

XRB Series

Bottle cooler controllers



Controllers for bottle cooler applications

The XRB series is an innovative range of products designed for every kind of bottle cooler applications:

- Static coolers
- Ventilated coolers
- Open or night curtain coolers

The family has an attractive design and new innovative functions especially dedicated to energy saving.



XRB Series



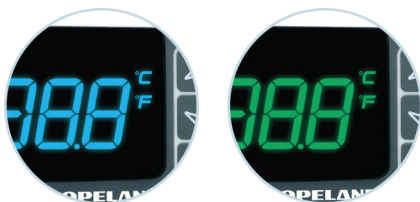
CX: 32x74mm

- High energy saving compared to electromechanical controllers
- Better performances compared to standard electronic controllers
- Energy consumption reduction thanks to compressor and defrost management optimization
- Predictive algorithm for energy saving activation, without using external sensors
- Easy and intuitive installation
- Automatic set point management after fridge refill
- Compressor working time control
- Counters of compressor/defrost/fans/light activation number
- Condenser monitor for maintenance management
- Anti-sweat heaters management (only for XRB07CX)
- Firmware update via special Prog Key
- Hot Key or Prog Tool Kit connector for a quick and easy programming
- Serial connection to monitoring systems





Display with icons for a complete information about machine status



Display available also in blue or green; please contact Dixell for further information

