" delay time.

AL **Minimum temperature alarm:** (-55÷AU°C) when this temperature is reached the alarm is enabled, after the "**Ad**" delay time.

Ad **Temperature alarm delay:** (0÷99 min) time interval between the detection of an alarm condition and alarm signalling.

dA **Exclusion of temperature alarm at startup:** (0÷99 min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.

AP **Alarm relay polarity (cL-OP): cL**= when active is closed; **OP**= when active is opened

DIGITAL INPUT

iP **Digital input polarity:** (oP ÷ cL) **oP**= activated by closing the contact; **cL**= activated by opening the contact;

iF **Digital input configuration:** (EA/bA/do/dF/Au/Hc) **EA**= external alarm: "EA" message is displayed; **bA**= serious alarm "CA" message is displayed; **do**= door switch function; **dF**= defrost activation; **Au** =not used; **Hc**= inversion of the kind of action;

di **Digital input delay:** (0÷99 min) with **iF=EA** or **bA** delay between the detection of the external alarm condition and its signalling. . With **iF=do** it represents the delay to activate the door open alarm.

dC **Compressor and fan status when open door:** (no/Fn/cP/Fc): **no**= normal; **Fn** = Fans OFF; **cP** =Compressor OFF; **Fc** = Compressor and fans OFF;

rd **Regulation with door open:** (n÷y) **n** = no regulation if door is opened; **Y**= when di is elapsed regulation restarts even if door open alarm is present;

OTHER

d1 Thermostat probe display (read only)
d2 Evaporator probe display (read only)
Pt Parameter code table
rL Software release

7. DIGITAL INPUTS

The free voltage digital input is programmable in different configurations by the "**iF**" parameter.

DOOR SWITCH (iF=do)

It signals the door status and the corresponding relay output status through the "**dC**" parameter: **no**= normal (any change); **Fn** = Fan OFF; **CP** = Compressor OFF; **FC** = Compressor and fan OFF. Since the door is opened, after the delay time set through parameter "**di**", the door alarm is enabled, the display shows the message "**dA**" **and the regulation restarts if rd = y.** The alarm stops as soon as the external digital input is disabled again. With the door open, the high and low temperature alarms are disabled.

EXTERNAL ALARM (iF=EA)

As soon as the digital input is activated the unit will wait for "**di**" time delay before signalling the "**EA**" alarm message. The outputs status don't change. The alarm stops just after the digital input is de-activated.

SERIOUS ALARM (iF=bA)

When the digital input is activated, the unit will wait for "**di**" delay before signalling the "**CA**" alarm message. The relay outputs are switched OFF. The alarm will stop as soon as the digital input is de-activated.

START DEFROST (iF=dF)

It starts a defrost if there are the right conditions. After the defrost is finished, the normal regulation will restart only if the digital input is disabled otherwise the instrument will wait until the "**dd**" safety time is expired.

INVERSION OF THE KIND OF ACTION: HEATING - COOLING (iF=Hc)

This function allows to invert the regulation of the controller: from cooling to heating and viceversa.

8. INSTALLATION AND MOUNTING
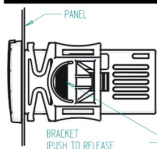
Instrument **XR03CX** shall be mounted on vertical panel, in a 29x71 mm hole, and fixed using the special bracket supplied. The temperature range allowed for correct operation is 0÷60 °C. Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let air circulate by the cooling holes.

9. ELECTRICAL CONNECTIONS

The instrument is provided with screw terminal block to connect cables with a cross section up to 2,5 mm². Before connecting cables make sure the power supply complies with the instrument's requirements. Separate the probe cables from the power supply cables, from the outputs and power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay.

9.1 PROBES

The probes shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the thermostat probe away from air streams to correctly measure the average room temperature. Place the defrost termination probe among the evaporator fins in the coldest place, where most ice is formed, far from heaters or from the warmest place during defrost, to prevent premature defrost termination.

10. HOW TO USE THE HOT KEY

10.1 HOW TO PROGRAM THE HOT KEY FROM THE INSTRUMENT (UPLOAD)

1. Program one controller with the front keypad.
2. When the controller is ON, insert the "Hot key" and push ⌃ key; the "**uP**" message appears followed a by flashing "**Ed**"
3. Push "**SET**" key and the "**Ed**" will stop flashing.
4. Turn OFF the instrument remove the "Hot Key", then turn it ON again..

NOTE: the "**Er**" message is displayed for failed programming. In this case push again o key if you want to restart the upload again or remove the "Hot key" to abort the operation.

10.2 HOW TO PROGRAM AN INSTRUMENT USING HOT KEY (DOWNLOAD)

1. Turn OFF the instrument.
2. Insert a **programmed "Hot Key" into the 5 PIN receptacle** and then turn the Controller ON.
3. Automatically the parameter list of the "Hot Key" is downloaded into the Controller memory, the "**do**" message is blinking followed a by flashing "**Ed**".
4. After 10 seconds the instrument will restart working with the new parameters.
5. Remove the "Hot Key"..

NOTE: the "**Er**" message is displayed for failed programming. In this case push again o key if you want to restart the upload again or remove the "Hot key" to abort the operation.

11. ALARM SIGNALLING

Mess.	Cause	Outputs
"P1"	Room probe failure	Compressor output according to "Cy" e "Cn"
"P2"	Evaporator probe failure	Defrost end is timed (Only XR04CX)
"HA"	Maximum temperature alarm	Outputs unchanged
"LA"	Minimum temperature alarm	Outputs unchanged
"EA"	External alarm	Outputs unchanged
"CA"	Serious external alarm	All outputs OFF.
"dA"	Door Open	Compressor and fans restarts

11.1 ALARM RECOVERY

Probe alarms "**P1**" and "**P2**" start some seconds after the fault in the related probe; they automatically stop some seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "**HA**" and "**LA**", automatically stop as soon as the temperature returns to normal values.
Alarms "**EA**" and "**CA**" (with iF=bL) recover as soon as the digital input is disabled.

12. TECHNICAL DATA

Housing: self-extinguishing ABS
Case: frontal 32x74 mm; depth 50mm
Mounting: panel mounting in a 71x29mm panel cut-out
Protection: IP20; **Frontal protection:** IP65
Connections: Screw terminal block ≤ 2,5 mm² wiring, Torsion <0.4Nm
Power supply: according to the model: 230Vac ±10%, 50/60Hz
Power absorption: 3.5 VA max
Display: 3 digits, red LED, 14,2 mm high; **Inputs:** Up to 2 NTC probes.
Digital input: free voltage contact (if present)
Relay outputs: compressor SPST 20(8)A 250Vac or 8(3) A 250Vac;
     Fan: SPDT 8(3) A 250Vac
Data storing: on the non-volatile memory (EEPROM)
Kind of action: 1B; **Pollution grade:** 2; **Software class:** A
Rated impulsive voltage: 2500V; **Overvoltage Category:** II
Operating temperature: 0÷60 °C; **Storage temperature:** -25÷60°C
Relative humidity: 20÷85% (no condensing)
Measuring and regulation range: NTC -40÷110°C
Resolution: 0,1 °C or 1°C (selectable); **Accuracy (ambient temp. 25°C):** ±0,1 °C ±1 digit

13. CONNECTIONS

13.1 XR03CX – 20A COMPRESSOR
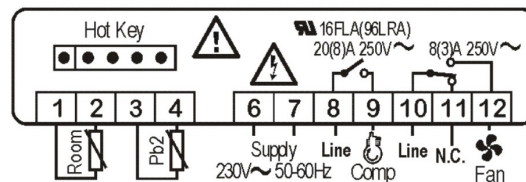
14. DEFAULT SETTING VALUES

LABEL	DESCRIPTION	RANGE	DEFAULT
REGULATION			
Hy	Differential	0.1 ÷ 25.5°C/1 ÷ 45°F	3.0°C
LS	Minimum Set Point	-55°C÷SET/-67°F÷SET	-55 °C
US	Maximum Set Point	SET÷99°C/ SET÷99°F	99° C
ot	Thermostat probe calibration	-9.9÷9.9°C/-17÷17°F	0.0
P2	Second probe presence	n – Y	n
oE	Second probe calibration	-9.9÷9.9°C/-17÷17°F	0.0

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|			
od	Outputs activation delay at start up	0 ÷ 99 min	0
AC	Anti-short cycle delay	0 ÷ 50 min	1
Cy	Compressor ON time faulty probe	0 ÷ 99 min	15
Cn	Compressor OFF time faulty probe	0 ÷ 99 min	30
DISPLAY			
CF	Temperature measurement unit	°C - °F	°C
rE	Resolution (only for °C)	dE – in	dE
dy	Display delay	0.0 ÷ 15min	0
DEFROST			
id	Interval between defrost cycles	0 ÷ 99 hours	8
Md	Maximum length for defrost	0 ÷ 255 min	20
dF	Display during defrost	rt – in – SP – dF	it
FANS			
FC	Fan operating mode	Cn-On-Cy-Oy	Cy
Fd	Fan delay after defrost	0 ÷ 99 min	0
FS	Fan stop temperature	-55÷50°C/-67 ÷ 99° F	20°C
ALARMS			
AU	Maximum temperature alarm	ALL÷99°C / ALL÷99°F	99 °C / 99 °F
AL	Minimum temperature alarm	-55°C÷ALU/-67°F÷ALU	-55 °C / -55 °F
Ad	Temperature alarm delay	0 ÷ 99 min	15
dA	Exclusion of temperature alarm at start up	0 ÷ 99 min	90
AP	Defrost at power –on	cL-OP	cL
DIGITAL INPUT			
di	Digital input delay	0 ÷ 99 min	15
iP	Digital input polarity	CL/oP	CL
iF	Digital input configuration	EA/CP/do/Df/Au/Hc	do
dC	Compressor and fan status when open door	no /Fn / cP / Fc	no
rd	Regulation with door open	n – Y	y
OTHER			
d1	Room probe display	Read Only	- - -
d2	Evaporator probe display	Read Only	- - -
Pt	Parameter code table	Read Only	- - -
rL	Firmware release	Read Only	- - -

STANDARDS AND DIRECTIVES

The device complies with current EU standards and directives. If necessary, we will send you the corresponding declaration of conformity.

PACKAGING DISPOSAL

Please separate the packaging materials accordingly and return them to the responsible collection points for recycling and environmental housing.
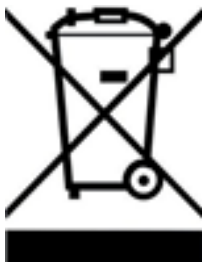
DEVICE DISPOSAL

Once the appliance has been used up, dispose of it properly at a collection point for electrical appliances. Electrical appliances do not belong in household waste.

Your responsible administration will inform you about the addresses and opening hours of collection points. This is the only way to ensure that old appliances are properly disposed of and recycled. Thank you very much!

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Productions

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