

# ECP\_\_BASE4 VDE

ECP1500 Base4 VDE | ECP2000 Base4 VDE  
ECP2500 Base4 VDE

A line of control panels for cold rooms with three-phase compressor up to 25 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 25 HP, off-cycle or electrical defrosting.

## OPTIONS

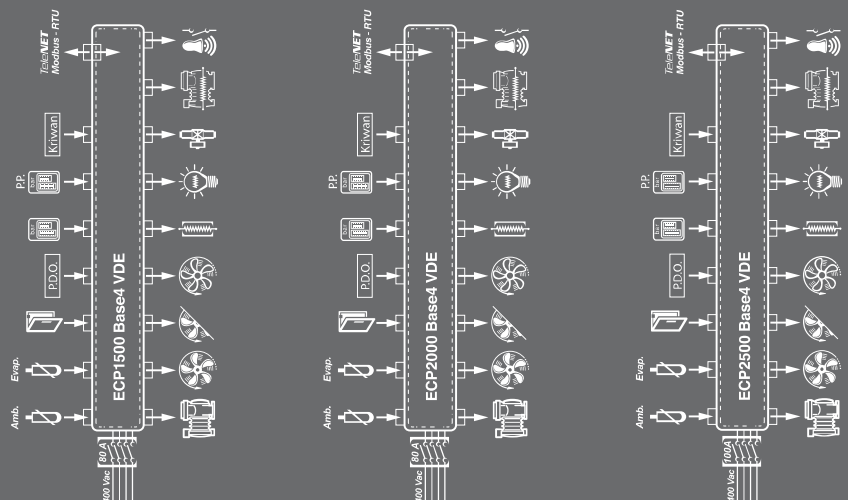
- Pump-down compressor stop.
- Hot-gas defrost control.

## 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.

- Protection of the loads and the auxiliary circuit with circuit breakers.
- Selection of functioning mode for the compressor (pump-down / thermostat).
- 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.
- Alarm output with free-voltage contact to activate further warning devices such as siren or dialer.

## CONNECTION DIAGRAMS





TECHNICAL CHARACTERISTICS	ECP1500 BASE4 VDE	ECP2000 BASE4 VDE	ECP2500 BASE4 VDE
BOX DIMENSIONS	470 X 650 X 210 mm	470 X 650 X 210 mm	470 X 650 X 210 mm
WEIGHT	20 Kg	20 Kg	20 Kg
PROTECTION RATING	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
LOAD TYPE	THREE-PHASE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 ÷ +50°C	-5 ÷ +50°C	-5 ÷ +50°C
STORAGE TEMPERATURE	-10 ÷ +70°C	-10 ÷ +70°C	-10 ÷ +70°C
RELATIVE AMBIENT HUMIDITY	< 90% Rh	< 90% Rh	< 90% Rh
RANGE OF READING	-45 ÷ +45 °C	-45 ÷ +45 °C	-45 ÷ +45 °C
MAIN SWITCH	80 A	80 A	100 A
COMPRESSOR PROTECTION	MOTOR CIRCUIT BREAKER	MOTOR CIRCUIT BREAKER	MOTOR CIRCUIT BREAKER
PROTECTION	CIRCUIT BREAKERS	CIRCUIT BREAKERS	CIRCUIT BREAKERS
CONTROL	PEGO	PEGO	PEGO
DEFROSTING	ELECTRICAL	ELECTRICAL	ELECTRICAL
INSULATION TRANSFORMER	PRESENT	PRESENT	PRESENT
STATUS INDICATORS	LED + DISPLAY	LED + DISPLAY	LED + DISPLAY
ALARM SIGNALS	LED + BUZZER	LED + BUZZER	LED + BUZZER
<b>INPUT</b>			
AMBIENT PROBE	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ
EVAPORATOR PROBE	NTC 10 KΩ	NTC 10 KΩ	NTC 10 KΩ
DOOR SWITCH	PRESENT	PRESENT	PRESENT
OIL DIFFERENTIAL PRESSURE SWITCH	PRESENT	PRESENT	PRESENT
HIGH/LOW PRESSURE SWITCH	PRESENT	PRESENT	PRESENT
KRIWAN® CONNECTION	PRESENT	PRESENT	PRESENT
CONDENSER FANS REGULATOR PRESS. SWITCH (R.P.S)	PRESENT	PRESENT	PRESENT
KLIXON CONNECTION FOR CONDENSER/ EVAPORATOR FANS	PRESENT	PRESENT	PRESENT
COMPRESSOR FUNCTIONING MODE SELECTION	PUMP DOWN - THERMOSTAT	PUMP DOWN - THERMOSTAT	PUMP DOWN - THERMOSTAT
<b>OUTPUTS</b>			
COMPRESSOR	7500÷11250 W (10÷15 HP)	11250÷15000 W (15÷20 HP)	15000÷18750 W (20÷25 HP)
CONDENSER FANS (SEPARATED)	2 X 2000 W (1 PH / 3 PH)	2 X 2000 W (1 PH / 3 PH)	2 X 2000 W (1 PH / 3 PH)
EVAPORATOR FANS	2 X 2000 W ( 3 PH)	3 X 2000 W ( 3 PH)	3 X 2000 W ( 3 PH)
DEFROSTING HEATERS	16500 W (AC1)	21000 W (AC1)	27000 W (AC1)
ROOM LIGHT	PRESENT	PRESENT	PRESENT
SOLENOID VALVE	PRESENT	PRESENT	PRESENT
COMPRESSOR OIL HEATER	PRESENT	PRESENT	PRESENT
ALARM RELAY	PRESENT	PRESENT	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU