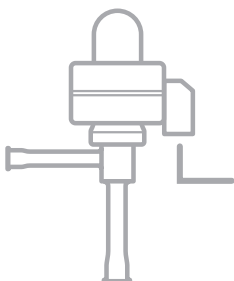


ECP__ BASE STEPPER U VD

ECP16 Base STEPPER U VD | ECP21 Base STEPPER U VD

ECP30 Base STEPPER U VD | ECP42 Base STEPPER U VD

Line of electrical panels, with power and control of the stepper electronic expansion valve (stepper motor), dedicated to the management of the three-phase evaporating unit. The different power ranges and the various options available allow to choose the panel best suited to your system.



APPLICATIONS

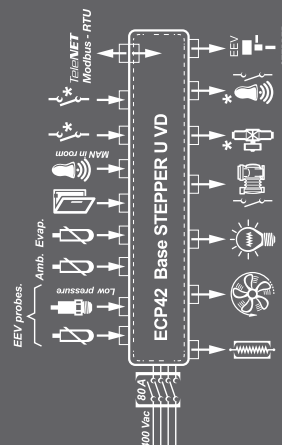
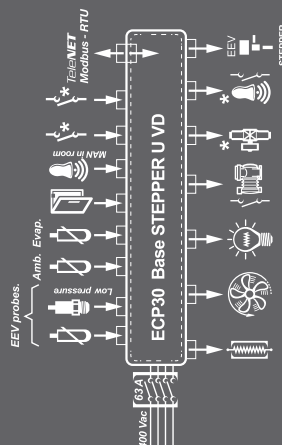
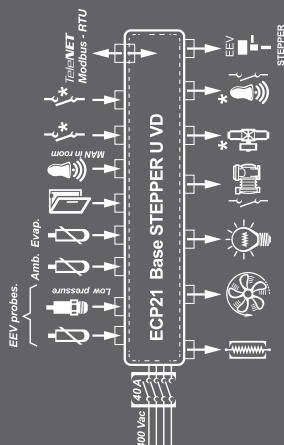
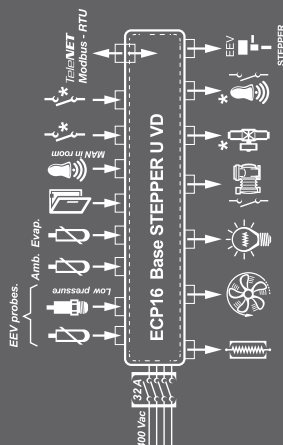
- Control of the evaporating unit, with electrical defrost up to 42 kW.
- Management of the motorized bipolar expansion valve.

MAIN CHARACTERISTICS

- Driver for the motorized electronic valve integrated in the cold room control.
- Single display for complete cold room management
- Connectable to any type of stepper valve on the market.
- Including parameters self-configuration table based on the brand and model of the valve
- Internal USB port for updates with new refrigerant gases

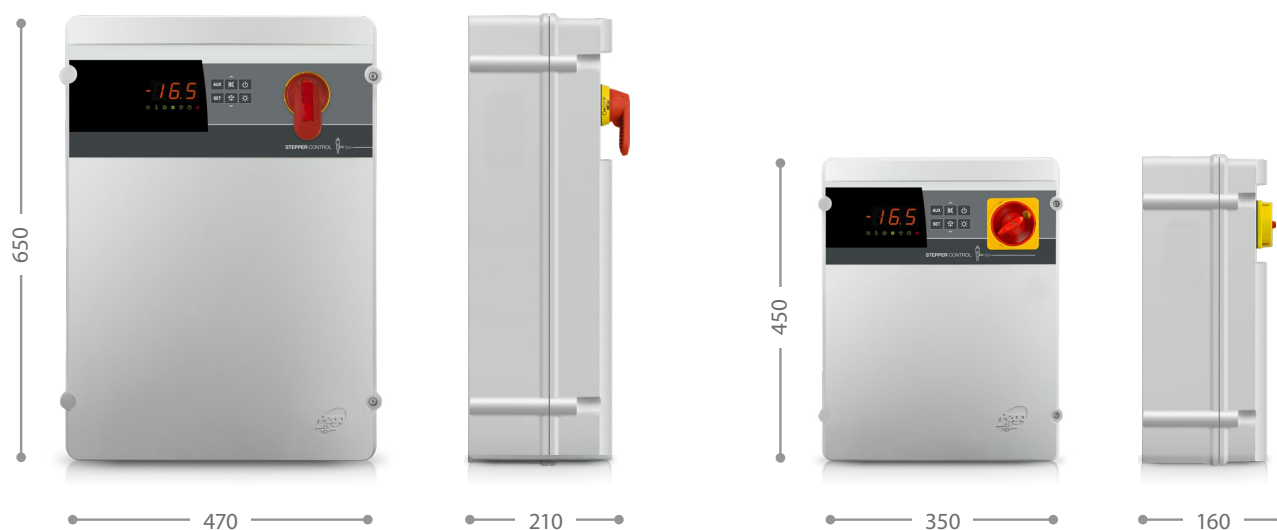
- Protection of the loads and of the auxiliary circuit with circuit breakers.
- Enabling for condensing unit, defrost heaters, evaporator fans, solenoid valve, cold room light and presence of all the electrical protections required by regulations.
- Compact, self-extinguishing abs housing with IP65 protection rating and circuit breaker on the front of the panel.
- Electronic control with large LED display and easy-to-use keyboard.
- LED system status indicators.
- RS485 serial port for connection to the TeleNET industrial supervision network or standard Modbus-RTU protocol.
- Alarm output with voltage-free contact to activate other warning devices such as sirens or telephone dialer.

CONNECTION DIAGRAMS



THREE-PHASE STEPPER UNITS SERIE BASE STEPPER

58 | 59



TECHNICAL CHARACTERISTICS	ECP16 BASE STEPPER U VD	ECP21 BASE STEPPER U VD	ECP30 BASE STEPPER U VD	ECP42 BASE STEPPER U VD
BOX DIMENSIONS	350x450x160 mm	350x450x160 mm	470x650x210 mm	470x650x210 mm
WEIGHT	9 kg	10 kg	19 kg	20 kg
PROTECTION RATING	IP65	IP65	IP65	IP65
POWER SUPPLY	400 V AC $\pm 10\%$ 50-60 Hz			
LOAD TYPE	THREE-PHASE	THREE-PHASE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 \div +40 °C	-5 \div +40 °C	-5 \div +40 °C	-5 \div +40 °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 +99 °C	-45 \div +99 °C	-45 \div +99 °C	-45 \div +99 °C
MAIN SWITCH MAGNETOTHERMIC	4-POLE 32 A	4-POLE 40 A	4-POLE 63 A	4-POLE 80 A
ROOM LIGHT PROTECTION	DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKERS (OPTIONAL)			
CONTROL	PEGO STEPPER	PEGO STEPPER	PEGO STEPPER	PEGO STEPPER
INSULATION TRANSFORMER	PRESENT	PRESENT	PRESENT	PRESENT
STATUS INDICATORS	LED + DISPLAY	LED + DISPLAY	LED + DISPLAY	LED + DISPLAY
ALARM SIGNALS	LED + BUZZER	LED + BUZZER	LED + BUZZER	LED + BUZZER
INPUT				
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
SUCTION PROBE	NTC 10 k Ω	NTC 10 k Ω	NTC 10 k Ω	NTC 10 k Ω
EVAPORATION PRESSURE PROBE (NOT INCLUDED)	4-20 mA	4-20 mA	4-20 mA	4-20 mA
DOOR SWITCH	PRESENT	PRESENT	PRESENT	PRESENT
MAN IN COLD-ROOM ALARM	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE
OUTPUT				
ROOM LIGHT	PRESENT	PRESENT	PRESENT	PRESENT
SOLENOID STEPPER VALVE OUTPUT	BIPOLAR	BIPOLAR	BIPOLAR	BIPOLAR
ENABLE CONDENSING UNIT	PRESENT	PRESENT	PRESENT	PRESENT
DEFROSTING HEATERS	16,5 KW (3 X 5500)	21 KW (3 X 7000)	30 KW (3 X 10000)	42 KW (3 X 14000)
EVAPORATOR FANS	2 X 1500 W	3 X 1500 W	4 X 2500 W	4 X 2500 W
ALARM RELAY	PRESENT	PRESENT	PRESENT	PRESENT
SUPERVISION SYSTEM	TELENET/ MODBUS-RTU			