



**SINGLE-PHASE INVERTER FOR PROFESSIONAL
AND INDUSTRIAL ASPIRATION**



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The inverter is the technology that provides the **best energy efficiency** as regards the realization of variable flow systems: it is widely documented that the advantages resulting from the use of inverter are particularly marked in those plants in which it is most varied the operating cycle.

On the other hand the use of the inverters also allows to exploit speed intervals and operation dynamics particularly large, to decrease motor's stress reducing the negative effects caused by acceleration and deceleration transient, to implement protection functions to safeguard the motor and electronics.

The Fasar Elettronica's catalog offers **two distinct models of single-phase inverters** for induction motors, able to cover a wide range of applications related to the aspiration and the treatment of air in the professional and industrial use: the solutions just proposed are technologically advanced because they are characterized by a **sophisticated motor control algorithm**, and they are presented with a simple user interface with an immediate use.

The **possibility to customize the management software** in function of the specific application together with the options integrated on the board (serial communication port RS-485, radio receiver, 0-10 V input to be used for the speed's adjusting as an alternative to the potentiometer) make our inverters ideal for all installations that require flexibility, efficiency and reliability over time.



INVERTER FOR SINGLE-PHASE INDUCTION MOTORS P/N FE1018



FE1018 is a single-phase inverter intended for the control of induction motors that absorb up to **750 W of electrical power**. FE1018 is a device that offers all the **advantages** characteristic of the **inverter technology**: **motor management system** by a **sophisticated control algorithm** (possibly customizable for specific applications), **operation's dynamics** particularly **extensive, high performance and reliability**.

The microprocessor, which is the heart of the inverter, allows to manage *appropriate acceleration and deceleration ramps* and to realize *protection techniques for a possible overload and / or overheating of the active devices*.

Thanks to the large possibility of customization (*communication port RS-485, input 0-10 V, receiver for radiocontrol*), the inverter FE1018 offers the versatility needed to adapt to any type of installation.

INVERTER FOR SINGLE-PHASE INDUCTION MOTORS P/N FE1019



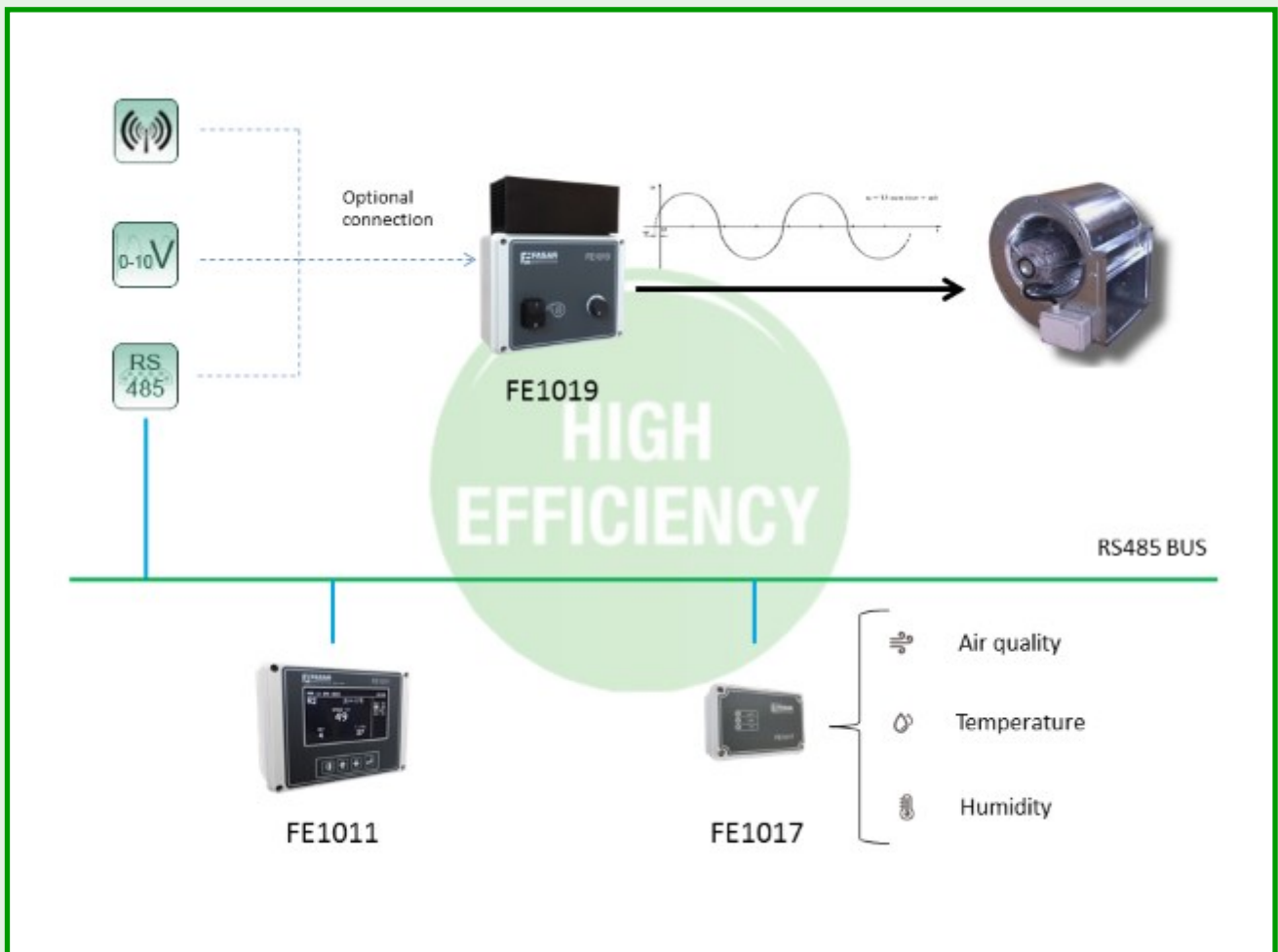
Fasar Elettronica offers the inverter FE1019 for applications requiring **the control of single-phase induction motors absorb up to 1500W electrical power**. **Strong and reliable**, FE1019 is characterized by a **high performance**, which makes it ideal to use in a very wide range of applications inherent the suction and air quality control.

To reduce motor's stresses are performed *acceleration and deceleration ramps* in both phases of *switching on and off*, both *in the transient speed changes*; for the electronic's protection are implemented *suitable algorithms for the management of any phenomena of current overload and overheating*.

Greatest versatility is guaranteed by the different options that can be integrated on board: *serial communication port RS-485* to connect the inverter to a home network operated by an " intelligent" controller, *radio receiver* to make a remote control, *input 0-10 V* - alternatively to the potentiometer - for adjusting the motor's speed (for example through a PLC).

TECHNICAL FEATURES

	FE1018	FE1019
Supply voltage	230Vac -50Hz	230Vac -50Hz
Maximum electric power absorbed by MOTOR	750 W	1500 W
Commands	Bipolar switch and rotary knob	Bipolar switch and rotary knob
Control system with microprocessor	Yes	Yes
Size in mm	200x180x100	200x225x100
Protection fuse	Yes	Yes
RS-485	Optional	Optional
0-10V input signal	Optional	Optional
Radio receiver	Optional	Optional





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