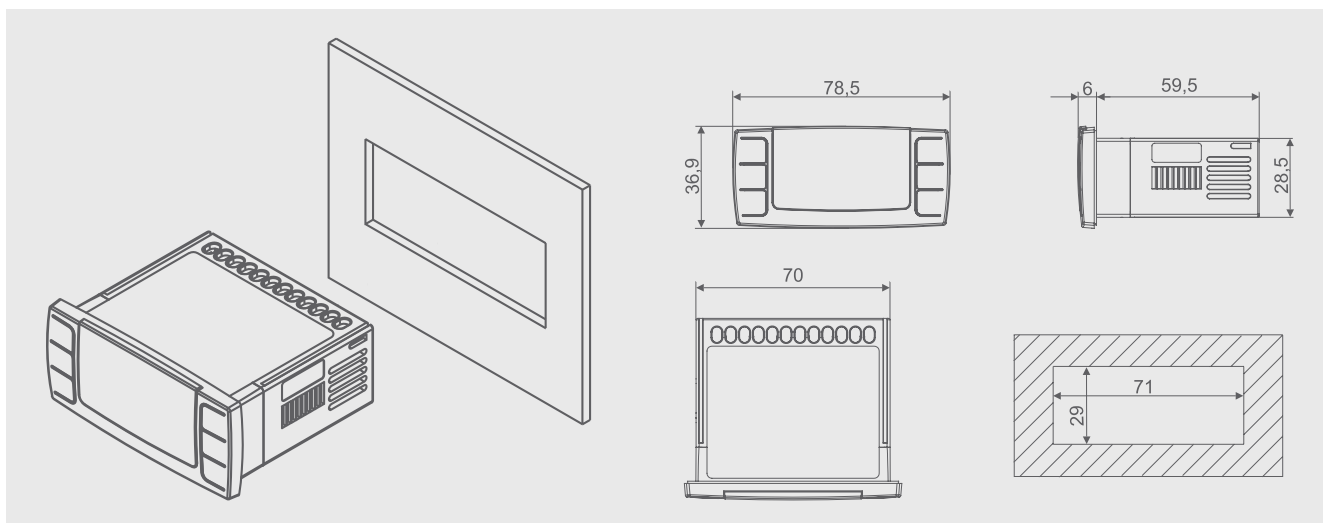


Anti-condensing protection cover for terminal block



IP65 front protection

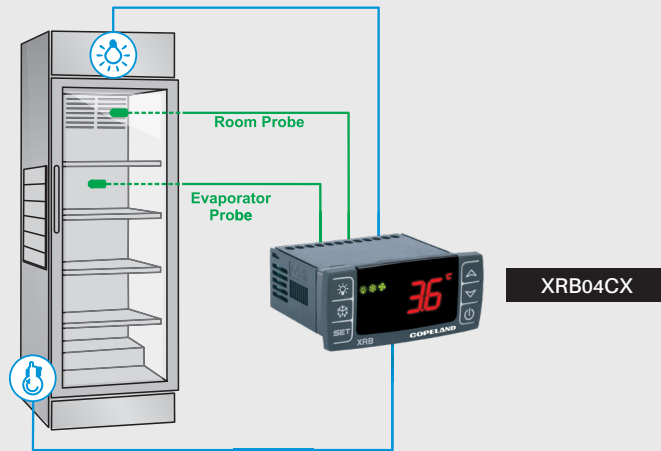
Dimensions & Cut-out



Applications

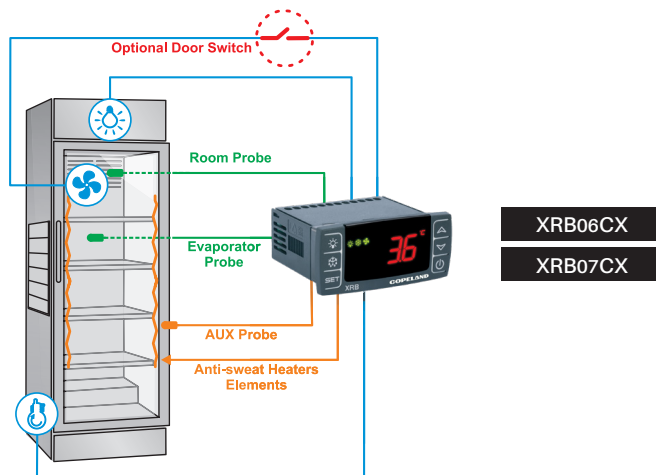
Depending on the kind of application, Dixell has designed 3 different controllers that ensure the highest standards of performance of the cooler.

Door Cabinet - Static Coolers



- Room probe
- Evaporator probe (optional)
- Compressor management
- Light management
- Timed defrost by compressor stop

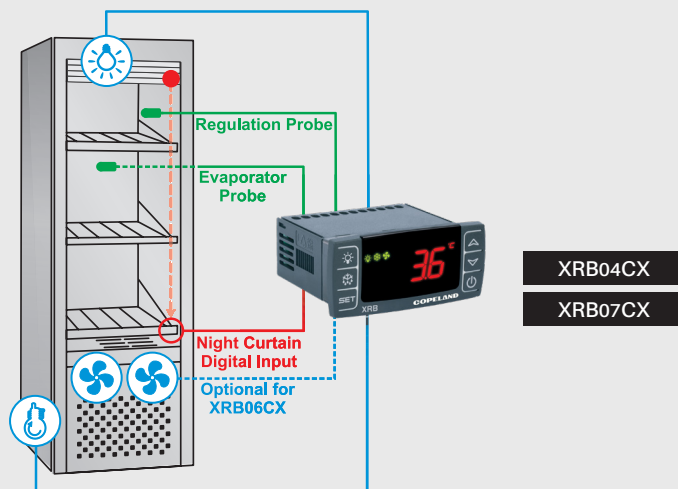
Door Cabinet - Ventilated Coolers



- Room probe
- Evaporator probe
- AUX probe (optional)
- Compressor management
- Fan management
- Light management
- Timed defrost by compressor stop
- Electric or hot gas defrost (if available)
- Anti-sweat heater management

Design also for "Street Cooler" applications.

Door Cabinet - Static Coolers



- Room probe
- Evaporator probe (optional) for heating elements, condenser temperature, etc ...
- Compressor management
- Light management
- Digital input for night curtain management
- Timed defrost by compressor stop

Special Functions



Energy savings

Thanks to an advance algorithm, the XRB series can automatically select the best temperature set by analyzing the temperature variation trends over a predefined interval of time. No external sensor is required for this operation.



Self regulation capability

The XRB family is able to choose the best suited set point and to decide the beginning and the duration of any defrosts based on the real using conditions and without external sensors.



Smart defrost

All standard defrost methods can be used in the XRB family. Moreover, defrost can also be managed automatically and its time duration depends on the effective presence of ice on the evaporator surface.



Extra cooling for filling

Designed for cabinet refill events, this function uses automatic temperature management, which moves the set point to a lower value for a predefined period of time; in this way, the beverages can quickly reach the temperature required to be sold.



Anti-sweat heaters management

It is possible to manage heating elements by using an auxiliary relay output; this can be managed via an interval of time (fixed activation and deactivation) or by using the auxiliary temperature regulator.



Service & production

The XRB controllers include several functions designed to help the manufacture and the service personnel:

- compressor run hour counter;
- easy visualization of the number of activations for all relay outputs;
- quick and easy firmware updating;
- customization of the programming parameters, directly in production, by using WIZMATE PROG-TOOL KIT.



