



## Airpol BS PR90

Oil-free two-stage screw compressor with frequency converter

Overpressure [MPa]	0,8 / 1,0
Variable speed	
Min - max capacity [m <sup>3</sup> /h] [ 0,8 MPa ]	410 - 804
Min - max capacity [m <sup>3</sup> /h] [ 1,0 MPa ]	317 - 648
Dimension (LxWxH) [mm]	2800 x 1600 x 2000
Compressed air connection	G 2
Weight [kg]	3370
Ambient temperature [°C]	+5 ÷ +40
Cooling air demand [m <sup>3</sup> /h]	13800
Compressed air temperature on the outlet [°C]	approx.10 - 15 degrees above ambient temperature
Sound level L [dB(A)]	85
Power transmission	direct drive
Nominal motor power [kW]	90
Nominal fan motor power [kW]	4,0
Feed voltage [V]	400
Recommended power feed cable [mm <sup>2</sup> ]	3x95+PE
Protection fuse [A]	200

Frequency converter

Provides smooth speed control in the range from 60% 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 variations in the pneumatic network (electric motor rotations is regulated so that to keep the network pressure value on the constant, set level);
- minimization of mechanical wear and extending of the components working life;
- energy saving.

