

ECP__VD

ECP300 VD | ECP400 VD
ECP750 VD | ECP1000 VD

A line of power boards for refrigeration systems with three-phase compressors up to 10 HP to be linked to a thermostat, thermo-regulator or out-of-room control unit.

An electromechanical timer is incorporated for timed defrosts.



APPLICATIONS

- Control of three-phase static or ventilated refrigeration units up to 10 HP, with electric or off-cycle defrost linked to a thermostat, thermo-regulator or out-of-room control unit that issues a cold request.

OPTIONS

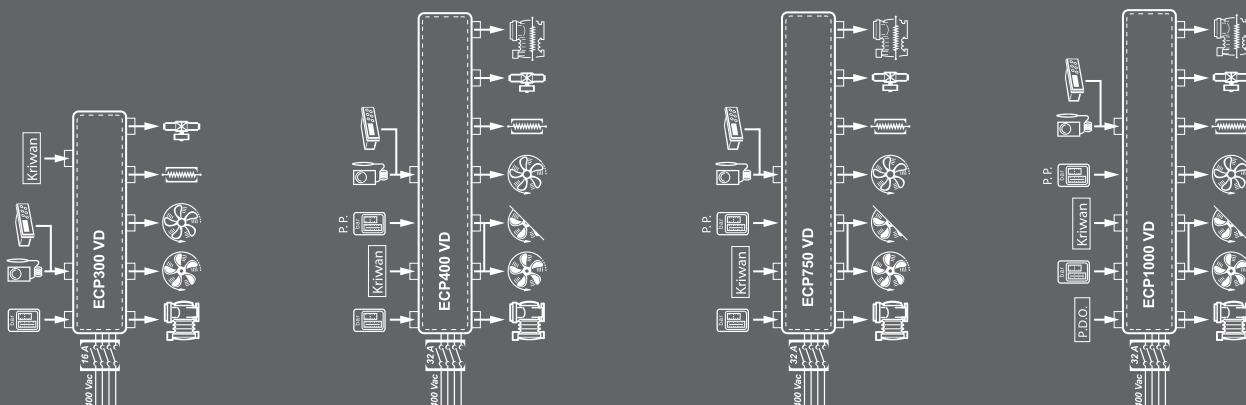
- Installation of magnetothermic circuit breakers instead of fuses.
- Compressor shutdown in pump-down mode.

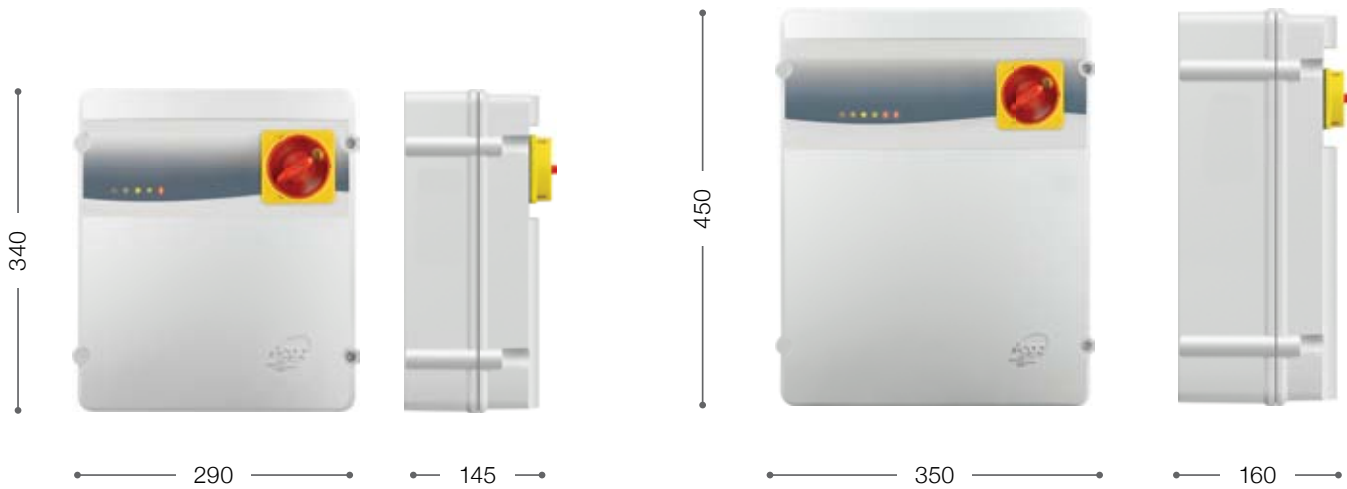
MAIN CHARACTERISTICS

- Enabling for motor condenser unit, defrosting elements, evaporator fans, solenoid valve, room light, door element and all standard-compliant electrical safeguards.
- Compact unit with self-extinguishing ABS housing panel and IP65 protection rating plus circuit breaker on front of panel.
- Electromechanical timer for timed defrosts
- System status indicated by LED icon.
- Can be controlled by thermostat, thermo-regulator or out-of-room control unit
- Can house thermo-regulator on front of panel.



CONNECTION DIAGRAMS





TECHNICAL CHARACTERISTICS	ECP300 VD	ECP400 VD	ECP750 VD	ECP1000 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	IP65	IP65	IP65	IP65
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
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	EXTERNAL ON /OFF EXTERNAL THERMOREGULATOR REMOTE CONTROL PANEL	EXTERNAL ON /OFF EXTERNAL THERMOREGULATOR REMOTE CONTROL PANEL	EXTERNAL ON /OFF EXTERNAL THERMOREGULATOR REMOTE CONTROL PANEL	EXTERNAL ON /OFF EXTERNAL THERMOREGULATOR REMOTE CONTROL PANEL
DEFROSTING	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
INSULATION TRANSFORMER		PRESENT	PRESENT	PRESENT
STATUS INDICATORS	LED	LED	LED	LED
ALARM SIGNALS	LED	LED	LED	LED
INPUTS				
THERMOSTAT OR PRESSURE SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
OIL DIFFERENTIAL PRESSURE SWITCH				PRESENT
HIGH/LOW PRESSURE SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
KRIWAN® CONNECTION	PRESENT	PRESENT	PRESENT	PRESENT
CONDENSER FANS REGULATOR PRESS. SWITCH (R.P.S.)		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 (1PH)	800 W (1PH)	800 W (1PH)	2000 W (3PH) OR 1500 W (1PH)
CONDENSER FANS OUTPUT 2 (SEPARATED)		800 W (1PH) TOTAL	800 W (1PH) TOTAL	2000 W (3PH) OR 1500 W (1PH)
EVAPORATOR FANS	800 W (1PH)	1500 W (1PH)	1500 W (1PH)	2000 W (3PH) OR 1500 W (1PH)
DEFROSTING HEATERS	4000 W (AC1)	7500 W (AC1)	9000 W (AC1)	12000 W (AC1)
SOLENOID VALVE	PRESENT	PRESENT	PRESENT	PRESENT
COMPRESSOR OIL HEATER		PRESENT	PRESENT	PRESENT