

# XRB-CH v 1.8

Bottle cooler controllers with advanced functions

PN 09/21 December



New available **XRB77CH** model



R290

CO<sub>2</sub>

R600a

Dear Customer,

the new 1.8 version of the Lumity™ XRB family stands out for its several new functions. For example, thanks to the support for X-MOD motion detectors, it is now possible to optimize energy consumptions also by turning the lights off when the conditions allow it, e.g. when users are not near the cabinet. Moreover, the other newly introduced functions in the 1.8 version broadens the range of applications where XRB controllers can be used.

For instance, the synchronized defrosts are very useful where there are several cabinets in the same store, while the multi map function allows to manage 2 different configuration settings (e.g. static or ventilated coolers, or °C and °F measurement unit when used in different geographical areas). The family is now complete with the introduction of the top-of-the-line XRB77CH model, equipped with both motion detector and RS485 serial port.

## 1. New functions

The 1.8 version includes important functions that contribute to improve the energy management of refrigerated cabinets, by optimizing the light ON time and modifying the functioning set point based on the real conditions of the cabinet where the XRB controller is installed.

### 1.1 Integration of X-MOD motion detector

The new version is compatible with the X-MOD series motion detector. Thanks to this accessory, now it is possible to optimize both the light switch-on and off (the light is ON until any presence is detected near the cabinet), and the regulation temperature (set point increase when no movements are detected for a determined period of time).



### 1.2 Synchronized defrosts

It is possible to create a small network of XRB controllers and activate the synchronized defrost function. This allows to coordinate the defrost cycles on more cabinets in an easy and efficient way, by simply configure a digital input as “dEF” on each device and daisy-chain all digital inputs of all XRB of the same line.

### 1.3 Multi map function

Originally, the XRB family supports 2 independent parameter maps that allow the user to select the one that best suits the application, therefore highly reducing the startup time of the unit.

## 2. New model

The XRB family increases its range with the new top-of-the-line model XRB77CH, which can be simultaneously connected both to the X-MOD motion detector and to the monitoring system through a 2-wire RS485 serial port.

Just like for the other models of the XRB family, the XRB77CH features enhanced functions specifically developed to optimize the energy management and the application control.



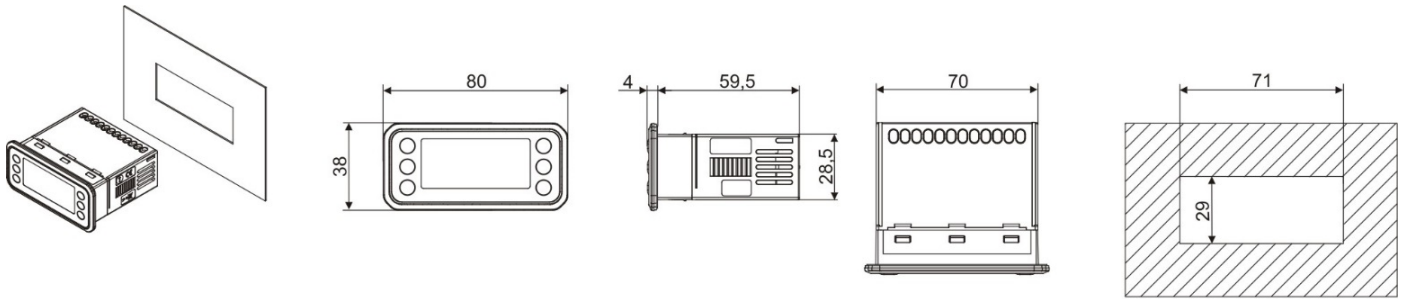
### 2.1 Features

	XRB77CH
Display: n. of digits	± 3 d.p.
Power supply	12 Vac/dc, 110Vac, 230Vac
Probe inputs	Up to 4 x NTC*
Digital inputs	up to 2 x configurable**
Relay output	16+16+7+5A
Hot Key output	present
Serial output	RS485, 2 wires
Connectors	screw or plug-in
Buzzer	optional
Real time clock	optional

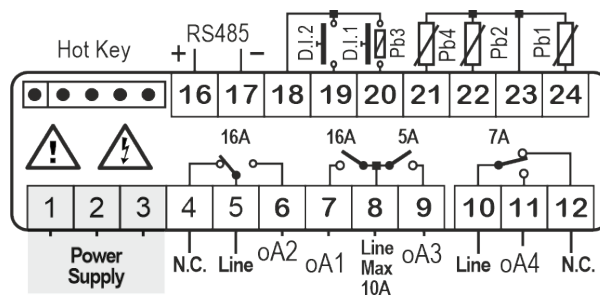
\* Up to 4 NTC if digital input 1 is configured as a probe input

\*\* Up to 2 digital inputs in the 3-temperature probe configuration

## 2.2 Dimensions and cut-out



## 2.3 Wiring diagram



## 3. How to order

The new 1.8 XRB version will have new codes which will automatically replace the current ones. Here below the complete and updated list:

MODEL	CURRENT CODE v.1.4	NEW CODE v. 1.8
XRB60CH -5N0C1	LMOGBXB500	LMOGBXB501
XRB60CH -5R0C5	LMOGGXP500	LMOGGXP501
XRB70CH -5R0C9	LMQOGXP500	LMQOGXP501







For the new 1.8 XRB77CH model, please see the table below:

### XRB77CH - A B C D E

A		B		C		D			E		
Power Supply		Display		Buzzer		Measurement unit	RTC	Compressor Output		Load Connectors	
0	12Vac/dc	N	Red	4	No	C	°C	No	2	16A	Disconnectable
4	110Vac	R	Blue	5	Yes	F	°F	No	3	16A	Screw
5	230Vac	W	White			P	°C	Yes			
						Q	°F	Yes			

## 4. Main accessories

In the 1.8 version, the accessories of the XRB family are the same as in the previous ones, plus the new motion detector. Here below the complete list:

 <p>New accessory</p>	<p><b>X-MOD</b> Motion detector with a 2 meter-cable capable of detecting the presence of people near the cabinet.</p>
	<p><b>MDP/CX</b> Plastic protection against dripping on terminal blocks.</p>
	<p><b>PROG KEY</b> Key for firmware update.</p>
	<p><b>HOT KEY</b> Key for a quick and easy programming</p>
	<p><b>WIZMATE PROG-TOOL KIT</b> Programming tool to easily and quickly change the device configuration by using the WIZMATE software.</p>
	<p><b>XJ485USB</b> USB to RS485 serial converter (2 wires) to interface any computer, equipped with WIZMATE and a USB port, to monitor one or more instruments.</p>

## 5. Pricing

Please contact our Sales Department for product pricing and further information.

## 6. Availability and orders

The XRB-CH series with the new 1.8 version is already available. The old versions will still be available until March 30<sup>th</sup>, 2022, but they will not be supported anymore. After this date, the codes of the previous table will be automatically updated. Please contact our Sales Department for delivery times.