

ECP__BASE4 VD

ECP300 Base4 VD | ECP400 Base4 VD
 ECP750 Base4 VD | ECP1000 Base4 VD

A line of control panels for cold rooms with three-phase compressor up to 10 HP, specially designed for complete cold room management. Together with the various options, the different power ranges allow the user to select a unit that is “custom-made” to suit the refrigeration system.



APPLICATIONS

- Complete control of three-phase static or ventilated refrigeration systems up to 10 HP, off-cycle or electrical defrosting.

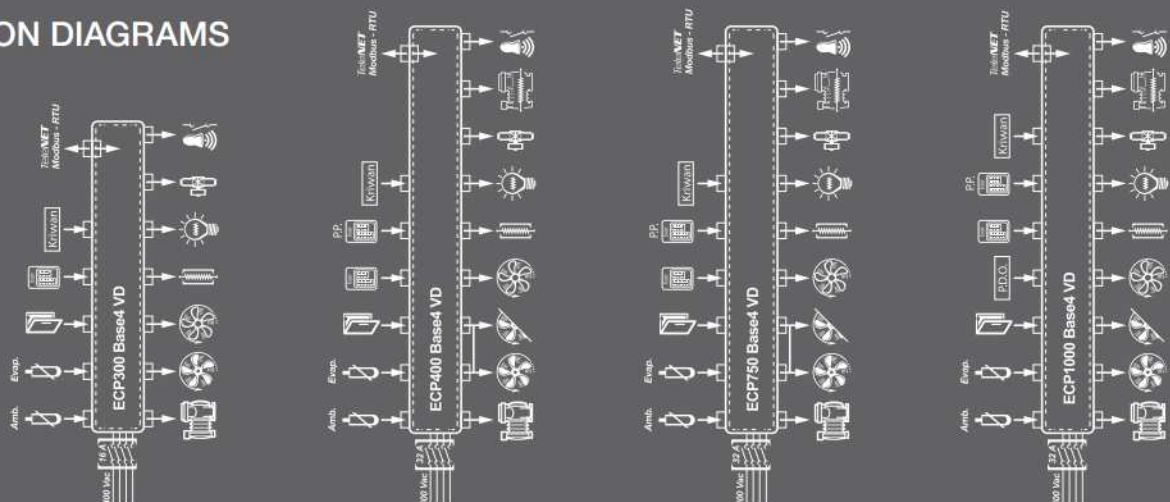
OPTIONS

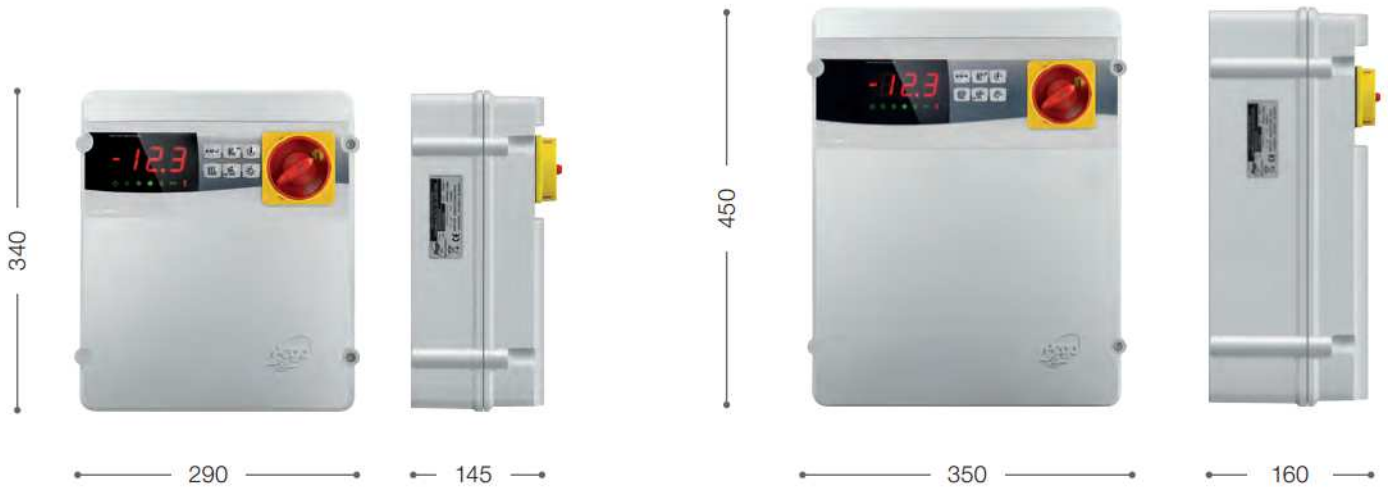
- Installation of magnetothermic protection devices instead of fuses.
- Alarm output with free-voltage contact to activate further warning devices such as siren or dialler.
- Pump-down compressor stop.
- Hot-gas defrost control.

