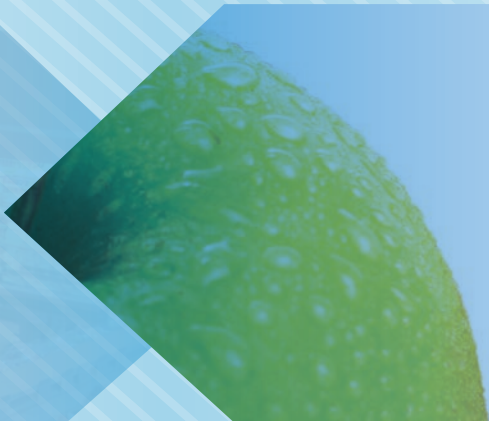


dixell®



EMERSON™
Climate Technologies



THE COMPANY



HEADQUARTERS

Dixell, situated in Pieve d'Alpago (Belluno) and now part of the **Emerson Climate Technologies Group**, is a dynamic Company that from the year 1996 to present has positioned itself among world leaders of electronic Regulation and Control in **Industrial and Commercial Refrigeration, Conditioning and Cooking** fields thanks to continuous **Technologic Innovation** and a **focus on Energy Saving** issues.



SALES, TRAINING

Worldwide, our products are distributed and supported in **over 70 countries**, by a sales network of experienced and **qualified personnel**, guaranteeing the correct selection of controllers and an efficient after sales service. Competence, professionalism, and courtesy make our Customer Service Dept exemplary. It provides our distributors and customers alike with technical support, solutions and concise answers to issues that may arise. Constant **technological development and innovation** of our products make us stand out in the market as the strategic choice for most users. This and the continuous growth of our product range requires constant training for our own staff and our distributors. To meet this challenge a fully equipped training facility with the most advance computer technology has been developed at our Belluno base.



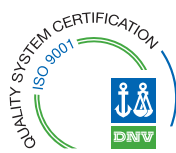
IPro ACADEMY

A center of excellence that combines innovation requests received from the HVAC/R market combined with technological opportunities, in this way guaranteeing continuous **iPro programmable platform** growth.



RESEARCH, DEVELOPMENT, PRODUCTION

Continuous **research and development** means that all of our controllers feature the latest generation of microprocessors. Giving due consideration to the actual needs of many users has lead us to develop Dixell's fast and simple programming methods. Most operating features are carefully developed through listening closely to the requirements of our many users. Our "Research and Development" and our "Production" departments are highly flexible, which means they can respond quickly to specific customer requirements and offer appropriate solutions, now even more competitive and flexible thanks to China bases. Highly sophisticated equipment is now employed in the development and control of manufacturing. Here delicate and repetitive tasks are mostly carried out by "state of the art" **automatic systems**.



QUALITY

Dixell has been awarded with ISO9001 certificate and it constantly commits itself to quality in everything it does. The quality system of Dixell conforms to the Quality System Standard **UNI EN ISO 9001:2008**.



ENVIRONMENT

Dixell firmly believes in the **respect and safeguard of the environment**, with particular attention to all industrial processes and to the research and development of new products.

Dixell's strengths are the realization of regulators that combine high performance with high **energy savings** and the use of eco-friendly components, in full compliance with all Italian and International laws and standards. To this end Dixell complies with the Material Compliance Program of Emerson respecting the **RoHS** directive (**2002/95/EC**) and the **REACH** regulation (**CE n. 1907/2006**), asking its suppliers accurate analysis on all purchased components. Furthermore packing materials are in accordance with **2004/12/CE European Directive**.



APPLICATIONS



REFRIGERATION

Refrigeration requires the control of many different conditions to guarantee that products are processed and stored correctly. Temperature, pressure and humidity must be monitored with reliable devices that are also simple to manage. Whether we are dealing with a **compressor rack controller** or the **smallest refrigerator** or **refrigerated transport**, controllers must provide total solutions that provide complete control.

Often, hidden behind a **bottle cooler** or **pharmaceutical cabinet**, lies the electronic technology which is nowadays required, which is becoming more important and plays a decisive role, both for the designer and for the consumer. The concepts of integration, remote access, energy savings, functional aesthetics and connectivity are important considerations on which even the **wholesaler** can always rely on. Even regarding **catering** and **food service**, Dixell has years of experience in offering products with excellent performance and durability including special applications such as **blast chiller** processes used in freshly-cooked food conservation. Dixell's solutions to the introduction of food hygiene regulations (HACCP) offer immediate advantages in terms of cost, time and system operation.





RETAIL

The complete solution that Dixell offers for the Retail field is a solution for every kind of application, from **petrol station** to **hypermarket** up to **convenience stores**. If there is an alarm, it is necessary to be advised quickly in order to intervene without delay. Depending on the application, Dixell provides remote assistance systems for local monitoring, for supervising or remote control including via Internet. Where there are many points of sale, such as **restaurant chains** or **distribution centers**, centralized management software for the Call Center is available.



CONTRACTING

Experience, combined with innovation, allows our products to be used in the most diverse **industrial applications**; alarm management is very important for safety and this is why all the controllers are designed to supply effective diagnostics whether at local level or by connection to remote assistance system. Dixell devices are particularly adaptable and make the application easy to use even in the **industrial automation** field, thanks to the wide range of products available and their compatibility with current safety standards.



INFO

For **further information** about all Dixell products please check out our Web Site **www.dixell.com**.



RANGE

PARAMETRIC CONTROLLERS

Different needs that crowd the refrigeration world are satisfied with a complete series of parametric controllers with an innovative design and intuitive interfaces. Intelligent algorithms, most of those are oriented toward the **energy saving**, and **innovative functions** mark a range of products that includes different fields of cooling world giving a wide range of general purpose solution, for multiplexed cabinets, cabinets and rooms, bottle cooler, blast chiller, compressor racks and refrigerated trucks. Specific solutions that are used also in applications such as pharmaceutical or fan speed, food warming cabinets and ovens control and in temperature, humidity and pressure regulation.

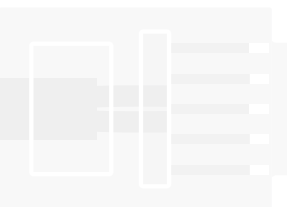


PROGRAMMABLE CONTROLLERS

The iPro family of controllers, whether dedicated for HVAC/R units or for general purposes, is characterized by the most advanced technology in **connectivity** and processing speed.

iPro controllers are based on a powerful platform that includes one hardware configuration that is able to expand the actual solution in the market, and software that, thanks to the ISaGRAF® development environment, allows the development through standard programming languages.

An **easy** and **useful HMI** is also guaranteed through graphic displays and the touch screen, as the **expandability** and the solution to many applications are satisfied with a complete range of accessories, including I/O expansion modules, proportional electronic valve management, modem, wirings, and more.





SYSTEMS

The XWEB System family is based on web technology used to satisfy monitoring and supervising requirements in Commercial and Industrial Refrigeration fields from small shops to hypermarkets, and refrigerated warehouses to food production centers. Other potential fields are: chemical-pharmaceutical, oenological, naval, museums, hospital, etc. Dixell Systems conform to **HACCP** rules; the **CRO** (compressor rack optimization) reduced Set-point, anti-sweet heaters, lights and the power peaks are used with the result of having an optimize **energy savings**. It is also important to have the possibility to have integration with air conditioning machines that are equipped with iCHILL and iPro Dixell controllers. For retrofitting we offer ICOOLL **wireless** (RF) modules plus relay and acquisition module families for probe inputs and alarm outputs. All XWEB's can be connected anywhere with XCENTER, the program for the centralized management for a modern and organized **Call Center**, dedicated to alarm management and for a pro-active Service based on the Oracle database.



PROBES and ACCESSORIES

A complete series of probes & transducers for temperature, humidity, and pressure ensures that for every application the end user has the right level of accuracy and the appropriate lead time.

A family of useful accessories such as modems, wirings, serial interfaces, programming kits, and protections makes it easy, fast, and accurate to use each instrument in every situation, especially with a remote connection or for energy analysis.

CORPORATE and HOMOLOGATIONS

All the production conforms to **CE** norms with regards to low voltage and electromagnetic compatibility. For many models, Dixell has the voluntary mark at approval Authority (**ENEC**, **usULc**) ensuring a reliable international rules conformance.



CE mark

It indicates conformity to the European Directives issued to guarantee the safety of the users and the environment. It is obligatory for all products distributed within the European Community. It does not replace the voluntary Quality Mark.



ENEC mark

Voluntary quality mark recognised as equivalent to the single national marks of the Countries adherent to the accord. It certifies that a product conforms to the European norms EN, and that it has been manufactured by a company with quality systems conforming to ISO 9000 norms.



