ECP VD CR

ECP300 VD CR | ECP400 VD CR ECP750 VD CR | ECP1000 VD CR

A line of power boards for refrigeration systems with three-phase compressors up to 10 HP to be linked to an out-of-room control unit.

Controls and powers the compressor, condenser fans, evaporator fans, solenoid valve, defrost elements managed by means of cold fans and defrost call enabling from out-of-room control unit.



APPLICATIONS

 Control of three-phase static or ventilated refrigeration systems up to 10 HP, with electric or off-cycle defrost linked to an out-of-room control unit.

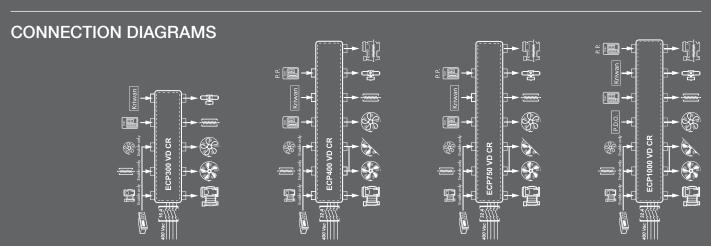
OPTIONS

- Installation of magnetothermic circuit breakers instead of fuses.
- Compressor shutdown in pump-down mode.
- Datalogger function with PLUSR200 EXPERT CR out-of-room controller for temperature and alarms registration.



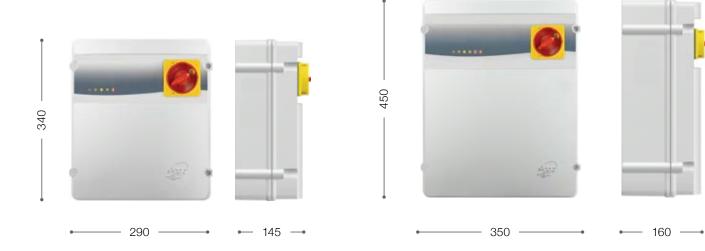
MAIN CHARACTERISTICS

- Direct control of compressor, condenser fans, compressor oil element, defrost elements, evaporator fans, solenoid valve and all standardcompliant electrical safeguards.
- Compact unit with self-extinguishing ABS housing panel and IP65 protection rating plus circuit breaker on front of panel.
- 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.



THREE-PHASE SYSTEMS

WITHOUT ELECTRONICS FOR REMOTE CONTROL



TECHNICAL CHARACTERISTICS		ECP300 VD CR	ECP400 VD CR		ECP750 VD CR		ECP1000 VD CR
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	COMPRESSOR	EXTERNAL ON /OFF	EXTERNAL ON /OFF		EXTERNAL ON /OFF		EXTERNAL ON /OFF
	DEFROST	EXTERNAL ON /OFF	EXTERNAL ON /OFF		EXTERNAL ON /OFF		EXTERNAL ON /OFF
	FANS	EXTERNAL ON /OFF	EXTERNAL ON /OFF		EXTERNAL ON /OFF		EXTERNAL ON /OFF
DEFROSTING		ELECTRICAL	ELECTRICAL		ELECTRICAL		ELECTRICAL
INSULATION TRANSFORMER			PRESENT		PRESENT		PRESENT
STATUS INDICATORS		LED	LED		LED		LED
ALARM SIGNALS		LED	LED		LED		LED
		INPUTS					
COMPRESSOR POWER		ENABLE ONLY	ENABLE ONLY		ENABLE ONLY		ENABLE ONLY
DEFROST		ENABLE ONLY	ENABLE ONLY		ENABLE ONLY		ENABLE ONLY
EVAPORATOR FANS		ENABLE ONLY	ENABLE ONLY		ENABLE ONLY		ENABLE ONLY
OIL DIFFERENTIAL PRESSURE SWITCH			DDESENT.		DDEOENT		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÷300	0 W (3÷4 HP)	3000÷550	0 W (4÷7,5 HP)	5500÷7500 W (7÷10 HP)
CONDENSER FANS	OUTPUT 1	800 W (1PH)	800 W (1PH)	(1PH)	800 W (1PH)	(1PH)	2000 W (3PH) or 1500 W (1PH)
CONDENSER FANS OUTPUT 2 (SEPARATED)			TOTAL	(1PH)	TOTAL	(1PH)	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