

Refrigeration Solutions



Controllers for commercial refrigeration,
food service and catering



Refrigeration solutions

PRIME CH controllers represent the ideal solution for commercial refrigeration, food service, and catering applications that guarantees high usability and quality food storage. When the aesthetic appeal becomes fundamental, these controllers are particularly appreciated for their sleek design and elegant style.

A wide range of solutions for

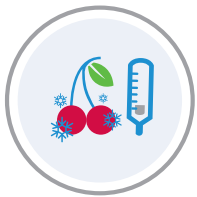


- ICE CREAM FREEZERS
- PASTRY REFRIGERATORS
- COLD ROOMS
- WARMING CABINETS
- REFRIGERATED CABINETS
- WINE CELLARS
- SHOWCASES
- REFRIGERATED COUNTERS

General functions



- **User friendly interface**
- **Direct access to main functions**
- **Easy and intuitive installation**
- **Specific functions for pastry cases (dual humidity)**
- **Regulation based on the average of two temperatures**
- **Hot key or Prog Tool Kit connector for quick and easy programming**
- **Serial connection to monitoring systems**



Food quality

The accurate temperature regulation, the display of events and the alarm management assure the best quality of fresh and frozen food.



Protection & hygiene guaranteed

The flat surface is easy to clean for much better hygiene. The IP65 high level of front protection is guaranteed.



Environmentally friendly

We firmly believe in the respect and safeguard of the environment and respond to the requests of environmental-friendly gas usage, such as Propane. Controllers mount relays suitable for ATEX applications as they have been tested following EN60079-15.



Integrated functions for energy saving

The controllers have integrated functions for energy savings, such as the optimization of fan management.

Data Management Cloud ready

The PRIME CH controllers are compatible with the new “Data Management Cloud” service that allows the user to remotely access data on a Cloud platform through common mobile devices. The auto-detect system installed makes it possible to connect the controller and receive the application data automatically within a few minutes, resulting in time and cost reduction for the installation.

- Maintenance optimization avoiding unnecessary costs
- Optimized food preservation enabled by accurate reporting of all variables
- Data analysis for critical situations and waste detection

Modbus RTU Network

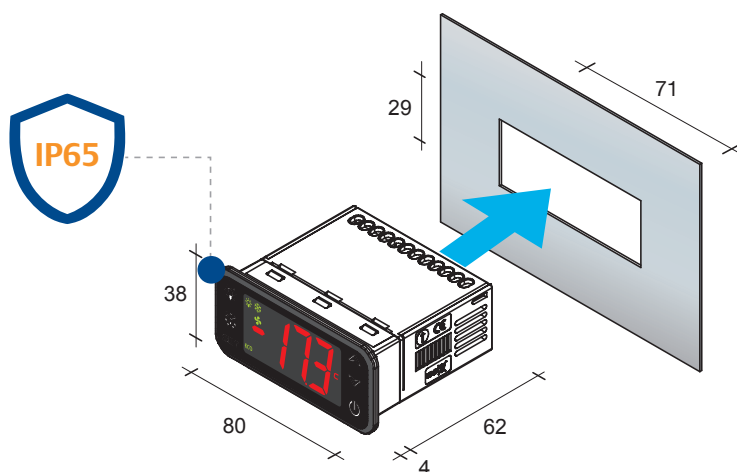


Features

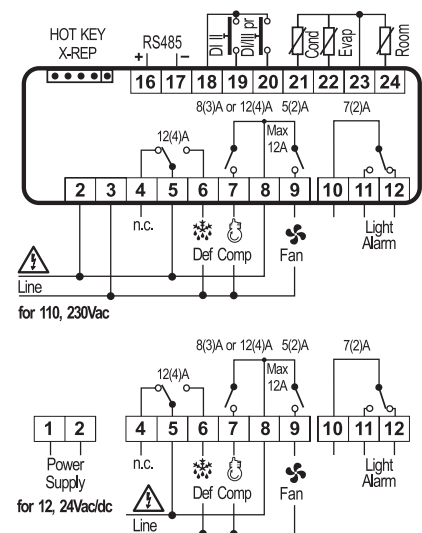
	STATIC APPLICATIONS			VENTILATED APPLICATIONS					
	XR20CH	XR30CH	XR35CH	XR60CH		XR70CH		XR75CH	XR77CH
Keyboard: push buttons	6	6	6	6	6	6	6	6	6
Power supply	12, 24Vac/dc 110, 230Vac	12, 24Vac/dc 110, 230Vac	110, 230Vac	12, 24Vac/dc 110, 230Vac	110, 230Vac	110, 230Vac	12Vac/dc	110, 230Vac	12, 24Vac/dc 110, 230Vac
Probe inputs									
Thermostat	NTC, PTC	NTC, PTC	NTC, Pt1000	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, Pt1000	NTC, Pt1000
Defrost			NTC, Pt1000	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, Pt1000	NTC, Pt1000
Condenser	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, Pt1000	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, Pt1000	NTC, Pt1000
Digital inputs									
Alarm, start defrost, door switch, pressure switch, energy saving, ON/OFF, probe	config	config	2 x config	config	config	config	config	2 x config	2 x config
Relay outputs									
Compressor	8A, 20A*	8A, 20A*	8A, 16A	8A, 16A	20A*	8A, 16A	16A	8A, 16A	8A, 12A
Defrost				8A	8A	8A	16A	8A	12A
Fans				8A	5A	5A	16A	5A	5A
Light, alarms		8A	8A			8A	16A	8A	7A
Other									
Hot Key/Prog Tool Kit output	pres	pres	pres	pres	pres	pres	pres	pres	pres
Remote display output	opt	opt	pres	opt	opt	opt	opt	pres	pres
Serial output	TTL	TTL	RS485	TTL	TTL	TTL	TTL	RS485	RS485
Buzzer	opt	opt	opt	opt	opt	opt	opt	opt	opt
Real time clock		opt	opt			opt	opt	opt	opt

*: maximum current allowed for UL/ENEC 16A

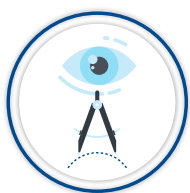
Dimensions and main connections



XR77CH



Better visibility and aesthetical solutions



A look that stands out for its elegance and sophisticated detail, a variety of color displays give the controllers an unmatched aesthetic appeal. Controllers have a wider display with integrated icons for the display of data in real time and provide measurement units for clear and continuous monitoring.

Dedicated icon
for energy saving
status information

ECO

Larger display
for improved visibility



Display available in multiple colors:
red (standard), white, or blue.



Accessories



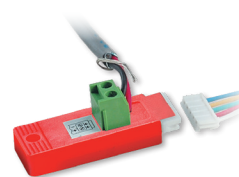
CXLS & HLS

White, red, green or yellow light switch (CXLS) 16A/250Vac with black frame adapter (HLS).



HOT KEY

Key for parameter programming.



XJ485CX

Serial interface converts the TTL output into an RS485.



MDP/CX

Plastic anti-condensing protection cover for terminal block.



XH-REP

Remote display.



WIZMATE PROG-TOOL KIT

Programming tool for a quick and easy parameter update.

Emerson Commercial & Residential Solutions

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