XR-CH

SOLUTIONS for REFRIGERATED APPLICATIONS

NATURAL REFRIGERANT COMPATIBLE

think natural

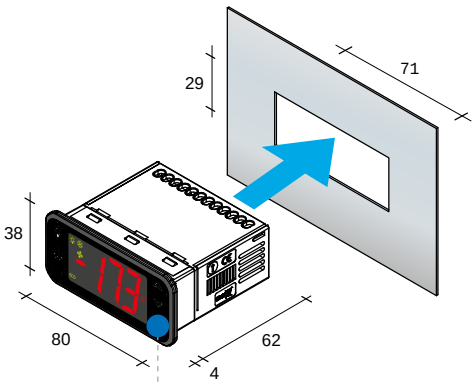
XR-CH series is a range of Dixell products dedicated to heat and NT and LT refrigeration. This product family features new functions and an innovative and aesthetical design. 6 keys allow quick and easy access to main functions, whereas the icons show real-time status, providing an intuitive and complete user interface. All instruments contain the latest software and hardware updates with advanced technology, providing optimal performance.

- Easy and intuitive installation
- High protection level (IP65) and hygiene
- Integrated functions for energy saving
- Food quality
- Direct access to main functions
- Quick and easy programming
- Serial connection to monitoring systems

Dedicated icon for energy saving status information

ECO

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



IP65

PRIME WING

Refrigeration solutions

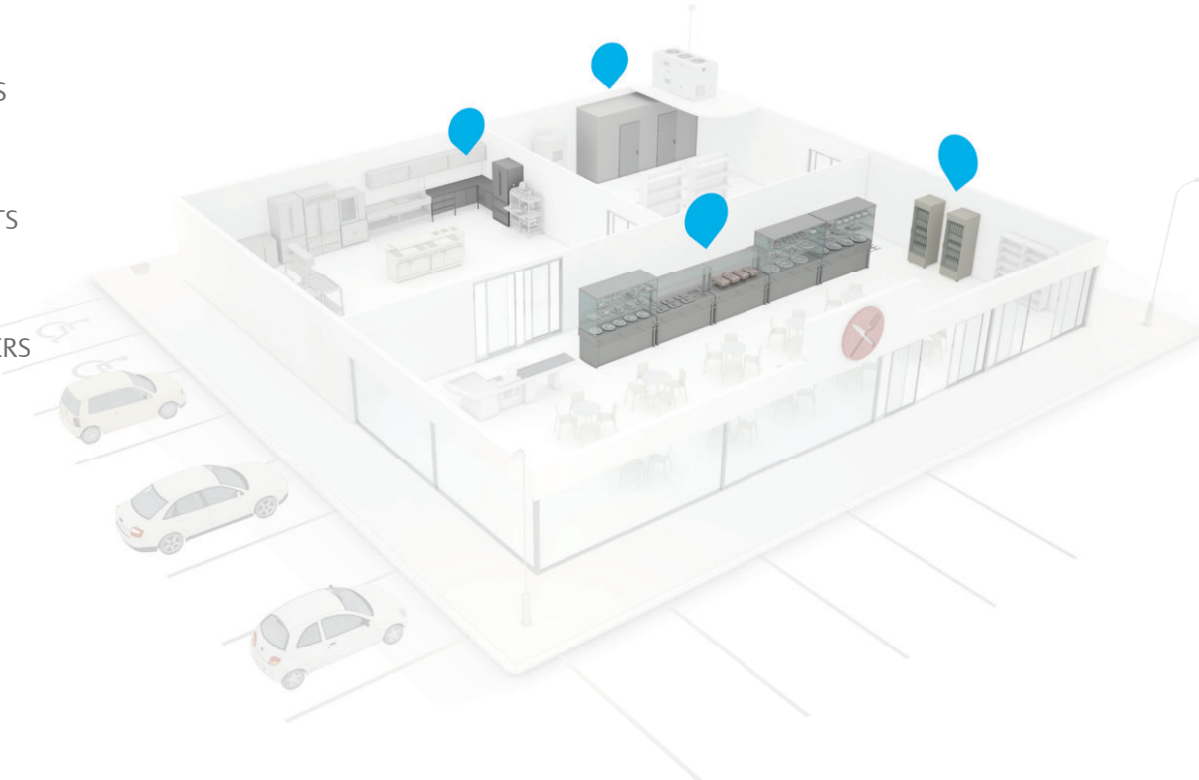
PRIME & WING Series are the innovative & aesthetical solution controllers designed for commercial refrigeration, food service, and catering applications that guarantee high usability and quality food storage. When the aesthetic appeal becomes fundamental, these controllers are particularly appreciated for their sleek design and elegant style.

