

ECP2000 VD CR

ECP1500 VD CR | ECP2000 VD CR
ECP2500 VD CR

A line of power and control panels for refrigeration systems with three-phase compressor up to 25 HP to be linked with an out-of-room control unit (i.e. ECP200 Base4A or EXPERT NANO 4CK). 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.

Examples of out-of-room control units to link

ECP200 EXPERT BASE 4A



EXPERT NANO 4CK



PLUSR 200 EXPERT CR



ECP2000 VD CR

APPLICATIONS

- Control of three-phase ventilated refrigeration systems up to 25 HP, with electrical defrost linked to an out-of-room control unit.

OPTIONS

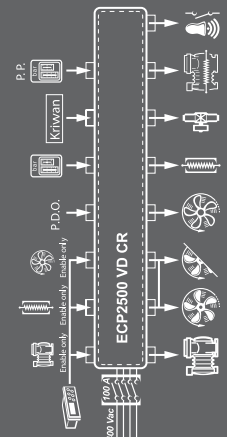
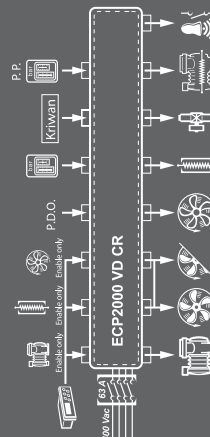
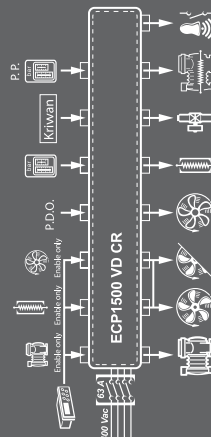
- Compressor shutdown in pump-down mode.
- Datalogger function with external control panel PLUSR200 EXPERT CR for temperatures and alarms recording.

MAIN CHARACTERISTICS

- Direct control of compressor, condenser fans, compressor oil element, defrost elements, evaporator fans, solenoid valve 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.
- System status indicated by LED icon.
- Alarm signal by voltage-free contact.
- Can be controlled by thermostat, thermo-regulator or out-of-room control unit.



CONNECTION DIAGRAMS



THREE-PHASE SYSTEMS WITHOUT ELECTRONICS FOR REMOTE CONTROL



TECHNICAL CHARACTERISTICS		ECP1500 VD CR	ECP2000 VD CR	ECP2500 VD CR
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		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
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
MAIN SWITCH		63 A	63 A	100 A
OVERLOAD PROTECTION		MOTOR CIRCUIT BREAKER	MOTOR CIRCUIT BREAKER	MOTOR CIRCUIT BREAKER
GENERAL PROTECTION		FUSES	FUSES	FUSES
CONTROL	COMPRESSOR	EXTERNAL ON /OFF	EXTERNAL ON /OFF	EXTERNAL ON /OFF
	DEFROST	EXTERNAL ON /OFF	EXTERNAL ON /OFF	EXTERNAL ON /OFF
	FANS	EXTERNAL ON /OFF	EXTERNAL ON /OFF	EXTERNAL ON /OFF
DEFROSTING		ELECTRICAL	ELECTRICAL	ELECTRICAL
INSULATION TRANSFORMER		PRESENT	PRESENT	PRESENT
STATUS INDICATORS		LED	LED	LED
ALARM SIGNALS		LED	LED	LED
INPUTS				
COMPRESSOR		ENABLE ONLY	ENABLE ONLY	ENABLE ONLY
DEFROSTING		ENABLE ONLY	ENABLE ONLY	ENABLE ONLY
EVAPORATOR FANS		ENABLE ONLY	ENABLE ONLY	ENABLE ONLY
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 CONNECTIONS FOR CONDENSER / EVAPORATOR FANS		PRESENT	PRESENT	PRESENT
OUTPUTS				
COMPRESSOR		7500÷11250 W (10÷15 HP)	11250÷15000 W (15÷20 HP)	15000÷18750 W (20÷25 HP)
CONDENSER FANS (SEPARATED)		2x2000 W (3PH) OR 2x1500 W (1PH)	2x2000 W (3PH) OR 2x1500 W (1PH)	2x2000 W (3PH) OR 2x1500 W (1PH)
EVAPORATOR FANS		2x2000 W (3PH)	3x2000 W (3PH)	3x2000 W (3PH)
DEFROSTING HEATERS		16500 W (AC1)	21000 W (AC1)	27000 W (AC1)
SOLENOID VALVE		PRESENT	PRESENT	PRESENT
COMPRESSOR OIL HEATER		PRESENT	PRESENT	PRESENT
ALARM RELAY		PRESENT	PRESENT	PRESENT