



SINGLE PHASE COLD ROOM PANEL

Product description:

The ECP202 EXPERT is a control panel for cold rooms with a single-phase compressor up to 2 HP, specially designed to provide the user with safety, protection, control and ease of installation. It allows the user to control all the components on a refrigerating system: compressor, evaporator fans, defrosting elements and room light.

Product features:

- ▶ Cold room temperature displaying and regulation with decimal point.
- ▶ Plant control activation/deactivation. - Plant alarms signalling (probe error, minimum and maximum temperature alarm, compressor protection, door alarm).
- ▶ LED indicators and large display illustrate system status.
- ▶ Evaporator fans management. - Manual and automatic defrost
- ▶ User-friendly keypad.
- ▶ Direct or pump-down management and control of condensing unit up to 2HP.
- ▶ Cold room light activation through key on the panel or through door-switch.
- ▶ Direct control of compressor, defrosting elements, evaporator fans, room light with outputs directly connectable to the various units.
- ▶ 2 auxiliary relays with parameter-configured.
- ▶ RS485 to connect to a TeleNET supervision system or a MODBUS-RTU network.
- ▶ Emergency operation in the event of a faulty probe environment.
- ▶ Smart defrost (energy saving).
- ▶ Reduced set (night set) from digital input.
- ▶ Can be configured for hot or cold applications.
- ▶ Configurable digital inputs.

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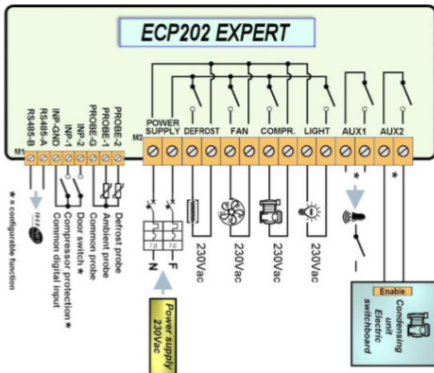
www.thermofrostcryo.co.uk

ECP202 Expert control panel

Application

Complete management of single-phase static or ventilated refrigeration systems up to 2 HP, with off-cycle or electrical defrosting and with direct or pump-down compressor stop. Control of single-phase evaporator unit only with refrigerant solenoid valve or remote condensing unit control.

Connection diagram



Technical

Dimension	262 x 180 x 97 mm
Weight	0.6 Kg
Voltage	230 VAC $\pm 10\%$ 50/60 Hz
Max absorbed power	7 VA
Working temperature	-5 \div +50°C
Storage temperature	-10 \div +70°C
Relative humidity	<90% Rh
Connectable sensor types	NTC 10 K Ω
Resolution	0,1 °C
Probe read precision	$\pm 0,5$ °C
Read range	-45 \div +99°C
Compressor	1500 W (2HP)
Defrost	3600 W (AC1)
Fans	500 W (AC3)
Room light	800 W (AC1)
Configurable alarm contact / AUX	Present
Supervision system	TELENET/MODBUS-RTU
Box protection rating	IP 65
Box material	Self-extinguishing ABS
Insulation type	Class II
Bipolar differential magnetothermic circuit breaker	16A ID= 300 mA / Switching power 4,5 kA ID=30 mA (on request) / 16A ID= 300 mA