NATURAL REFRIGERANT COMPATIBLE

think natural

A wide range of solutions for:

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



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

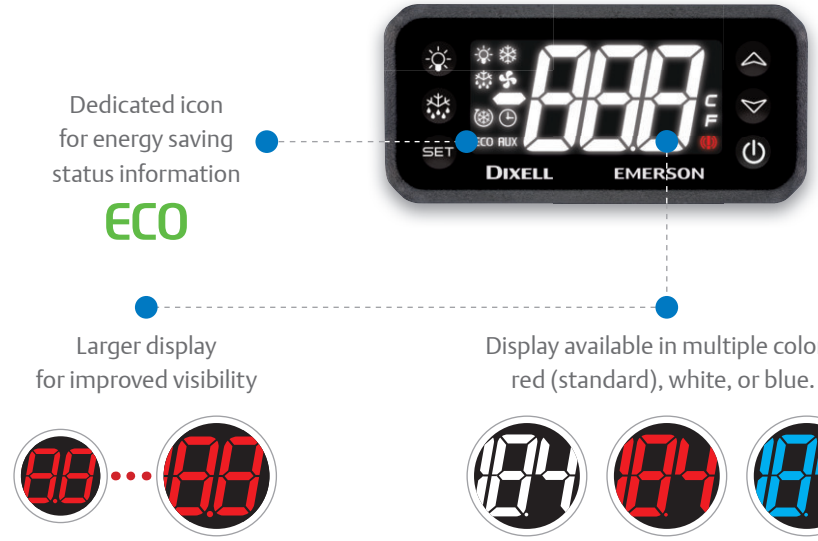
We firmly believe in the respect and safeguard of the environment and respond to the requests of environmental-friendly gas usage, such as Propane. Controllers mount relays suitable for ATEX applications as they have been tested following EN60079-15.

Integrated functions for energy saving

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

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.



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

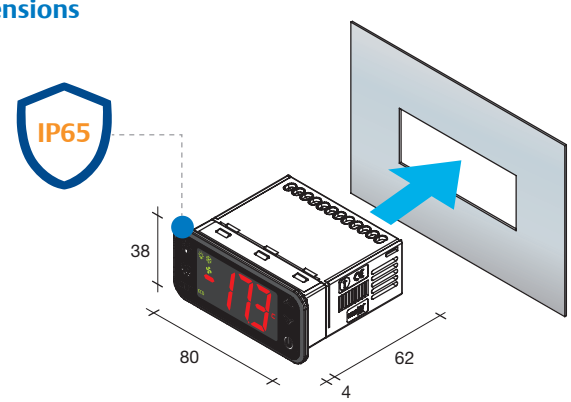
PRIME CH

Refrigeration controllers in CH format

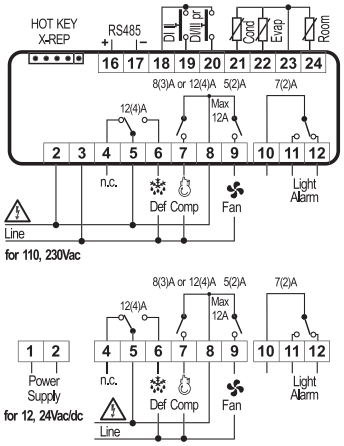
	STATIC APPLICATIONS			VENTILATED APPLICATIONS					
FEATURES	**XR20CH**	**XR30CH**	**XR35CH**	**XR60CH**		**XR70CH**		**XR75CH**	**XR77CH**
Keyboard: push buttons	6	6	6	6	6	6	6	6	6
Power supply	12, 24Vac/dc 110, 230Vac	12, 24Vac/dc 110, 230Vac	110, 230Vac	12, 24Vac/dc 110, 230Vac	110, 230Vac	110, 230Vac	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

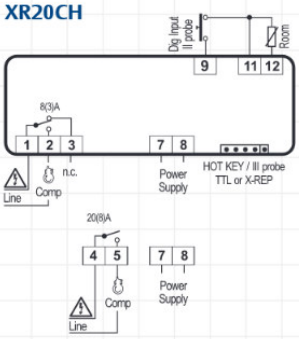


XR77CH

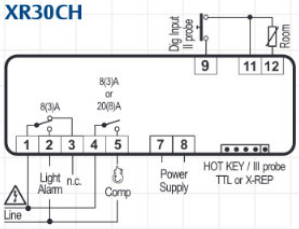


WIRINGS

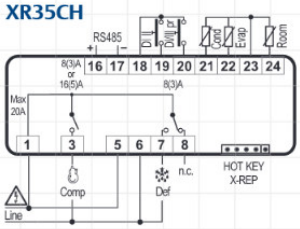
XR20CH



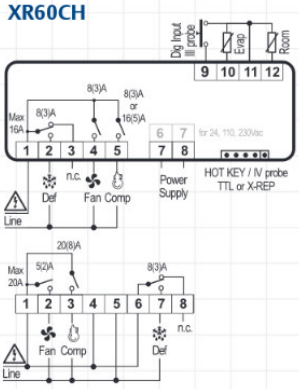
XR30CH



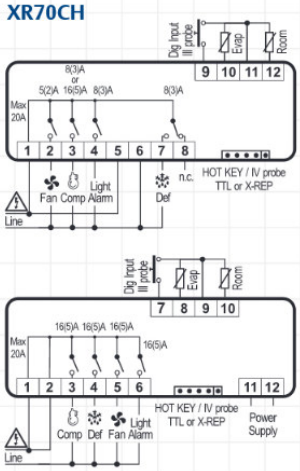
XR35CH



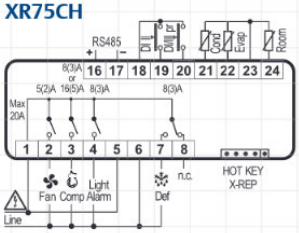
XR60CH



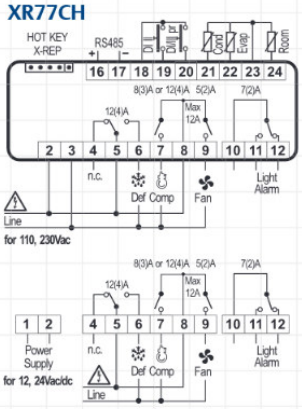
XR70CH



XR75CH

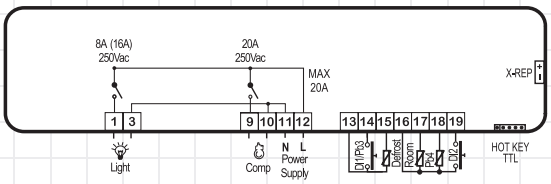


XR77CH

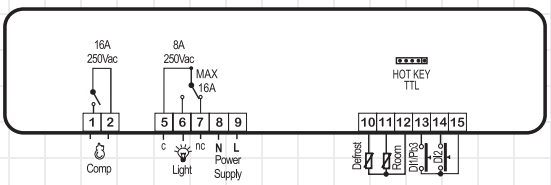


WIRINGS

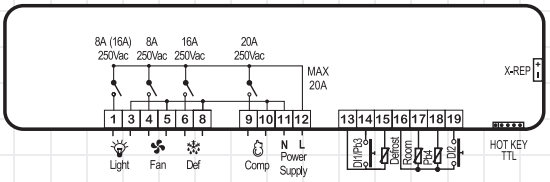
XW20LH



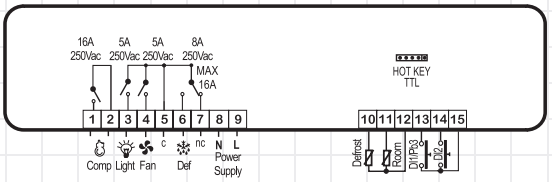
XW20LRH



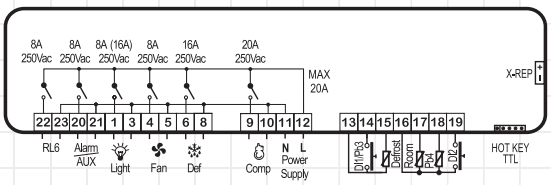
XW60LH



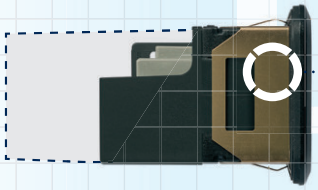
XW60LRH



XW90LH



ONLY 40mm (LRH)



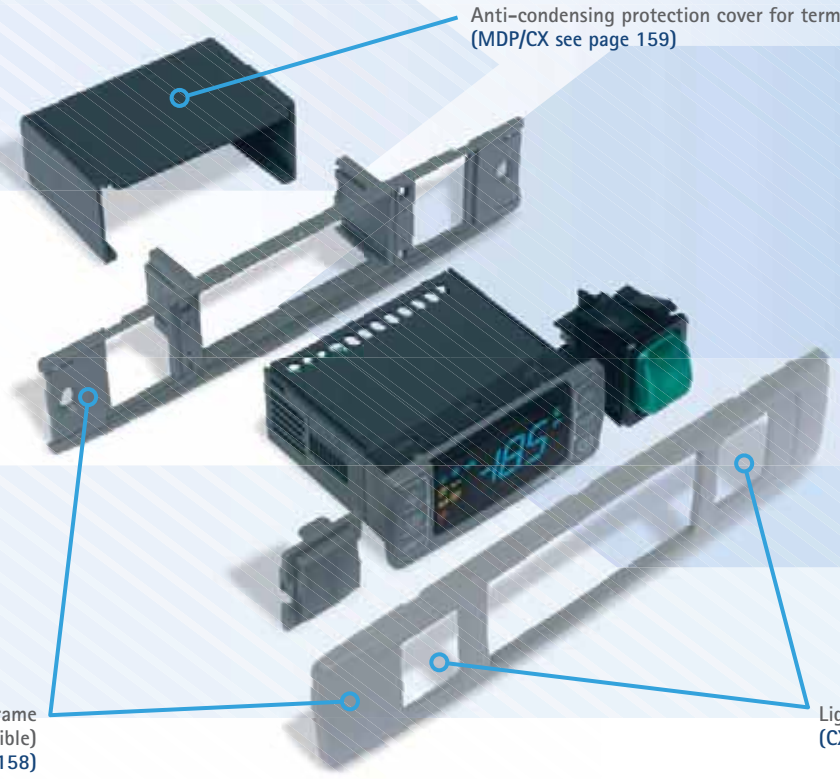
New fixing bracket for quick and easy standard installation of the WING controllers.

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	**N** = NTC	**0** = No	No	**C** = °C	No	**0** = 8A	Screw
1 = 24Vac/dc	**P** = PTC	**1** = Yes	No	**F** = °F	No	**1** = 20A	Screw
2 = 24Vac		**2** = No	Yes	**H** = °C heating (only for XR10CX)	No	**3** = 16A	Screw
4 = 110Vac		**3** = Yes	Yes	**L** = °F heating (only for XR10CX)	No	**6** = 8A	Faston
5 = 230Vac				**I*** = °C	Yes supercap	**7** = 20A	Faston
				M* = °F	Yes supercap	**8** = 16A	Faston
				* Only for XR30/70CX			

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	**N** = NTC	**0** = No	**C** = °C	**0** = 8A
4 = 110Vac	**P** = PTC	**1** = Yes	**F** = °F	**3** = 20A
5 = 230Vac				

PRIME CX

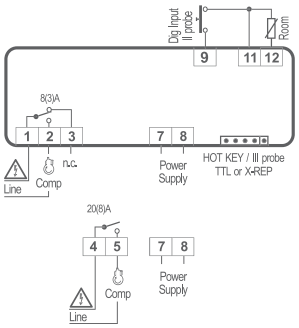
THERMOSTAT and CONTROLLERS with "OFF CYCLE" DEFROST for STATIC APPLICATIONS

CX: 32x74mm

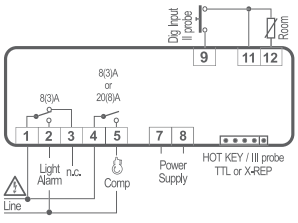
XR10CX	Digital thermostat with heating or cooling action
XR20CX	Digital controller for NT with "off cycle" defrost
XR30CX	Digital controller for NT with "off cycle" defrost and additional configurable relay
XR35CX	Digital controller for NT with "off cycle" defrost, additional configurable relay and RS485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

