



Screw Compressor PremiumPower 20 | 20 HP / 15 kW | 1100-2420 l/min

369420-IVR-G3



Product details

EAN	8712418439502
GPSR Airpress	Airpress Polska Sp. z o.o.
Weight	255 kg
Length	1,000 mm (1 m)
Width	670 mm (6.7 dm)
Height	1,195 mm (1.195 m)
SKU	369420-IVR-G3
Drive	Direct driven 1:1
Starter	Inverter
Motor Type	PM
Motor efficiency class	IE5
Air-end	x15-g3
Number of stages	1
Control panel	AirVision One
Available languages	Dutch, Polish, German, French, Spanish, English, Russian
Galvanized tank	No
Cooling air volume (m3/h)	1,400 m³/h (23.333 m³/min)
Duty cycle (run time/downtime %)	100/0
Minimum working pressure (bar)	6 bar
Free air delivery at 8 bar (L/min)	2,420 L/min (40.333 L/s)
Free air delivery at 10 bar (L/min)	2,160 L/min (36 L/s)
Noise level at 0 m (dB(A))	65
Noise level at 4 m (dB(A))	45
Main air connection (")	3/4
Minimum ambient temperature (°C)	5
Maximum ambient temperature (°C)	45
Oilfree	No

Oil capacity (L)	8.1
Current (A)	29.8
Plug type	EURO 63A-5P
Power cable	5 x 10 mm ²
IP classification	IP55
Start-stop timer	No
Autoregulation of idling	No
Motor power (hp / kW)	20 hp / 15 kw
Variable speed (IVR)	Yes
Pump speed (rpm)	1920-3420
Air receiver	No
Dryer	No
Maximum pressure (bar)	10
Minimum free air delivery (L/min)	1,100 L/min (18.333 L/s)
Minimum free air delivery (m ³ /h)	66 m ³ /h (1.1 m ³ /min)
Maximum free air delivery (L/min)	2,420 L/min (40.333 L/s)
Maximum free air delivery (m ³ /h)	145.2 m ³ /h (2.42 m ³ /min)
Voltage (V)	400 V / 50 Hz / 3 Ph

Description

Screw compressor PremiumPower 20 | 20 hp / 15 kw | 1100-2420 L/min

The PremiumPower 20 is a variable-speed screw compressor, designed for high performance and low energy consumption. It is equipped with a high-efficiency screw block, an IE5 ultra-premium class motor, a new-generation inverter and a AirVision One controller. This combination ensures the compressor operates stably and energy-efficiently, whilst allowing for convenient control of the entire compressed air production process. It is an ideal solution for daily operation in demanding industrial environments.

Key technical benefits

High-efficiency next-generation screw module (airend) – designed and manufactured in Europe, guarantees greater airflow with lower energy consumption.

Direct driven 1:1 that directly connects the screw module to the motor – no need for gearboxes, reduction in energy losses and significantly improvement of compressor efficiency.

Ultra Premium IE5 energy class permanent magnet synchronous motor.

European AirVision One controller – monitors the operation in real-time, enabling predictive diagnostics, minimising downtime risks, and simplifying maintenance.

Wide variable-speed range (IVR) thanks to the integration of the screw block with the inverter – the compressor operates at lower speeds when air demand is reduced, saving energy and decreasing mechanical wear by reducing the amount of motor starts.

The variable-speed technology ensures smooth starts that reduce stress, extend service life, and deliver significant energy savings under fluctuating air demand.

Optimised total cost of ownership (TCO), covering purchase cost, energy consumption, consumables, servicing, and downtime costs. This results in reduced interruptions, longer service intervals, and stable performance.

Additional advantages

Optimised energy consumption via the inverter, which automatically adjusts the motor speed to match air demand. This can achieve up to 50% energy savings and reduces total lifecycle costs by appr. 30% over five years.

Quiet operation thanks to the radial fan, maintaining a noise level of AirVision One dB(A) and allowing installation close to the point of use.

Compact design for easy installation in confined spaces.

Smart monitoring with AirVision One

The modern controller AirVision One provides full oversight of the compressor operation (pressure, temperature, load), automatic restart functions, weekly scheduling, and intelligent cooling control. This enhances operational stability and supports energy optimisation.

Main technical benefits

Easy integration with sensors and connected devices (e.g., air treatment, signalling).

Intuitive interface with ergonomic navigation.

Performance graphs and statistics for trend analysis and better optimisation of energy use and servicing.

Built-in web server for remote monitoring and diagnostics without extra modules.

Technical data

GENERAL PARAMETERS

INDIVIDUAL TECHNICAL DATA					
Motor		Free air delivery (FAD) in L/min			
Class	Power	for min. pressure	for 8-bar pressure	for 10-bar pressure	
IE5	20 hp / 15 kw	1100 L/min	2420 L/min	2160 L/min	
Minimum pressure	Maximum pressure	Operating noise	Drive	Pump speed (RPM) at 8 bar	Pump speed (RPM) at 10 bar
6 bar	10 bar	65 dB(A)	Direct driven 1:1	1920-3720	1920-3420

INSTALLATION DATA					
Length	Width	Height	Weight	Connection	Power supply
1000 mm	670 mm	1195 mm	255 kg	3/4"	400 V / 50 Hz / 3 Ph

GENERAL PARAMETERS

INDIVIDUAL TECHNICAL DATA	
Class	IE5
Power	20 hp / 15 kw
for min. pressure	1100 L/min
for 8-bar pressure	2420 L/min
for 10-bar pressure	2160 L/min
Minimum pressure	6 bar
Maximum pressure	10 bar
Operating noise	65 dB(A)
Drive	Direct driven 1:1
Pump speed (RPM) at 8 bar	1920-3720
Pump speed (RPM) at 10 bar	1920-3420

INSTALLATION DATA

Length	1000 mm
Width	670 mm
Height	1195 mm
Weight	255 kg
Connection	3/4"
Power supply	400 V / 50 Hz / 3 Ph

Optional equipment

- Controller Air Vision Touch, which extends the compressor functionality with:
- Electricity consumption measurement system
- Air temperature sensor
- Compressed air flow and consumption sensor
- Automatic condensate drain
- Pressure dew point measurement (PDP)
- Plate heat exchanger
- Oil heater
- Food Grade oil

