

Single-phase inverter for professional, industrial and medical aspiration

Maximum performance and minimum operating noise

The inverter is the technology that provides the best energy efficiency regarding 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 the operating cycle is most varied.

Our catalog offers several 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, industrial and medical use. The solutions proposed are technologically advanced thanks to a sophisticated motor control algorithm, and a simple user interface of immediate use.

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

Where are the single-phase induction motors of low and medium power used?



Domestic and professional kitchens



Domestic and professional hoods
 Hoods for chemical, biological, pharmacological laboratories
 Fans, suction hoods and extraction fans
 Extractors and suction systems for stoves and fireplaces
 Professional, industrial and medical fans and extractors
 Controlled mechanical ventilation in indoor spaces

Systems for the air change and treatment in civil, professional, industrial and healthcare environments.



Advantages in the use of inverters for single-phase induction motors:

- ☞ Possibility to control the speed efficiently and with wide dynamics: the inverter modulates the motor rotation speed according to the real extraction requirements.
- ☞ Absence of in line phase shift between voltage (V) and current (I): power factor close to 1.
- ☞ Reduction of the wear rate of the mechanical components of the motor: the soft starts e soft stops reduce the stress on the motor and on the mechanical components (absence of starting speed during the start phase). Starting with controlled power consumption.
- ☞ Reliability due to integrated electronic protections (overload, maximum operating temperature).
- ☞ Energy saving thanks to the efficiency of the system, and better performance of the motor. Since the power absorbed by the motor is proportional to the cube of the rotation speed, adjusting the speed (only the one needed and when needed) you will get a significant energy saving: halving the speed of motor rotation, the power used will be one eighth of the full operation power. The efficiency of the inverter is of the order of 98%.



You should take advantage of the INVERTER technology because...

- ... inverters are **SILENT!**
- ... inverters will make your motor **LIVE LONGER!**
- ... inverters will make you **SAVE MONEY!**

Advantages of the inverter technology: low noise, longer engine life, lower consumption