

# ECP300 EXPERT U VD

ECP300 Expert U VD 6 | ECP300 Expert U VD 12

A line of power and control panels for refrigeration systems to control only the three-phase evaporating unit where units are served by a central refrigerator or remote condenser unit.

Magneto-thermic and differential protection for room light accessible from the front panel linked to an innovative form makes it a perfect and functional choice.

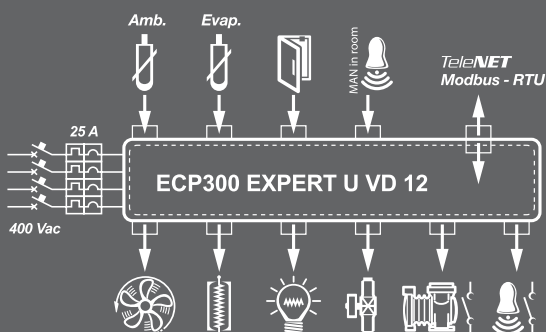
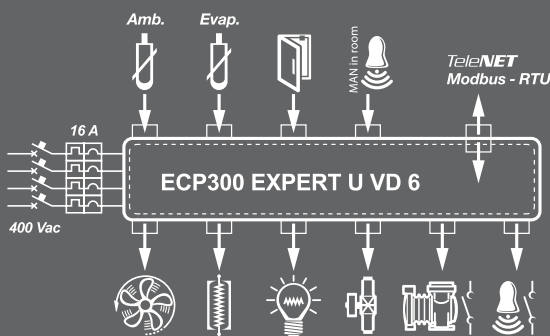
Available version with PULSE electronic valve integrated control.



## APPLICATIONS

- Control of evaporating unit with electrical defrost up to 12 kW.

## CONNECTION DIAGRAMS



## MAIN CHARACTERISTICS

- Enable for motor condenser unit, defrosting elements, evaporator fans, solenoid valve, room light and all standard-compliant electrical safeguards.
- Magneto-thermic circuit breaker accessible from the front panel, which cuts the general power supply.
- Differential magneto-thermic  $I_d=30$  mA dedicated to room light accessible from the front panel (see the table).
- Easy wiring on the internal terminal block.
- Auxiliary relay with activation configurable by parameter.
- Transparent cover for access to all the protections, all with IP65 protection rating.
- Electronic control with wide LED display and easy to use buttons.
- Signaling with LED icons of the plant status.
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.



TECHNICAL CHARACTERISTICS	ECP300 EXPERT U VD 6	ECP300 EXPERT U VD 12
<b>BOX DIMENSIONS</b>	400 x 300 x 135 mm	400 x 300 x 135 mm
<b>WEIGHT</b>	9 kg	10 kg
<b>PROTECTION RATING</b>	IP65	IP65
<b>POWER SUPPLY</b>	400 V AC $\pm$ 10% 50-60 Hz	400 V AC $\pm$ 10% 50-60 Hz
<b>LOAD TYPE</b>	THREE-PHASE	THREE-PHASE
<b>WORKING TEMPERATURE</b>	-5 $\div$ +40 °C	-5 $\div$ +40 °C
<b>STORAGE TEMPERATURE</b>	-25 $\div$ +55 °C	-25 $\div$ +55 °C
<b>RELATIVE AMBIENT HUMIDITY</b>	30% - 90% RH W/OUT CONDENSATE	30% - 90% RH W/OUT CONDENSATE
<b>RANGE OF READING</b>	-45 $\div$ +45 °C	-45 $\div$ +45 °C
<b>MAIN SWITCH / GENERAL PROTECTION</b>	4 POLES MAGNETOTHERMIC 16 A	4 POLES MAGNETOTHERMIC 25A
<b>ROOM LIGHT PROTECTION</b>	DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER (OPTIONAL)	DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER
<b>CONTROL</b>	PEGO	PEGO
<b>DEFROSTING</b>	ELECTRICAL	ELECTRICAL
<b>STATUS INDICATORS</b>	LED + DISPLAY	LED + DISPLAY
<b>ALARM SIGNALS</b>	LED + BUZZER	LED + BUZZER
<b>INPUTS</b>		
<b>AMBIENT PROBE</b>	NTC 10 k $\Omega$	NTC 10 k $\Omega$
<b>EVAPORATOR PROBE</b>	NTC 10 k $\Omega$	NTC 10 k $\Omega$
<b>DOOR SWITCH</b>	PRESENT	PRESENT
<b>MAN IN COLD-ROOM ALARM</b>	AVAILABLE	AVAILABLE
<b>OUTPUTS</b>		
<b>EVAPORATOR FANS</b>	550 W (1PH)	2x2000 W (3PH) OR 2x1500 W (1PH)
<b>DEFROSTING HEATERS</b>	6000 W (AC1) EQ. RESISTIVE LOAD	12000 W (AC1) EQ. RESISTIVE LOAD
<b>ROOM LIGHT</b>	800 W (AC1) RESISTIVE LOAD	1200 W (AC1) RESISTIVE LOAD
<b>SOLENOID VALVE</b>	PRESENT	PRESENT
<b>ENABLE CONDENSING UNIT</b>	PRESENT	PRESENT
<b>CONFIGURABLE ALARM RELAY</b>	PRESENT	PRESENT
<b>DOOR HEATER</b>	PRESENT	PRESENT
<b>SUPERVISION SYSTEM</b>	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU