

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.

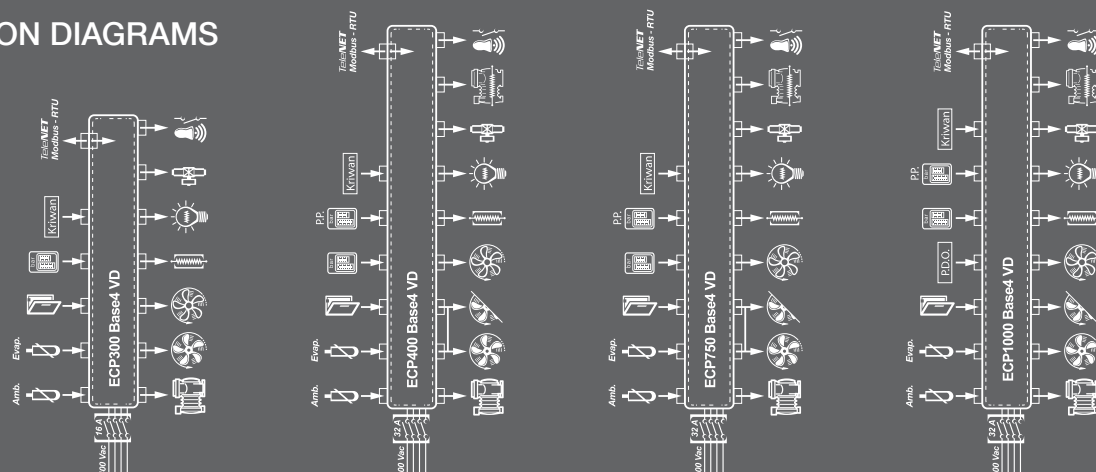
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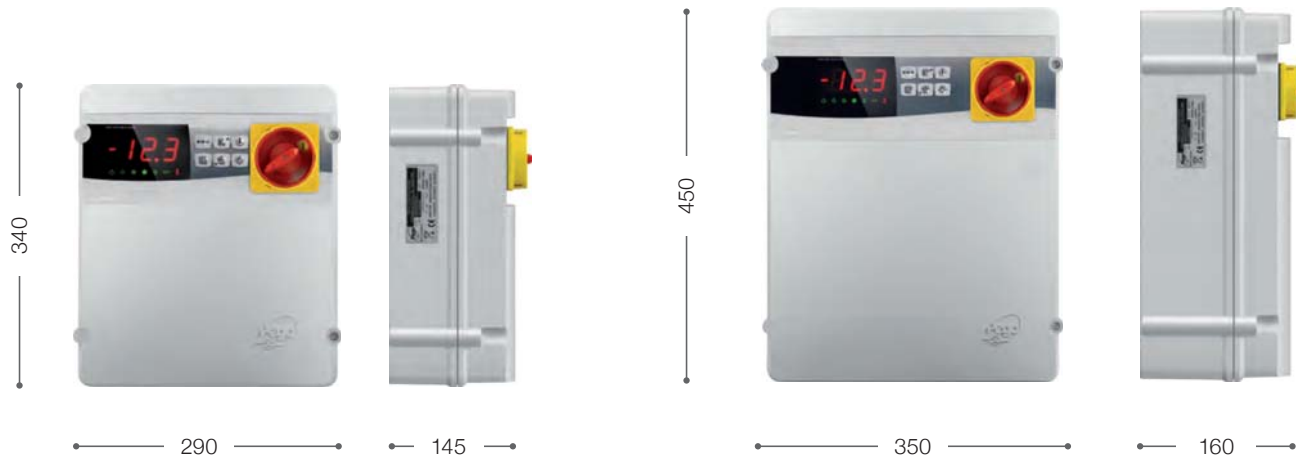
- Installation of magnetothermic protection devices instead of fuses.
- Alarm output with free-voltage contact to activate further warning devices such as siren or dialler.
- Pump-down compressor stop.
- Hot-gas defrost control.

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 $\pm 10\%$ 50/60 Hz	400 V AC $\pm 10\%$ 50/60 Hz	400 V AC $\pm 10\%$ 50/60 Hz	400 V AC $\pm 10\%$ 50/60 Hz
LOAD TYPE	THREE-PHASE	THREE-PHASE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 \div +50°C	-5 \div +50°C	-5 \div +50°C	-5 \div +50°C
STORAGE TEMPERATURE	-10 \div +70°C	-10 \div +70°C	-10 \div +70°C	-10 \div +70°C
RELATIVE AMBIENT HUMIDITY	< 90% Rh	< 90% Rh	< 90% Rh	< 90% Rh
RANGE OF READING	-45 \div +45 °C	-45 \div +45 °C	-45 \div +45 °C	-45 \div +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 K Ω	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω
EVAPORATOR PROBE	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω
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 \div 3 HP)	2200 \div 3000 W (3 \div 4 HP)	3000 \div 5500 W (4 \div 7,5 HP)	5500 \div 7500 W (7 \div 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

ECP BASE4 U VD

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

A line of power and electronic control panels to manage the three-phase evaporating unit only where devices are served by a compressor rack.

Various power ranges and a wide range of optionals allow you to choose the panel best suited to your system.



APPLICATIONS

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

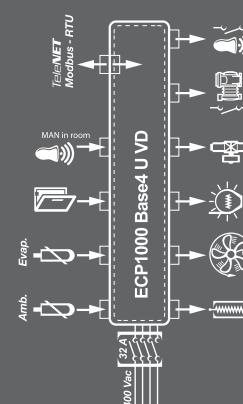
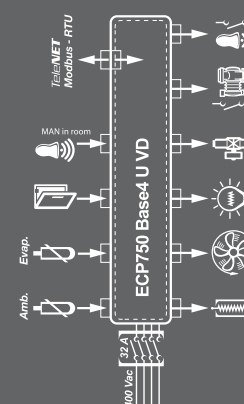
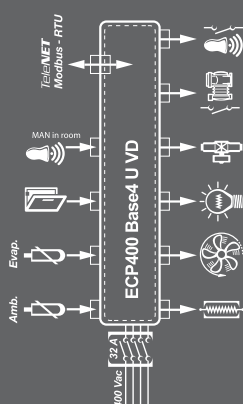
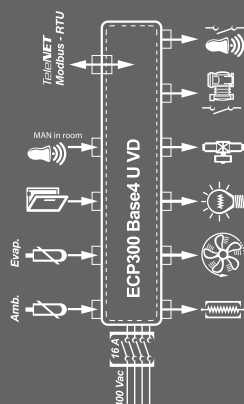
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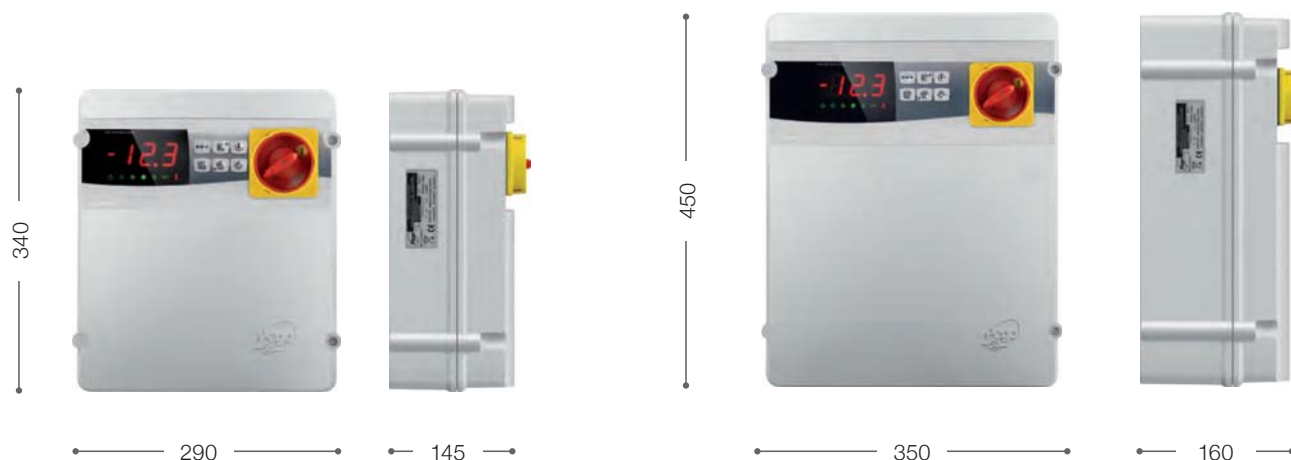
- Magnetothermic circuit breakers installed instead of fuses.
- Free-voltage contact alarm output to activate other warning devices such as sirens or dialers.

MAIN CHARACTERISTICS

- Enabling for condensing unit, defrosting elements, evaporator fans, solenoid valve, room light and all standard-compliant electrical safeguards.
- Compact, self-extinguishing ABS housing with IP65 protection rating and circuit breaker on front of panel.
- Control electronics with large backlit LCD and user-friendly keypad.
- LED system status indicators.
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.

CONNECTION DIAGRAMS





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LOAD TYPE	THREE-PHASE	THREE-PHASE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 \div +50°C	-5 \div +50°C	-5 \div +50°C	-5 \div +50°C
STORAGE TEMPERATURE	-10 \div +70°C	-10 \div +70°C	-10 \div +70°C	-10 \div +70°C
RELATIVE AMBIENT HUMIDITY	< 90% Rh	< 90% Rh	< 90% Rh	< 90% Rh
RANGE OF READING	-45 \div +45 °C	-45 \div +45 °C	-45 \div +45 °C	-45 \div +45 °C
MAIN SWITCH	16 A	32 A	32 A	32 A
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 K Ω	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω
EVAPORATOR PROBE	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω	NTC 10 K Ω
DOOR SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
MAN IN COLD-ROOM ALARM	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE
OUTPUTS				
EVAPORATOR FANS	500 W (1 PH)	2000 W (1 PH)	2X 2000 W (1 PH)	3X 2000 W (1 PH/3PH)
DEFROSTING HEATERS	4000 W	7500 W	9000 W	12000 W
ROOM LIGHT	PRESENT	PRESENT	PRESENT	PRESENT
SOLENOID VALVE	PRESENT	PRESENT	PRESENT	PRESENT
ENABLE CONDENSING UNIT	PRESENT	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