UL mark

Voluntary quality mark, valid for the American Market. It certifies conformity of a product to the American safety directives, which sometimes differ from European ones.



GOST-R

Voluntary certificate valid for the Russian Market. It certifies quality of supplied goods and their conformity with norms and standards Russian Federation.



CX: 32x74mm

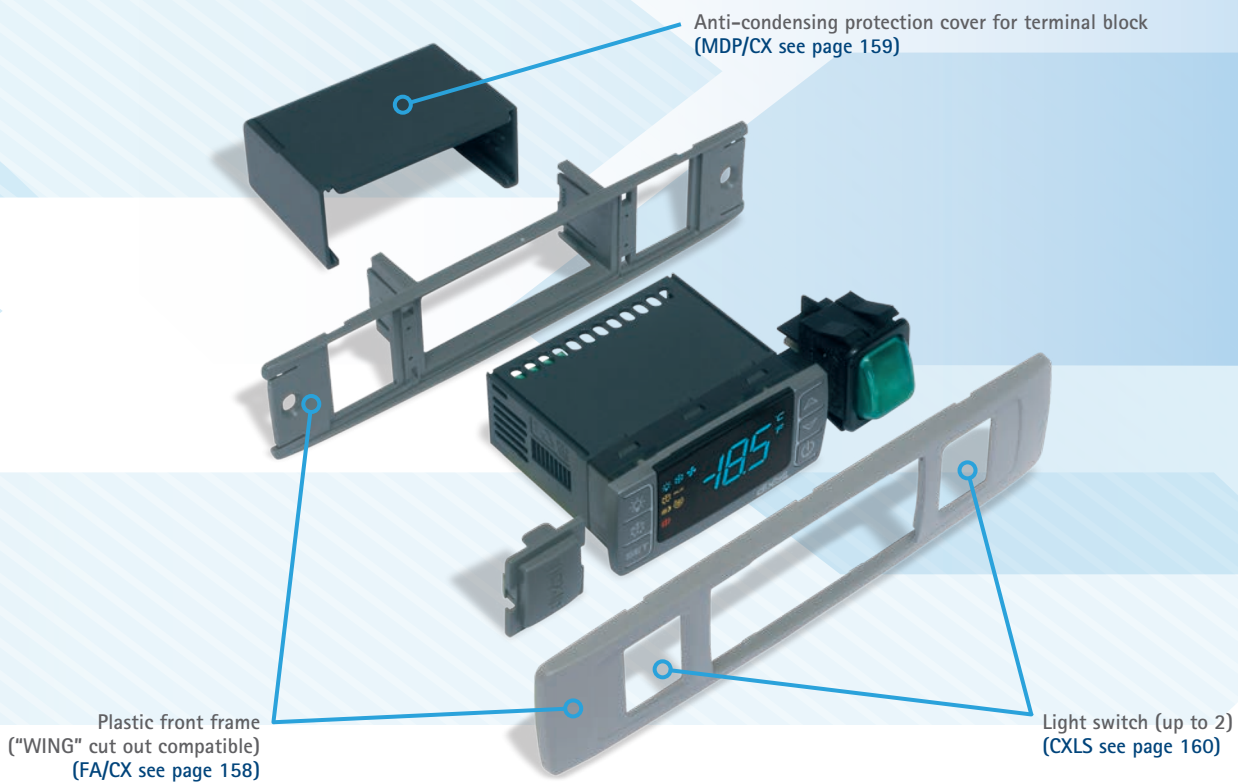


Prime

PRIME CX SERIES: NT and LT APPLICATIONS

- Innovative digital controllers dedicated to heat and NT and LT refrigeration
- Easy and intuitive programming mode
- On/off key
- Energy saving cycles through digital input
- Fast freezing with dedicated set point
- Outputs restart with door open alarm
- Temperature Max and Min functions
- Configurable digital input also as probe
- Virtual probe management
- Cycles for milk cooling and storage systems
- Functions for refrigerated air dryers in automation processes
- Condenser temperature management to prevent critical plant situations
- Hot Key or Prog Tool Kit connector for quick and easy programming
- Serial connection to monitoring systems (direct for XR35/75/77CX or via XJ485CX)
- Connection for X-REP remote display (alternative to TTL output)
- 3VA max power absorption
- Display with red LED (10,5mm high) and icons





HOW to ORDER

PRIME CX

X R C X - A B C D E

-17.8

For blue display please contact Dixell

A	B	C		D		E	
Power supply	Inputs	Buzzer	X-REP output (excludes TTL output)	Measurement unit	RTC	Compressor output	Connections
0 = 12Vac/dc 1 = 24Vac/dc 2 = 24Vac 4 = 110Vac 5 = 230Vac	N = NTC P = PTC	0 = No 1 = Yes 2 = No 3 = Yes	No No Yes Yes	C = °C F = °F H = °C heating (only for XR10CX) L = °F heating (only for XR10CX) I* = °C M* = °F * Only for XR30/70CX	No No No No Yes supercap Yes supercap	0 = 8A 1 = 20A 3 = 16A 6 = 8A 7 = 20A 8 = 16A	Screw Screw Screw Faston Faston Faston

XR35/75/77CX

X R C X - A B C D E

-17.8

For blue display please contact Dixell

A	B	C	D	E	
Power supply	Inputs	Buzzer	Measurement unit	RTC	Compressor output
0 = 12Vac/dc (only for XR77CX)	N = NTC	6 = No	C = °C	No	0 = 8A
1 = 24Vac/dc (only for XR77CX)	S = Pt1000	7 = Yes	F = °F	No	3 = 16A
4 = 110Vac			I = °C	Yes supercap	
5 = 230Vac			M = °F	Yes supercap	

XR80CX

X R 8 0 C X - A B C D E

-17.8

For blue display please contact Dixell

A	B	C	D	E
Power supply	Inputs	Buzzer	Measurement unit	Compressor output
0 = 12Vac/dc 4 = 110Vac 5 = 230Vac	N = NTC P = PTC	0 = No 1 = Yes	C = °C F = °F	0 = 8A 3 = 20A

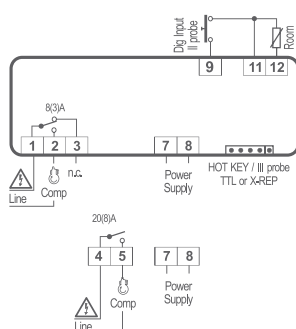


CX: 32x74mm

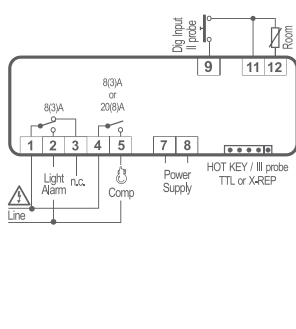
XR10CX	Digital thermostat with heating or cooling action
XR20CX	Digital controller for NT with "off cycle" defrost
XR30CX	Digital controller for NT with "off cycle" defrost and additional configurable relay
XR35CX	Digital controller for NT with "off cycle" defrost, additional configurable relay and RS485
XR40CX	Digital controller for NT and LT with electrical or hot gas defrost

FEATURES	XR10CX	XR20CX	XR30CX	XR35CX	XR40CX
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.
Power supply	12, 24Vac/dc 24, 110, 230Vac	12, 24Vac/dc 24, 110, 230Vac	12, 24Vac/dc 24, 110, 230Vac	110, 230Vac	12, 24Vac/dc 24, 110, 230Vac
Probe inputs					
Thermostat	NTC, PTC	NTC, PTC	NTC, PTC	NTC, Pt1000	NTC, PTC
Thermostat 2					
Defrost				NTC, Pt1000	NTC, PTC
Defrost 2					
Condenser	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, Pt1000	NTC, PTC on HOT KEY
Digital inputs					
Alarm, start defrost, AUX, door switch, pressure switch, probe	config	config	config	config	config
Alarm, start defrost, AUX, door switch, pressure switch				config	
Relay outputs					
Compressor	8A, 20A	8A, 20A	8A, 20A	8A, 16A	8A, 20A
Compressor 2					
Thermostat 2					
Defrost					8A
Defrost 2					
Fans					
Light or alarm			8A	8A	
Anti-sweat					
Agitator					
Other					
Hot Key/Prog Tool Kit output	pres	pres	pres	pres	pres
Remote display output	X-REP opt	X-REP opt	X-REP opt	X-REP	X-REP opt
Serial output	TTL	TTL	TTL	RS485	TTL
Buzzer	opt	opt	opt	opt	opt
Real time clock			opt	opt	

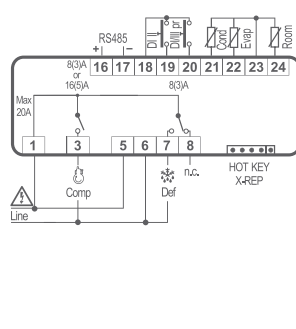
XR10CX - XR20CX



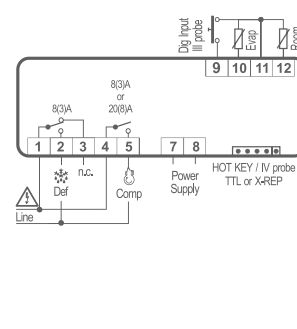
XR30CX



XR35CX



XR40CX



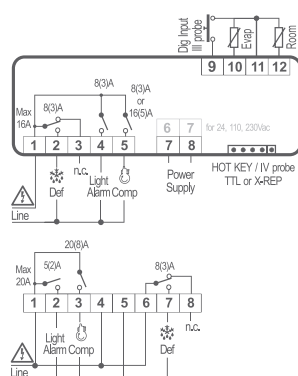
XR50CX	Digital controller for NT and LT static applications with electrical or hot gas defrost and auxiliary relay
XR60CX	Digital controller for NT and LT ventilated applications with dual humidity function
XR64CX	Digital controller for NT and LT ventilated applications with dual evaporators



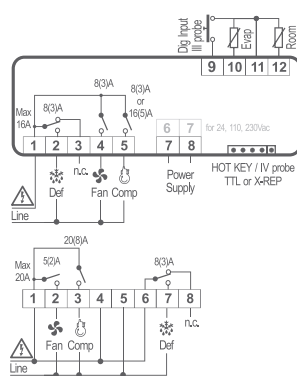
CX: 32x74mm

FEATURES	XR50CX		XR60CX		XR64CX	
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.
Power supply	12, 24Vac/dc 24, 110, 230Vac	110, 230Vac	12, 24Vac/dc 24, 110, 230Vac	110, 230Vac	110, 230Vac	12Vac/dc
Probe inputs						
Thermostat	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC
Thermostat 2						
Defrost	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC
Defrost 2					NTC, PTC	NTC, PTC
Condenser	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY
Digital inputs						
Alarm, start defrost, AUX, door switch, pressure switch, probe	config	config	config	config	config	config
Alarm, start defrost, AUX, door switch, pressure switch						
Relay outputs						
Compressor	8A, 16A	20A	8A, 16A	20A	8A, 16A	16A
Compressor 2						
Thermostat 2						
Defrost	8A	8A	8A	8A	8A	16A
Defrost 2					8A	16A
Fans			8A	5A	5A	16A
Light or alarm	8A	5A				
Anti-sweat						
Agitator						
Other						
Hot Key/Prog Tool Kit output	pres	pres	pres	pres	pres	pres
Remote display output	X-REP opt	X-REP opt	X-REP opt	X-REP opt	X-REP opt	X-REP opt
Serial output	TTL	TTL	TTL	TTL	TTL	TTL
Buzzer	opt	opt	opt	opt	opt	opt
Real time clock						

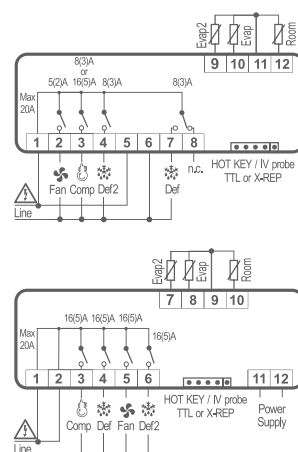
XR50CX



XR60CX



XR64CX





CX: 32x74mm

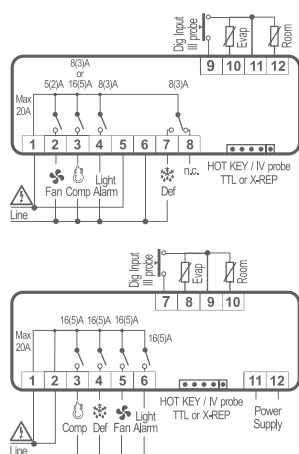
XR70CX | Digital controller for NT and LT with auxiliary relay and dual humidity function

XR71CX | Digital controller for NT and LT with anti sweat heater management

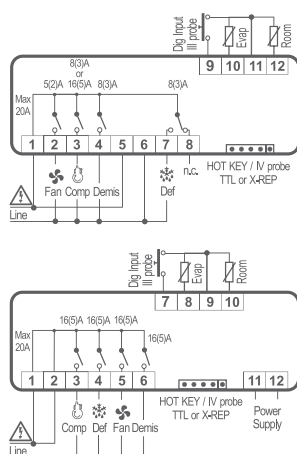
XR72CX | Digital controller for NT and LT with dual compressor management

