

INTELLIGENT CONTROL

Ensures efficient operation and safety of the entire system, as well as continuous monitoring of the compressor's operating parameters.

EASY TO USE

INTUITIVE TOUCH SCREEN INTERFACE

The MS-286 and MS-686 Airpol Power Control units have been designed with a focus on data security and system integrity.

SAFE REMOTE MONITORING

ENERGY-EFFICIENT SOLUTION

SCREW COMPRESSORS

Selection of operating mode, including network operation, with support for up to 4 compressors (MS-286), and up to 6 compressors (MS-686) in the network.

Control of the entire system's parameters.

Modification of the basic compressor operation parameters.

Work scheduling divided into recurring and one-time events (based on the calendar).

Selecting one of four available language versions.

Updating the software through the USB port.

- ✓ A local web server is hosted directly from the controller, with no reliance on cloud services, regardless of Internet availability.
- ✓ There is no need to transmit data outside the local area network (LAN) structure, ensuring full control and data security within the internal infrastructure.
- ✓ This approach significantly reduces the risk of unauthorized access, and cyberattacks.

Variable speed
from 5.5 kW to 315 kW
up to 15 bar

Quick return on investment

Airpol®



www.airpol.com.pl



THE ADVANTAGES OF CHOOSING A VARIABLE SPEED DRIVE (VSD) COMPRESSOR:

- ✓ Smooth speed regulation in the range of approximately 20% to 100%.
- ✓ Matching the compressor capacity to the actual demand for compressed air.
- ✓ The network pressure maintained at a constant level according to the set value on the controller.
- ✓ Reduction of idle running time.
- ✓ Smooth start-up.
- ✓ **UP TO 30% ENERGY SAVINGS**
Compared to compressors with traditional control systems.

VARIABLE SPEED SCREW COMPRESSORS

MANY SOLUTIONS AND APPLICATIONS

- with a compressed air treatment system,
- on a pressure vessel of 500L or 2×70L volume,
- with an oil-water heat exchanger,
- water-cooled,
- with an electric motor of IE3, IE4 or IE5 efficiency class,
- in a design customized to the individual, specific requirements of the application.



AIRPOL PR-SERIES SCREW COMPRESSORS WITH INVERTER



Airpol screw compressors deliver reliable power for pneumatic equipment across industries. Built for efficiency, durability, and continuous 24/7 performance, they keep your operations running without compromise.

RELIABILITY AND DURABILITY

An intelligent controller provides easy operation and meets cybersecurity standards.

The high-quality ASU screw air-end with an optimized rotor profile, designed and manufactured by Airpol, guarantees reliability and high compressor efficiency throughout its entire service life.

An efficient cooling system enables the compressor to operate in ambient temperatures of up to +40°C.

A high-quality electric motor (with IE3, IE4, or IE5 efficiency classes) from reputable European manufacturers ensures reliable and efficient operation of the drive motor and screw air-end assembly.

Effective double oil separation guarantees clean, high-quality compressed air. For sensitive applications, our variable speed screw compressors can be equipped with an integrated air treatment system – including two filters and a refrigeration dryer – delivering air purity class 2.4.2 in line with ISO 8573-1.

Quiet by design – with up to 80% noise absorption and advanced vibration isolation for smooth, silent operation.



An inverter is a guarantee of energy-efficient compressor operation.

A frequency converter (inverter) smoothly changes the supply frequency of the motor connected to it, thereby adjusting its rotational speed.

Variable speed compressors are especially useful in applications where compressed air demand fluctuates. The device adjusts its output capacity to the current demand for compressed air, helping to avoid idle running and reduce electricity consumption.

WE CARE ABOUT THE QUALITY AND ENERGY-EFFICIENCY OF COMPRESSED AIR SYSTEMS

Airpol, as a manufacturer with over 60 years of experience in the compressor industry, has developed optimal solutions that combine the highest quality with low operating costs.

OUR SERVICE WILL TAKE CARE OF YOUR COMPRESSOR

- ✓ Free initial startup
- ✓ Constant access to the original spare parts and consumables.
- ✓ Comprehensive warranty and post-warranty service support.