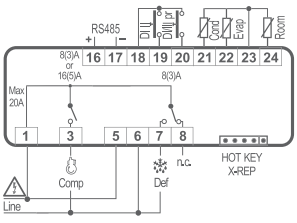
XR10CX - XR20CX



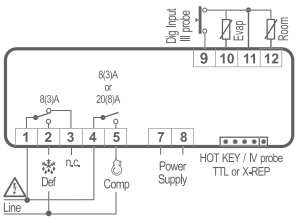
XR30CX



XR35CX



XR40CX



CONTROLLERS for STATIC or VENTILATED APPLICATIONS

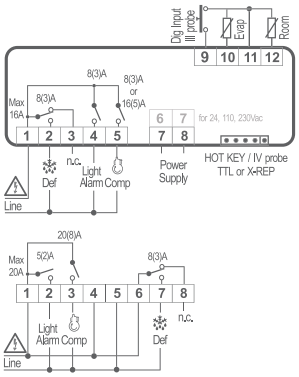
PRIME CX

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

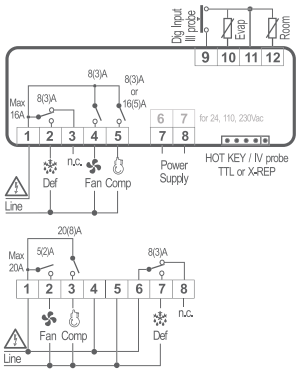
CX: 32x74mm

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						

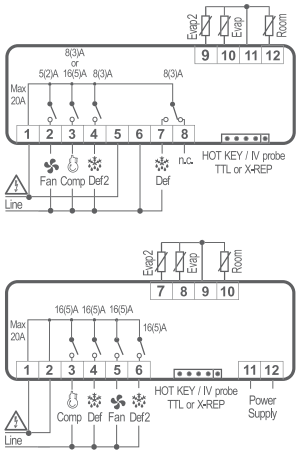
XR50CX



XR60CX



XR64CX



PRIME CX

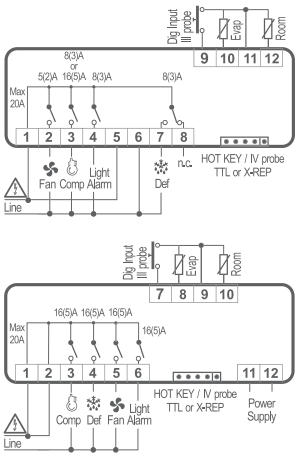
CONTROLLERS for VENTILATED APPLICATIONS

CX: 32x74mm

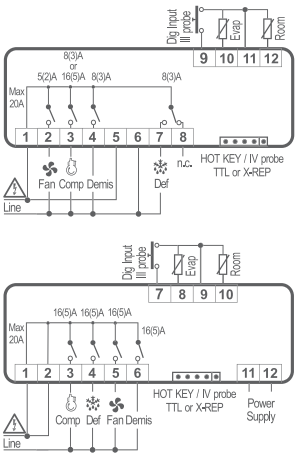
XR70CX	Digital controller for NT and LT with auxiliary relay and dual humidity function
XR71CX	Digital controller for NT and LT with anti sweat heater management
XR72CX	Digital controller for NT and LT with dual compressor management

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				

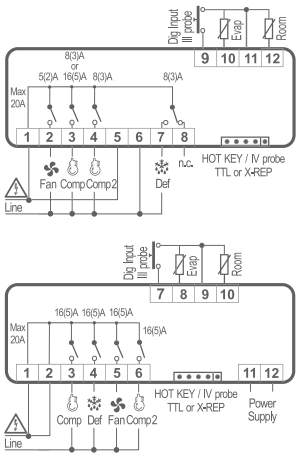
XR70CX



XR71CX



XR72CX



CONTROLLERS for VENTILATED APPLICATIONS or for MILK COOLING and AIR DRYERS

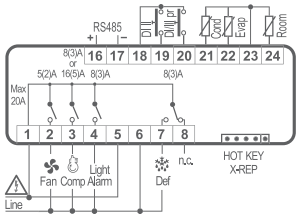
PRIME CX

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

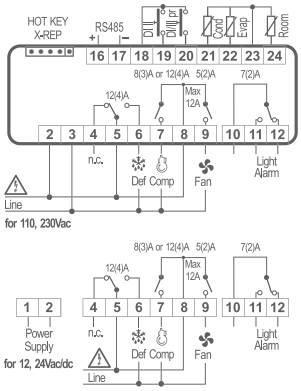
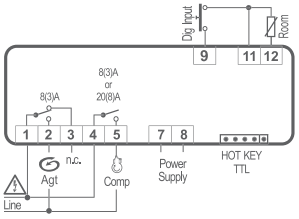
CX: 32x74mm

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