FEATURES	XR70CX		XR71CX		XR72CX	
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.
Power supply	110, 230Vac	12Vac/dc	110, 230Vac	12Vac/dc	110, 230Vac	12Vac/dc
Probe inputs						
Thermostat	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC
Thermostat 2						
Defrost	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC	NTC, PTC
Defrost 2						
Condenser	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY	NTC, PTC on HOT KEY
Digital inputs						
Alarm, start defrost, AUX, door switch, pressure switch, probe	config	config	config	config	config	config
Alarm, start defrost, AUX, door switch, pressure switch						
Relay outputs						
Compressor	8A, 16A	16A	8A, 16A	16A	8A, 16A	16A
Compressor 2					8A	16A
Thermostat 2						
Defrost	8A	16A	8A	16A	8A	16A
Defrost 2						
Fans	5A	16A	5A	16A	5A	16A
Light or alarm	8A	16A				
Anti-sweat			8A	16A		
Agitator						
Other						
Hot Key/Prog Tool Kit output	pres	pres	pres	pres	pres	pres
Remote display output	X-REP opt	X-REP opt	X-REP opt	X-REP opt	X-REP opt	X-REP opt
Serial output	TTL	TTL	TTL	TTL	TTL	TTL
Buzzer	opt	opt	opt	opt	opt	opt
Real time clock	opt	opt				

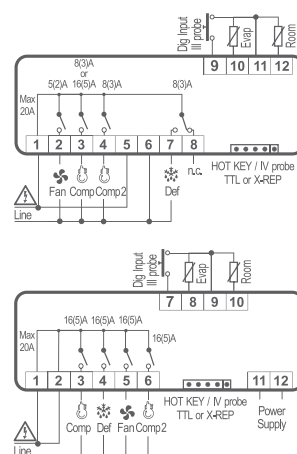
XR70CX



XR71CX



XR72CX



CONTROLLERS for VENTILATED APPLICATIONS or for MILK COOLING and AIR DRYERS

PRIME CX

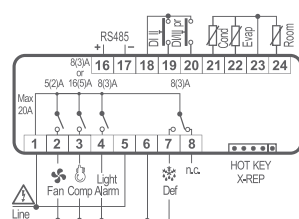
XR75CX	Digital controller for NT and LT ventilated applications with auxiliary relay, dual humidity function and RS485
XR77CX	Digital controller for NT and LT ventilated applications with auxiliary relay, dual humidity function, RS485 and relay with separated common lines
XR80CX	Digital controller for storage, milk cooling, and for refrigerated air dryers



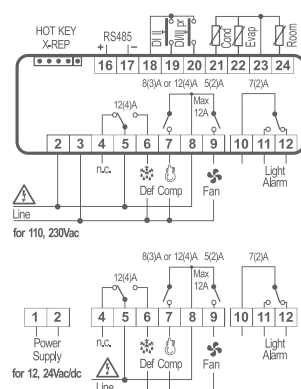
CX: 32x74mm

FEATURES	XR75CX	XR77CX	XR80CX
Display: n° digits	± 3 d.p.	± 3 d.p.	± 3 d.p.
Power supply	110, 230Vac	12, 24Vac/dc 110, 230Vac	12Vac/dc 110, 230Vac
Probe inputs			
Thermostat	NTC, Pt1000	NTC/Pt1000	NTC, PTC
Thermostat 2			
Defrost	NTC, Pt1000	NTC, Pt1000	
Defrost 2			
Condenser	NTC, Pt1000	NTC, Pt1000	
Digital inputs			
Alarm, start defrost, AUX, door switch, pressure switch, probe	config	config	
Alarm, start defrost, AUX, door switch, pressure switch	config	config	config
Relay outputs			
Compressor	8A, 16A	8A, 12A	8A, 20A
Compressor 2			
Thermostat 2			
Defrost	8A	12A	
Defrost 2			
Fans	5A	5A	
Light or alarm	8A	7A	
Anti-sweat			
Agitator			8A
Other			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP	X-REP	
Serial output	RS485	RS485	TTL
Buzzer	opt	opt	opt
Real time clock	opt	opt	

XR75CX



XR77CX



XR80CX