MAIN CHARACTERISTICS

- Direct control of compressor, condenser fans, compressor oil heater, defrosting heaters, evaporator fans, solenoid valve, room light and all standard-compliant electrical protection devices.
- Compact, self-extinguishing ABS housing with IP65 protection rating and frontal circuit-breaker.
- Electronic control with wide LED display and user-friendly keypad.
- System status indicated by icons.
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.

CONNECTION DIAGRAMS





TECHNICAL CHARACTERISTICS	ECP300 BASE4 VD	ECP400 BASE4 VD	ECP750 BASE4 VD	ECP1000 BASE4 VD
BOX DIMENSIONS	290 X 340 X 145 mm	350 X 450 X 160 mm	350 X 450 X 160 mm	350 X 450 X 160 mm
WEIGHT	5 Kg	6 Kg	6 Kg	7 Kg
PROTECTION RATING	IP 65	IP 65	IP 65	IP 65
POWER SUPPLY	400 V AC ±10% 50/60 Hz	400 V AC ±10% 50/60 Hz	400 V AC ±10% 50/60 Hz	400 V AC ±10% 50/60 Hz
LOAD TYPE	THREE-PHASE	THREE-PHASE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 ÷ +50°C	-5 ÷ +50°C	-5 ÷ +50°C	-5 ÷ +50°C
STORAGE TEMPERATURE	-10 ÷ +70°C	-10 ÷ +70°C	-10 ÷ +70°C	-10 ÷ +70°C
RELATIVE AMBIENT HUMIDITY	< 90% Rh	< 90% Rh	< 90% Rh	< 90% Rh
RANGE OF READING	-45 ÷ +45 °C	-45 ÷ +45 °C	-45 ÷ +45 °C	-45 ÷ +45 °C
MAIN SWITCH	16 A	32 A	32 A	32 A
OVERLOAD PROTECTION	THERMAL RELAY	THERMAL RELAY	THERMAL RELAY	THERMAL RELAY
GENERAL PROTECTION	FUSES	FUSES	FUSES	FUSES
CONTROL	PEGO	PEGO	PEGO	PEGO
DEFROSTING	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
INSULATION TRANSFORMER		PRESENT	PRESENT	PRESENT
STATUS INDICATORS	LED + DISPLAY	LED + DISPLAY	LED + DISPLAY	LED + DISPLAY
ALARM SIGNALS	LED + BUZZER	LED + BUZZER	LED + BUZZER	LED + BUZZER
INPUTS				
AMBIENT PROBE	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ
EVAPORATOR PROBE	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ
DOOR SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
OIL DIFFERENTIAL PRESSURE SWITCH				PRESENT
HIGH/LOW PRESSURE SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
KRIWAN® CONNECTION	PRESENT	PRESENT	PRESENT	PRESENT
OUTPUTS				
COMPRESSOR	2200 W (0,5÷3 HP)	2200÷3000 W (3÷4 HP)	3000÷5500 W (4÷7,5 HP)	5500÷7500 W (7÷10 HP)
CONDENSER FANS OUTPUT 1	800 W (1 PH)	800 W (1 PH)	800 W (1 PH)	2000 W (1 PH / 3PH)
CONDENSER FANS OUTPUT 2 (SEPARATED)		TOTAL (1 PH)	TOTAL (1 PH)	2000 W (1 PH / 3PH)
EVAPORATOR FANS	800 W (1 PH)	2000 W (1 PH)	2000 W (1 PH)	2000 W (1 PH / 3PH)
DEFROSTING HEATERS	4000 W (AC1)	7500 W (AC1)	9000 W (AC1)	12000 W (AC1)
ROOM LIGHT	PRESENT	PRESENT	PRESENT	PRESENT
SOLENOID VALVE	PRESENT	PRESENT	PRESENT	PRESENT
COMPRESSOR OIL HEATER		PRESENT	PRESENT	PRESENT
ALARM RELAY	PRESENT (ON REQUEST)	PRESENT (ON REQUEST)	PRESENT (ON REQUEST)	PRESENT (ON REQUEST)
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU