Il successo del vostro progetto è nell'aria...

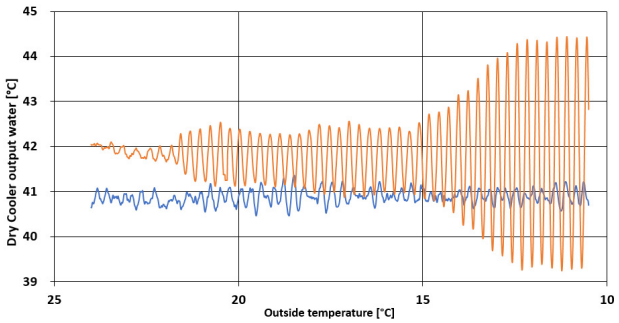
PTec2

Energy saving product

CONTROLLER FOR EC FANS AND INVERTER

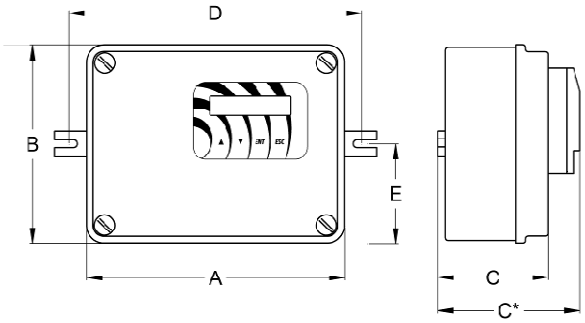
IP55 Version

The PTec2 electronic controller is normally used to control the speed of fans with inverter (EC) into chillers, remote condensers, dry coolers. By activating some algorithms, the result of years of study and field tests, PTec2 increases the stability of the fans unit and indirectly compressor regulation in any climatic condition. PTec2 guarantees precision in reaching the set point, with the compressor operating close to the point of maximum efficiency (COP) and a reduction of the fans energy consumption by up to 20%.



The graph represents the regulation of the water temperature coming out of a dry cooler tested in critical condition and with set point at 41 ° C. In blue the regulation with PTec2, in orange the standard proportional regulation. When lowering outside temperature only the PTec2 keeps a stable regulation.

PTec2 has a double Modbus RTU transmission to connect with a possible remote supervision device and to manage a system of one or more fans. In its most complete configuration it is able to command 2 fan groups on completely independent hydraulic circuits including the activation of spray water or evaporative panels. The keyboard (panel version on request) with lcd display is used to set the parameters values and read the information about the inputs and outputs with a simple, clear and guided software through the following communication languages: English, Italian, Spanish, French, German, Russian (user manuals downloadable from FAE website). PTec2 has some preloaded settings files that make it easy to use and save machine set-up time.



Weight	Dimensions (mm)				Fix. screws mm)			
(kG)	A	B	C	C*	D	E	F	Ø
1,1	200	154	86	115	220	77	/	M4

C* = with polycarbonate operable window.

FAE Fagan Applicazioni Elettroniche Via Manzoni, 10 - 36050 Quinto Vic. Vicenza - Italy
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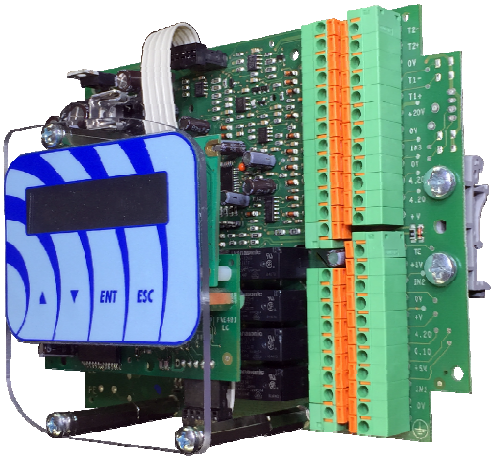
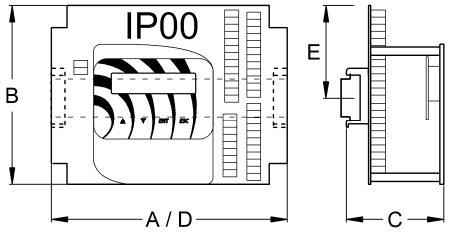
PTec2

Energy saving product

CONTROLLER FOR EC FANS AND INVERTER

IP00 Version





The standard series provide the following characteristics:

- Monophase Power supply 230/400Vac with IP55 grade, or 24Vac/dc with IP00 grade for din rail DIN/EN50022.
- Operating temperature: -30T55°C (-30°C with Oled display, -20°C with lcd display with IP55 grade; storage temperature -40T80°C,
- 2 inputs 4.20mA / 0,5.4,5V / NTC for direct command with pressure sensor/s or temperature NTC sensor,
- Input 4.20mA / 0.10V for command in Slave mode,
- Digital inputs: start/stop, ext. emergency, reduced night speed, anti-ice function, direct/reverse function,
- Input for outdoor NTC sensor to active the stability and efficiency functions,
- 2 outputs 0.10V, for EC fans or inverters command,
- Auxiliary outputs +12V and +5V to supply the sensors
- 4 configurable relays: alarm (over-temperature inside, lost sensor), pressure reached, activation of water spray (with pumping station) / evaporative panels, division of fans into groups, activation of functions with internal weekly clock (optional),
- Slave Modbus RTU transmission,
- Available 1 input 0..10V, 2 outputs 0..10V, 2 digital inputs,
- Standards: EN60730-1, EN61000-6-2, EN61000-6-3.

PTec2 can be request also with:

- Internal clock weekly to control the reduced speed, and for a more precise diagnosis,
- Oled display for a perfect parameters reading/editing also with a very low temperature,
- Door for keyboard protection,
- Master ModbusRTU transmission.

Weight	Dimensions (mm)			Omega Rail (mm)	
(kG)	A	B	C	D	E
0,9	172	130	78	172	54

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