

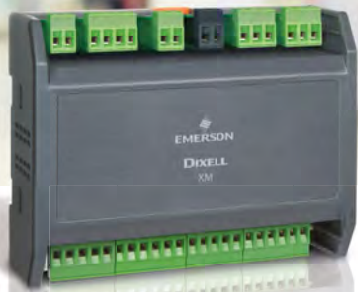
Solutions for Refrigeration and Retail



Controllers for the management
of multiplexed refrigerated units

DIXELL™


EMERSON™



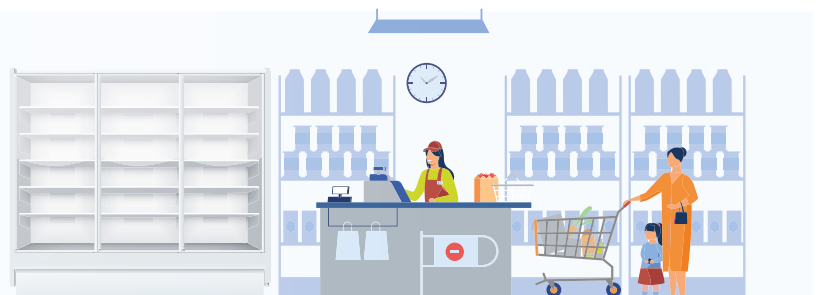
Controllers for the management of multiplexed refrigerated units

The XM700 series is a family of electronic regulators for the optimized management of refrigerated multiplexed cabinets. It has been developed to guarantee high flexibility and connectivity through Bluetooth® communication system and a dedicated APP. The powerful hardware platform, easy installation mode, and the simple configuration best meet installer and service needs. Furthermore, special algorithms have been developed to ensure energy savings in every application. The FULL TOUCH interface, the high amount of information available, the ease of cleaning, the intuitive interaction and much more, are just some of the features of this series.

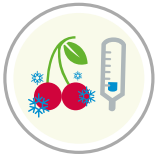
The XM700 family has been designed for remote cases, vertical cabinets, refrigerated counters and is ideal for all types of applications in the retail world, from small shops to discount stores, from supermarkets to hypermarkets. The multiple functions that characterize these controllers also make them suitable for the optimized management of cold rooms.

Applications

- SMALL SHOPS
- DISCOUNTS
- SUPERMARKETS
- HYPERMARKETS



Main features



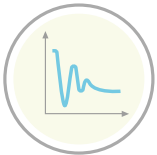
Food quality

The accurate temperature regulation, display of events and alarm management can help to ensure the highest quality of fresh food.



Homogeneous temperature control

Thanks to temperature regulation determined by the average of one or more probes (up to 5), it is possible to have a homogeneous temperature inside the environment. This special function is highly valued for cold rooms where the temperature results can be different and not homogeneous, affecting the quality of the product.



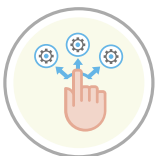
Auto-adaptive algorithm

The new auto-adaptive algorithm for superheat management simplifies the cabinet setup and improves its performance in terms of temperature stability ensuring optimum food preservation and decreasing energy consumption.



Data in real time

A faster communication (38,4k) between controllers and supervising systems allows the cabinet to be monitored in real time ensuring a prompt intervention of the service in case of alarms.



Easy commissioning operations

The controller memory contains several parameter maps (for normal or low temperature, with or without auto-adaptive superheat, and more). The user can select the most suitable one, and quickly set parameters.



Environmentally friendly

With our eco-friendly solutions, innovation and efficiency means respecting the environment by optimizing consumption and reducing pollution, and gas emissions. The energy consumption is guaranteed thanks to the use of modulating loads (fans, lights, heaters, and more) via selectable analogue outputs (PWM, 0÷10Vdc or 4÷20mA).



Protection & hygiene guaranteed

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



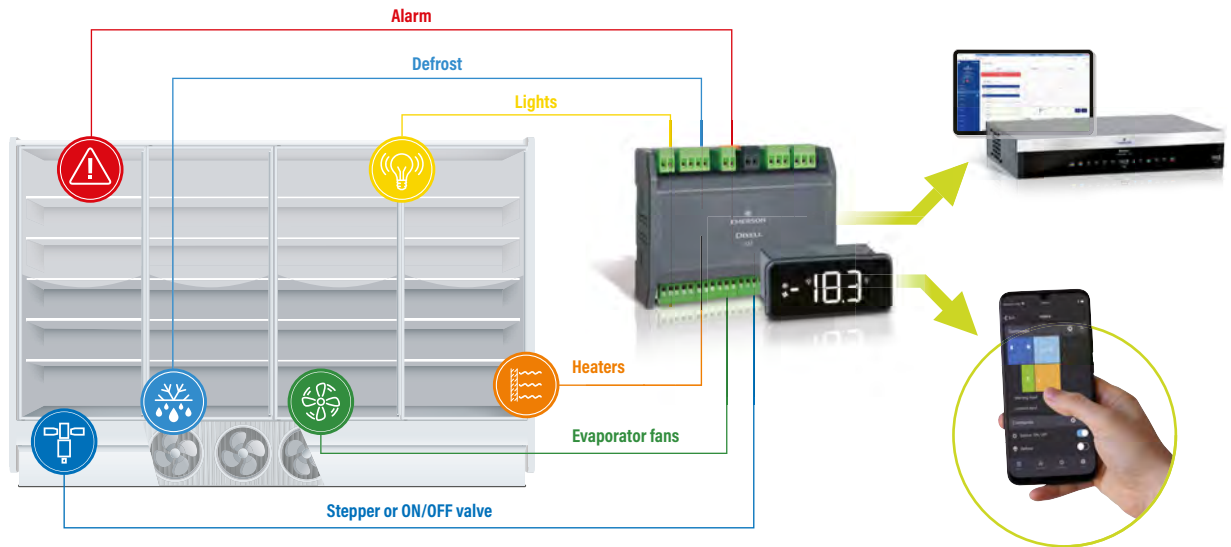
Firmware update even remotely

Besides updating the firmware of the controller by using the Wizmate software directly on site, it is possible to execute this operation even remotely, through the XWEB PRO monitoring system. This avoids machine stops, which could result in wasted energy and resources, ensuring the controller is updated with the latest functions and compatible gases.



Complete cabinet management

XM700 controllers guarantee an optimized load control (lights, fans, heaters, and more) and high plant efficiency, both using stepper or ON/OFF valves.



The special autocalibration function for stepper valves allows their optimized regulation with improved plant efficiency

Synchronized management of functions

For optimized control and functioning of the cabinets, it is possible to connect up to 8 devices per each LAN network. In this way, with a single command, you can obtain:

- synchronized defrosts to ensure the correct temperature management and product preservation;
- the optimization of installation time and costs through a common pressure probe;
- the synchronization of the day/night function (curtains, night set, energy saving, and more) to decrease consumptions;
- timed light switching ON/OFF.



Integration with the XeCO₂ system

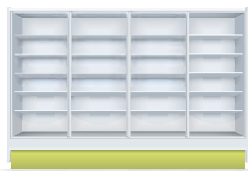
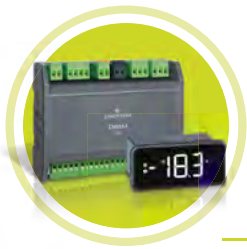
The XM700 controllers, in addition to meeting the needs of small applications, are ideal for supermarkets or hypermarkets. They play a fundamental role in the XeCO₂ system where, because of their special functions, they contribute to optimizing management of CO₂ system efficiency.

XeCO₂

- Safer systems thanks to the synchronization among compressor racks, cabinets, and monitoring systems
- The reduction of short cycles during the night protects compressors, which can help reduce wear and lower maintenance calls and costs
- Maximum efficiency thanks to dynamic superheat management, with cost reduction and COP improvement
- Active compressor protection against flood infiltration and high discharge temperature
- Quick and easy installation thanks to pre-configured maps
- Smart function updates directly from the monitoring system
- High efficiency whether using a stepper or a ON/OFF valve

XM700

High performance multiplexed cabinet controllers



iProRACK

Controllers for transcritical booster racks



XWEB PRO

Advanced controlling and monitoring systems



Features

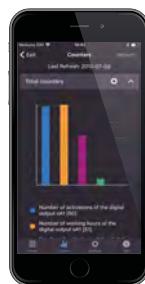


	XM756D	XM759D
Power supply	100÷240Vac	110Vac, 230Vac or 100÷240Vac
Probe inputs	3xNTC/PTC/PT1000/NTC_US + 2xNTC/PTC/PT1000/NTC_US/DI + 1x0÷5V/4÷20mA all configurable	3xNTC/PTC/PT1000/NTC_US + 2xNTC/PTC/PT1000/NTC_US/DI + 1x0÷5V/4÷20mA all configurable
Digital inputs	2 x configurable	2 x configurable
Relay outputs	2x16A SPST + 2x8A SPST + 1x5A SPST all configurable	2x16A SPST + 2x8A SPST + 1x5A SPST all configurable
Hot Key output	present	present
0÷10Vdc output	present	present
0÷10V/4÷20mA/PWM output	present	present
RS485 serial output	client	client
LAN output	up to 8 devices	up to 8 devices
Driver valve output	stepper (unipolar up to 0,40A)	ON/OFF (triac 8÷30W)
Back-up battery for EEV	internal	
Real Time Clock	present	present
Certifications	EN60335-2-89	EN60335-2-89

Dedicated App

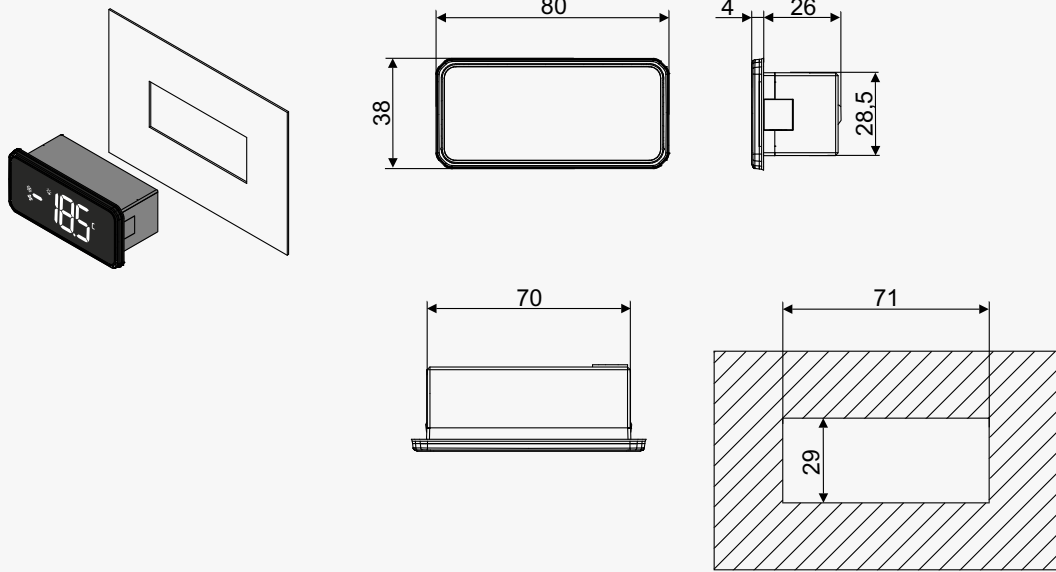
Through Bluetooth® communication and the new App, available for both iOS and Android, interaction with refrigeration units is even more immediate. It is now possible to check cabinet operation in real time via the user interface available on your mobile device (smartphone, tablet), thus expanding functionality and usability. It will therefore be possible to have full control of the unit to which you connect, and the configuration, control and maintenance activities will be even more simplified. The App provides complete reporting with graphs and statistics, allows you to view messages relating to the status of the refrigerated cabinets (presence of alarm conditions), and identifies users in order to manage user access and permission levels securely and centrally.

- Ready to be used in a few minutes
- Advanced machine status display and analysis
- Simplified maintenance and cost reduction

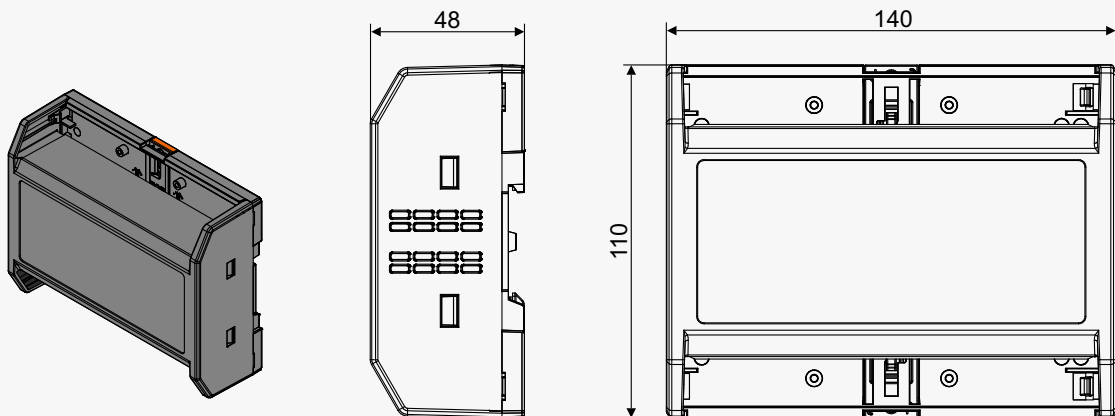


Dimensions and cut-out

CT760



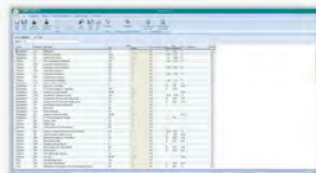
XM756D - XM759D



Main accessories



XJ485USB-KIT
Converter from USB
to RS485



WIZMATE
Programming tool for
controllers and Hot Key



HOT KEY 128K
Key for parameter
programming



PROBES
Temperature and pressure
probes available for every
kind of application

Emerson Commercial & Residential Solutions

Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32016 Alpago (BL) ITALY - Tel. +39.0437.9833 r.a. - Fax+39.0437.989313
EmersonClimate.com - Dixell@Emerson.com

release 1.0 - 1582007600-GB

All trademarks are property of their respective owners. Dixell reserves the right to alter its products without notice. All rights reserved. Because environmental conditions are outside of Dixell's control, we cannot assume liability for results obtained nor any damages that may occur due to improper application. Manuals and updates are available on our Web Site EmersonClimate.com

EMERSON. CONSIDER IT SOLVED.™