

TECHNICAL DATA SHEET

SMARTAIR:

Inverter smart control.
Maximum efficiency, zero
waste.



SMARTAIR is Iperjet's electronics system dedicated to the advanced management of inverters in industrial extraction systems. It is designed to dynamically regulate fan speed, maintain stable operating pressure, and significantly reduce energy consumption.

With SMARTAIR, the system no longer operates at fixed power, but adapts in real time to actual operating conditions.

MORE EFFICIENCY, LESS ENERGY.

Thanks to continuous duct pressure control,
SMARTAIR:

- automatically adjusts the inverter frequency
- stabilizes airflow
- eliminates fluctuations and oversizing
- reduces electrical consumption by up to 30-40%

The fan uses only the energy actually required, improving the overall efficiency of the system.

KEY FEATURES

INTELLIGENT AUTOMATIC CONTROL

SMARTAIR integrates a differential pressure sensor and communicates with the inverter via RS485 digital protocol. The system compares the measured value with the set point and adjusts the fan speed in real time, ensuring:

- operational stability
- continuous extraction
- reduced mechanical stress
- extended motor lifespan

OPERATING MODE

MANUAL

Direct fan speed setting.

AUTOMATIC

Intelligent adjustment based on the set pressure, with continuous consumption optimization.

SIMPLE AND INTUITIVE INTERFACE

SMARTAIR is equipped with a dedicated graphic display to:

- monitor pressure and inverter frequency
- display operating status
- quickly access alarms
- configure parameters in a simple and guided way

Immediate management, even in complex industrial environments.

INTEGRATION AND INDUSTRY 4.0

SMARTAIR is designed for integration with supervision systems via:

- Modbus RS485
- 4-20 mA / 0-10 V analog signals

Fully compatible with plants focused on digitalization, monitoring, and energy sustainability.

WHY CHOOSE SMARTAIR

- ✓ Real energy consumption reduction
- ✓ Stabilization of suction pressure
- ✓ Protection of the fan and motor
- ✓ Simple and flexible installation
- ✓ Ideal for retrofit or new systems
- ✓ Smart solution for efficient plants

SMARTAIR WITHIN THE IPERJET RANGE

SMARTAIR is the solution dedicated to intelligent inverter management, designed for those who want to:

- improve energy efficiency
- dynamically control ventilation
- take a concrete step toward more sustainable plants

Iperjet technology, serving industrial performance.