

Airpol PR45 screw compressor with frequency converter

Overpressure [MPa]	1.3
Variable capacity:	
Capacity min-max [m ³ /h] [1,3 MPa]	120 - 350
Dimension (LxWxH) [mm]	2000 x 1000 x 1640
Compressed air connection	G 1½
Weight [kg]	1300
Ambient temperature [°C]	+5 ÷ +40
Cooling air demand [m ³ /h]	7000
Compressed air temperature on the outlet [°C]	approx.10 degrees above ambient temperature
Sound level L [dB(A)]	75
Power transmission system	direct drive
Nominal motor power [kW]	45
Nominal fan motor power [kW]	2,2
Motor energy efficiency class	IE3
Motor IP Code	IP55
Feed voltage [V/ph/Hz]	400/3/50
Power feed cable [mm ²]	3x50+PE
Protection fuse [A]	125

Frequency converter:

Provides smooth speed control in the range from 20% to 100% (depending on the pressure set on the controller). Main benefits for the user:

- adjustment of the compressor capacity to the actual compressed air demand;
- reduction of the compressor pressure hysteresis, and thus reduction of pressure variation in the pneumatic network (electric motor rotation is regulated so that to keep the network pressure value on the constant, setlevel),
- minimization of mechanical wear and extending of the components working life;
- energy savings.

Microprocessor controller:

Clear display, information LEDs and straightforward keyboard provide easy and quick working parameters configuration, define compressor operating status, as well as compressor operating mode selection.

