

# ECP202 EXPERT

Control panel for cold rooms with single-phase compressor up to 2 HP, specially designed to provide safety, protection, control and easy-installation – all in one unit.

It allows a complete control of all the components on a refrigeration system.

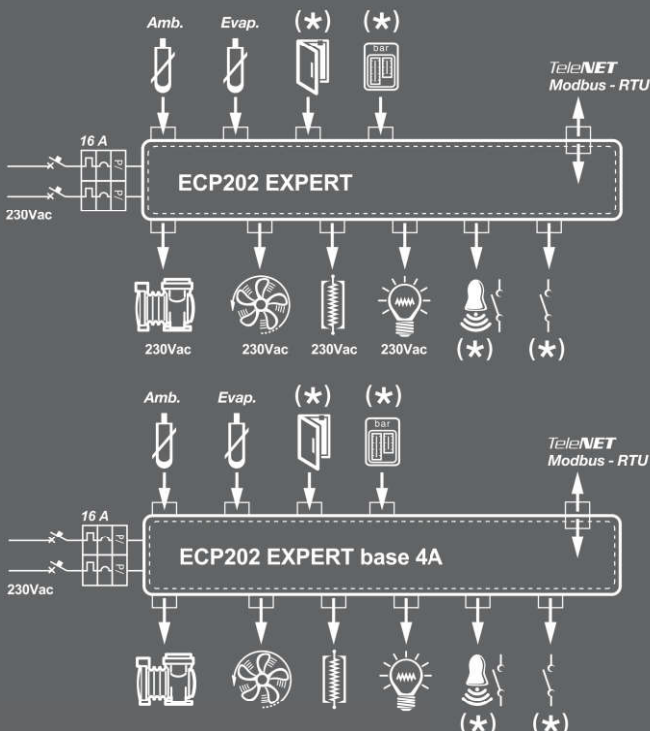


## APPLICATIONS

- Complete control of single-phase static or ventilated refrigeration systems up to 2 HP, with off-cycle or electrical defrosting and direct or pump-down compressor stop.
- Control of single-phase evaporating unit with solenoid valve and remote motor condenser enabling.

## CONNECTION DIAGRAMS

(\*) = Configurable function



## MAIN CHARACTERISTICS

- Direct control of compressor, defrosting heaters, evaporator fans and room light with live outputs directly connectable to the various devices or free voltage contacts.
- Built-in differential magnetothermic breaker for protection and cut-off of refrigeration unit.
- Innovative, stylish design. Lockable transparent cover for access to magnetothermic breaker, all with IP65 protection rating.
- 2 auxiliary relays with parameter-configured activation (alarm, temperature set-point, direct control via frontal pushbutton, door heater elements, remote motor condenser unit enabling, solenoid valve control enabling where compressor pump-down operation is applied, stand-by).
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.
- Easy installation and opening thanks to new hinged cover.
- Can be configured for hot applications or cold applications.
- Functions for energy saving.



TECHNICAL CHARACTERISTICS	ECP 202 EXPERT	ECP 202 EXPERT BASE 4A
<b>DIMENSIONS</b>	263 x 180 x 96 mm	263 x 180 x 96 mm
<b>WEIGHT</b>	0,6 kg	0,6 kg
<b>POWER SUPPLY</b>		
<b>VOLTAGE</b>	230 V AC ±10% 50-60 HZ	230 V AC ±10% 50-60 HZ
<b>MAX ABSORBED POWER (ELECTRONIC CONTROL)</b>	~ 7 VA	~ 7 VA
<b>AMBIENT CONDITIONS</b>		
<b>WORKING TEMPERATURE</b>	-5 ÷ +50 °C	-5 ÷ +50 °C
<b>STORAGE TEMPERATURE</b>	-30 ÷ +70°C	-30 ÷ +70°C
<b>RELATIVE HUMIDITY</b>	< 90% RH	< 90% RH
<b>GENERAL CHARACTERISTICS</b>		
<b>CONNECTABLE SENSOR TYPES</b>	NTC 10 kΩ	NTC 10 kΩ
<b>RESOLUTION</b>	0,1 °C	0,1 °C
<b>PROBE READ PRECISION</b>	±0,5 °C	±0,5 °C
<b>READ RANGE</b>	-45 ÷ +99 °C	-45 ÷ +99 °C
<b>OUTPUT CHARACTERISTICS</b>		
<b>COMPRESSOR</b>	1500 W (2HP)	1500 W (2HP) FREE VOLTAGE CONTACT
<b>DEFROST</b>	3000 W (AC1)	3000 W (AC1) FREE VOLTAGE CONTACT
<b>FANS</b>	500 W (AC3)	500 W (AC3) FREE VOLTAGE CONTACT
<b>ROOM LIGHT</b>	800 W (AC1)	800 W (AC1) FREE VOLTAGE CONTACT
<b>CONFIGURABLE ALARM CONTACT / AUX 1 (VOLTAGE-FREE CONTACT)</b>	PRESENT	PRESENT
<b>CONFIGURABLE ALARM CONTACT / AUX 2 (VOLTAGE-FREE CONTACT)</b>	PRESENT	PRESENT
<b>SUPERVISION SYSTEM</b>	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU
<b>GENERAL ELECTRIC PROTECTION</b>		
<b>BIPOLAR DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER</b>	16 A ID = 300 mA SWITCHING POWER 4,5 kA ID = 30 mA (ON REQUEST)	16 A ID = 300 mA SWITCHING POWER 4,5 kA ID = 30 mA (ON REQUEST)
<b>INSULATION AND MECHANICAL CHARACTERISTICS</b>		
<b>BOX PROTECTION RATING</b>	IP65	IP65
<b>BOX MATERIAL</b>	SELF-EXTINGUISHING ABS	SELF-EXTINGUISHING ABS
<b>INSULATION TYPE</b>	Class II	Class II