



D: 4 DIN Rail



CX: 32x74mm



100x64mm

XC400/600 SERIES: up to 6 COMPRESSOR/FAN OUTPUT APPLICATIONS also with INVERTER MANAGEMENT

- Electronic controllers for compact compressor racks management also with inverter
- Compressor types: Digital™, multi-stages, differing power, semi-hermetic, scroll and screw
- Proportional band or neutral zone control
- Floating condensing pressure control depending on the external temperature
- High configurability and flexibility
- Automatic switch-off of the compressors in case of high condensing pressure/temperature
- Silent mode function for fans during the night
- Correct lubrication automatic restore cycle
- Safer control with low pressure electronic pressure switch
- Type of gas setting: to control temperature or pressure
- Hot Key or Prog Tool Kit connector for quick and easy programming
- Serial connection to monitoring systems
- 5VA max power absorption
- Dual display with red LED (8,5mm high) and yellow LED (7,5mm high) and 17 icons

HOW to ORDER

XC400/600CX X C [] [] C X - A B C D E

XC600D X 6 [] [] D - A B 1 D E

VC660 V C 6 6 0 - 0 0 C 0 0

A	B	C	D	E
Power supply*	Measurement unit	Buzzer	TRIAC voltage**	Analog outputs
0 = 12Vac/dc	C = °C	0 = No	0 = 110÷230Vac	No
1 = 24Vac/dc	F = °F	1 = Yes	1 = 110÷230Vac	Yes
4 = 110Vac	B = Bar		2 = 24Vac	No
5 = 230Vac	P = PSI		3 = 24Vac	Yes
	H = KPA		4 = No TRIAC	No
			5 = No TRIAC	Yes
				Input
				A = PP11 (only for XC450CX)
				B = PP30 (only for XC450CX)
				C = NTC
				E = 4÷20mA
				F = PP11 (suction)/PP30 (discharge)
				H = 0÷5V (ratiometric)

* 0, 1 (only for XC400CX and XC600CX)
4, 5 (only for XC600D)

** 0, 1, 2, 3 (only for XC645)
4, 5 (not for XC645)

TYPE of COMPRESSOR RACKS

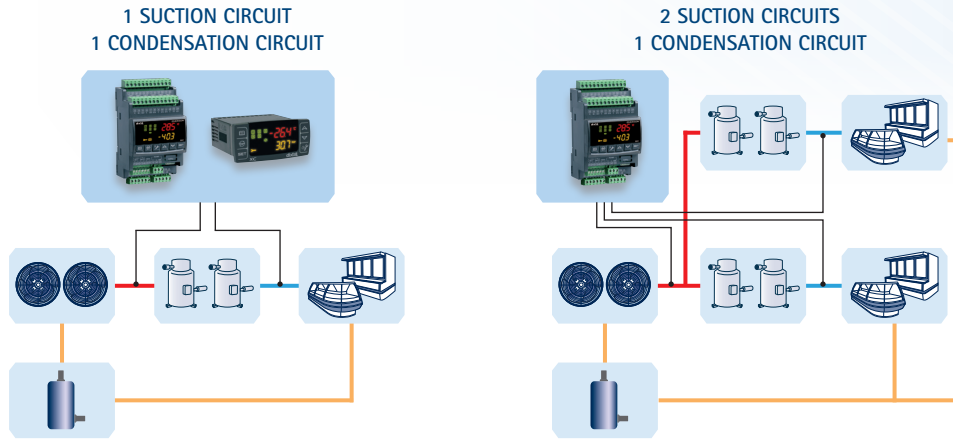
The XC400/600 series, thanks to a powerful and complete range, ensures optimal management of compact compressor racks:

- with compressors and fans also with suction or discharge inverter;
- with 2 discharge and 1 suction also with inverter;
- with Digital™ compressors.

XC645CX - XC645D
APPROVED FOR



Example of circuits managed by the XC400/600 series



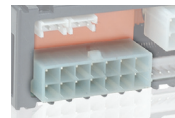
CONNECTIONS

2 different version of terminal block are available depending on the model of the controllers:

Screws for XC400CX



Disconnectable for XC600CX

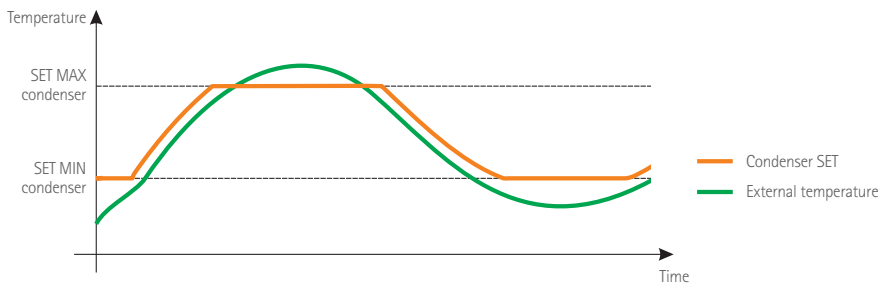


Screw disconnectable for XC600D



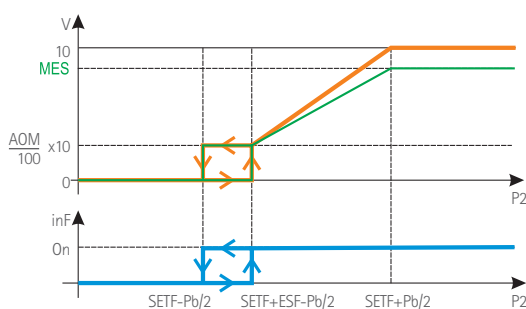
FLOATING CONDENSING

The dynamic set point guarantees excellent plant efficiency, taking real operational conditions into consideration. The condensing set point is automatically adjusted according to the external temperature, keeping the safety values, to optimize the condensing temperature. The reduction of this temperature entails a reduction of the pressure gap between suction and condensing decreasing the consumption of compressors and saving energy.



FAN FUNCTIONING DURING NIGHT MODE

This special function allows the maximum fan speed to be decreased, which reduces plant noise. Thanks to the MES (Maximum output during Energy Saving) the maximum fan speed is reduced during the night.



- SETF: supply pressure setting to be maintained
- Pb/2: regulation band centred around the setting
- AOM: minimum allowed speed for the fans
- inF: relay set as fan inverter
- P2: condensing pressure (temperature) probe
- V: analogical output value set as 0÷10V
- ESF: energy saving differential for fan regulation

XC400/600

Up to 5 COMPRESSOR/FAN COMPRESSOR RACK CONTROLLERS also with INVERTER MANAGEMENT



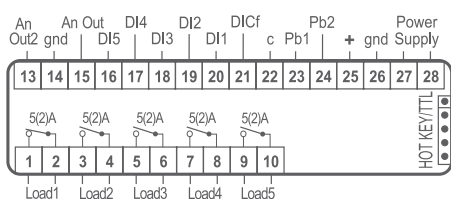
CX: 32x74mm

D: 4 DIN Rail

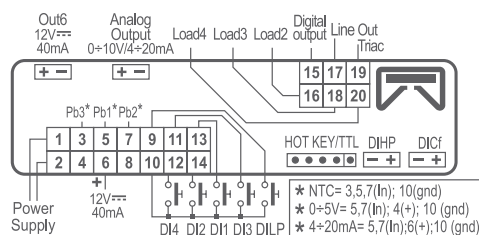
XC450CX	Digital controller for managing up to 5 compressors or fans
XC640D	Digital controller for simultaneous management of up to 4 compressors and fans
XC645CX XC645D	Digital controllers for Digital™ compressor management

FEATURES	XC450CX	XC640D	XC645CX	XC645D
First display: n° digits	± 4 d.p.	± 4 d.p.	± 4 d.p.	± 4 d.p.
Second display: n° digits	± 4 d.p.	± 4 d.p.	± 4 d.p.	± 4 d.p.
Power supply	12, 24Vac/dc	110, 230Vac	12, 24Vac/dc	110, 230Vac
Probe inputs				
Suction	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC
Suction 2				
Condensing	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC
Configurable		NTC	NTC	NTC
Digital inputs				
Low pressure switch		1	1	1
High pressure switch		1	1	1
Alarm	5	4	4	5
Configurables	1	2	1	2
Relay outputs				
Loads	5 x 5A	4 x 5A	4 x 5A	4 x 5A
Other outputs				
Digital™ compressor			TRIAC	TRIAC
Inverter-compressor		4÷20mA/0÷10V opt		4÷20mA/0÷10V opt
Inverter-fans		4÷20mA/0÷10V opt		4÷20mA/0÷10V opt
Load			12V/40mA	
Hot Key/Prog Tool Kit	pres	pres	pres	pres
Serial	TTL	RS485	TTL	RS485
Other				
Remote keyboard		VC660		VC660
Alarms	last 10	last 10	last 10	last 10
Buzzer	opt	pres	opt	pres
Connection kit			CWC15-KIT, CWC30-KIT, CAB/CJ15, CAB/CJ30	

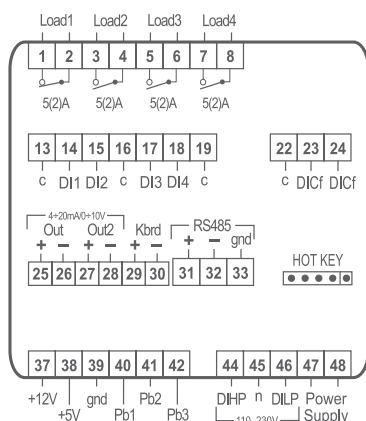
XC450CX



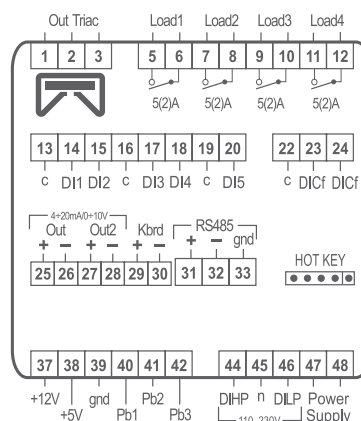
XC645CX



XC640D



XC645D



Up to 6 COMPRESSOR/FAN COMPRESSOR RACK CONTROLLERS and KEYBOARD also with INVERTER MANAGEMENT

XC600

XC650CX	Digital controller for simultaneous management of up to 5 compressors and fans
XC652CX	Compressor rack digital controller with 2 suction
XC660D	Digital controller for simultaneous management of up to 6 compressors and fans
VC660	Keyboard for XC660D controllers



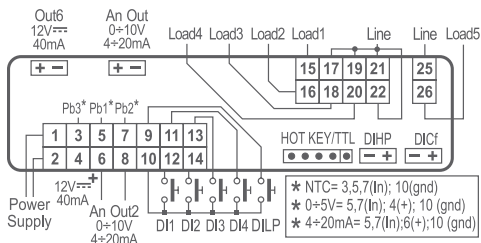
CX: 32x74mm

D: 4 DIN Rail

100x64mm

FEATURES	XC650CX	XC652CX	XC660D	VC660
First display: n° digits	± 4 d.p.	± 4 d.p.	± 4 d.p.	± 4 d.p.
Second display: n° digits	± 4 d.p.	± 4 d.p.	± 4 d.p.	± 4 d.p.
Power supply	12, 24Vac/dc	12, 24Vac/dc	110, 230Vac	from controller
Probe inputs				
Suction	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	0÷5V, 4÷20mA, NTC	
Suction 2		0÷5V, 4÷20mA, NTC		
Condensing	0÷5V, 4÷20mA, NTC	NTC	0÷5V, 4÷20mA, NTC	
Configurable	NTC		0÷5V, 4÷20mA, NTC	
Digital inputs				
Low pressure switch	1	1	1	
High pressure switch	1	1	1	
Alarm	4	4	6	
Configurables	1	1	2	
Relay outputs				
Loads	5 x 5A	5 x 5A	6 x 5A	
Other outputs				
Digital™ compressor				
Inverter-compressor	4÷20mA/0÷10V opt	4÷20mA/0÷10V opt	4÷20mA/0÷10V opt	
Inverter-fans	4÷20mA/0÷10V opt	4÷20mA/0÷10V opt	4÷20mA/0÷10V opt	
Load	12V/40mA	12V/40mA		
Hot Key/Prog Tool Kit	pres	pres	pres	
Serial	TTL	TTL	RS485	
Other				
Remote keyboard			VC660	
Alarms	last 10	last 10	last 10	
Buzzer	opt	opt	pres	opt
Connection kit	CW15-KIT, CW25-KIT, CAB/CJ15, CAB/CJ30	CW15-KIT, CW25-KIT, CAB/CJ15, CAB/CJ30		

XC650CX - XC652CX



XC660D

