

ECP200 EXPERT 2EV

ECP 200 EXPERT 2EV control panel increases the range 200 EXPERT with a controller for cold rooms with single-phase compressor up to 2 HP and **two evaporators**, specially designed to provide safety, protection, control and ease-of-installation – all in one unit. It allows a complete control of all the components on a refrigeration system with new features added.



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 two evaporators with two temperature probes of end defrost.
- Control of evaporating unit (single or double evaporator) only with solenoid valve and remote motor condenser enabling.

MAIN CHARACTERISTICS

- Defrost with real time clock.
- Independent and separated functions for alarm relay, condensing unit enable and TeleNET monitoring system.
- HACCP function with memory of the last alarm and number of alarm counter.
- Direct control of compressor, defrosting heaters, evaporator fans and room light with free-voltage outputs.
- Built-in differential magnetothermic breaker for protection and cut-off of refrigeration unit.
- Innovative, stylish design. Transparent cover for access to magnetothermic breaker, all with IP65 protection rating.
- Auxiliary relay with parameter-configured activation (alarm, temperature set-point, direct control via frontal pushbutton, thermostat-holder demisting element, remote motor condenser unit consensus, solenoid valve control consensus where compressor pump-down operation is applied).
- Dedicated enabling of condensing unit in single evaporator configuration.
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.
- Simple wiring.
- Easy installation and opening thanks to new hinged cover.
- Simple, flexible programming gives extreme versatility of use.
- Compressor can be run in pump-down stop mode.
- Installation times and costs reduced thanks to incorporation of control and protection in a single room-dedicated unit.



TECHNICAL CHARACTERISTICS	ECP 200 EXPERT 2EV
BOX DIMENSIONS	263 x 180 x 96 mm
WEIGHT	2 kg
PROTECTION RATING	IP65
POWER SUPPLY	230 V AC $\pm 10\%$ 50-60 Hz
LOAD TYPE	SINGLE PHASE
WORKING TEMPERATURE	-5 \div +50 °C
STORAGE TEMPERATURE	-10 \div +70 °C
RELATIVE AMBIENT TEMPERATURE	< 90% RH
MAIN SWITCH - GENERAL PROTECTION	2 POLES DIFFERENTIAL MAGNETOTHERMIC 16 A
CONTROL	PEGO
DEFROSTING	ELECTRICAL
COMPONENT STATUS INDICATORS	LED + DISPLAY
ALARM SIGNALS	LED + BUZZER
REAL TIME CLOCK DEFROST	PRESENT (RTC)
INPUTS	
AMBIENT PROBE	NTC 10 k Ω 1%
EVAPORATOR PROBE 1	NTC 10 k Ω 1%
EVAPORATOR PROBE 2	NTC 10 k Ω 1%
DOOR SWITCH	PRESENT
HIGH/LOW PRESSURE SWITCH	PRESENT
MAN IN COLD ROOM ALARM	PRESENT
COMPRESSOR WORK MODE SELECTION	PUMP-DOWN / THERMOSTAT
OUTPUTS	
COMPRESSOR	1500 W (AC3)
EVAPORATOR FANS	500 W (AC3)
DEFROSTING HEATERS 1	1500 W (AC1)
DEFROSTING HEATERS 2	1500 W (AC1)
ROOM LIGHT	800 W (AC1) RESISTIVE LOAD
SOLENOID VALVE	PRESENT
AUXILIARY RELAY OR ALARM	100 W
SUPERVISION SYSTEM	TELENET / MODBUS-RTU

CONNECTION DIAGRAM (*) = Configurable function