Useful for OEM

High flexibility thanks to the different energy saving modes

The XRB can adapt quickly and easily to any possible situation; the energy saving configuration, which fits the application, can be selected in only a few steps.

Reduced CO₂ emission

Thanks to the advanced algorithm, the XRB reduces power consumption and consequently carbon emissions.

High reliability

Loads (compressor, defrost, etc...) are activated only if necessary; this increases the equipment life and decreases the maintenance operations.

Simplified commissioning operations

The service menu allows the user to quickly set up the system directly when out in the field and without using any additional tools.



Useful for end user

Few parameters to manage

There is a really reduced set of parameters which need to be managed from the final user.

While replacing existing controllers, new functions can be introduced

It is possible to introduce advanced energy saving concepts in existing cabinets with or without a door switch sensor.

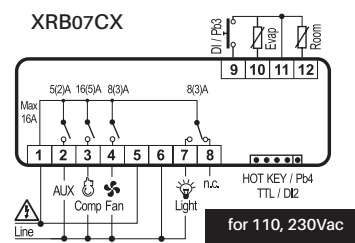
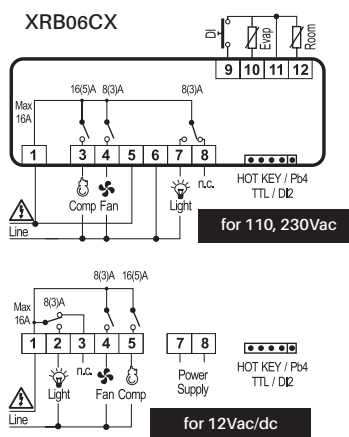
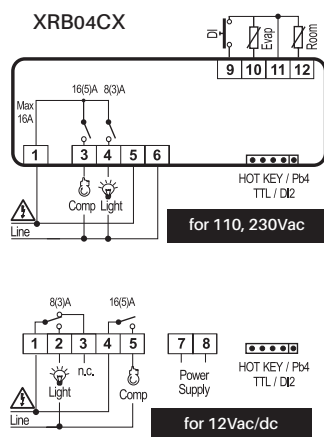
Less programming time

Thanks to the self regulation capability, the XRB controllers adapt themselves to the temperature conditions and the kind of use.

Features

	Static Application	Ventilated Applications	
	XRB04CX	XRB06CX	XRB07CX
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.
Power supply	12Vac/dc - 110, 230Vac	12Vac/dc - 110, 230Vac	110, 230Vac
Probe inputs			
Thermostat	NTC	NTC	NTC
Defrost	NTC	NTC	NTC
Condenser	NTC	NTC	NTC
Condenser/AUX			NTC on HOT KEY
Digital inputs			
Start defrost, light, AUX, door switch, energy saving, probe	config	config	config
Alarm, start defrost, light, AUX, door switch, energy saving, fans, ON/OFF	config	config	config
Relay outputs			
Compressor	16A	16A	16A
Fans		8A	8A
Light	8A	8A	8A
AUX			5A
Other			
Hot Key/Prog Tool Kit output	pres	pres	pres
Serial output	TTL	TTL	TTL
Buzzer	opt	opt	opt

Wirings



Accessories



MDP/CX
Plastic protection
against dripping
on terminal blocks



HOT KEY
Key for a quick
and easy
parameter update



PROG KEY
Key for a quick
and easy
firmware update



WIZMATE PROG-TOOL KIT
Programming tool for a quick
and easy parameter update/loading
in production

A photograph of a modern interior space. On the left, a wall is covered in vertical wooden slats. The word "COPELAND" is mounted on this wall in large, bold, black, sans-serif capital letters. To the right, a blue wall features the text "ENGINEERED FOR SUSTAINABILITY" in gold, italicized, sans-serif capital letters. The floor is made of light-colored square tiles with a dark rectangular section in the foreground.

COPELAND

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SUSTAINABILITY*

About Copeland

A global provider of sustainable climate solutions, combines category-leading brands in compression, controls, software and monitoring for heating, cooling and refrigeration. With best-in-class engineering and design and the broadest portfolio of modulated solutions, we're not just setting the standard for compressor leadership; we're pioneering its evolution. Combining our technology with our smart energy management solutions, we can regulate, track and optimize conditions to help protect temperature-sensitive goods over land and sea, while delivering comfort in any space. Through energy-efficient products, regulation-ready solutions and expertise, we're revolutionizing the next generation of climate technology for the better.

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