

AERO OIL FREE

kW 75 - 90 - 110 - 132 - 160 - 200

bar 7 - 8,5 - 10



Broadbent

 **Air compressors**

ROTARY SCREW
COMPRESSORS



AERO OIL FREE Series

Oil Free direct driven rotary screw compressors

The AERO Oil Free Series is a 100% oil free screw compressors designed to operate in industrial applications requiring no oil presence in their processes:

- Pharmaceutical Industry
- Food and Beverages Industry
- Packaging, PET bottles
- Painting
- Chemical Industry
- Medical and laboratory

The use of advanced technology in design and research, together with unrivalled experience in the fields of thermodynamics and pneumomechanics has produced the AERO Oil Free Series.

The AERO range is one of the most reliable oil free screw compressors available in the market.



TWO STAGE OIL FREE GERMAN MADE AIR END

The two stage OIL FREE air end installed to the AERO Oil Free Series is state of the art oil free technology.

The rotors are manufactured in CNC machining centres, and are coated with a special UltraCoat surface treatment guaranteeing extended operating time and resistance against wear and corrosion.

Anti friction bearings with over dimensioned support radial loads and axial thrusts with an inox steel sealing system on the compressed air chamber coupled with a contact free labyrinth seal on the bearings lubricant side, prevent any possible contamination of the compressed air from the bearings coolant.

ELECTRIC MOTOR

Heavy Duty Asynchronous electric motor European manufacturer, IP 55 protection factor and class F insulation.

WATER COOLED VERSION

The large heat exchanger with a high increased radiating surface designed to minimise pressure drops and to allow for the highest exchange coefficient, the air is cooled by means of a forced circulation of the water obtained by a high prevalence pump.

AIR COOLED VERSION

The air cooled version features an aluminium air cooler, reducing load losses and allowing the high heat exchange coefficient, coupled with a thermostatically controlled IP 54, class F, cooling fan.

DRIVE SYSTEM

The air end is directly driven by the electric motor through a flexible drive coupling and gears, guaranteeing an extremely energy efficient drive system.

TWO STAGE AIR FILTER

Air inlet is purified with a 2 stage air filter, a first stage given by centrifugation process and dust separation and then the cartridge purifying the inlet air up to 99.6% at 2 micron against dust particles passage.



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EPS6 MICROPROCESSOR

An advanced technology controller provides the highest compressor regulations flexibility.

- Display of operating conditions of the main compressor's components
- Modification of the programmed working conditions
- Automatic choice of the on-off or proportional operating time of the compressor, according to the operating conditions, thus reducing energy costs
- Control of the ordinary maintenance program, according to the actual environmental and working conditions, thus making the service safer and less expensive
- Protection of the compressor against lack of phase, incorrect rotation direction, high temperature, high pressure, transducers failure
- Protection of main electric motor overload .

Featuring the sequential working mode connection to up to 6 compressors, equipped with a graphical touch-screen LCD display, allows for remote-control and serial interface connecting to a terminal. Memory storage of alarms allowing a total and complete control of the compressor operativity.



1. Water-Oil cooler
2. Oil filter
3. Water-Air Intercooler
4. Water-Air Aftercooler
5. Starter
6. Highly efficient condensate separator



European made for Australia

AERO OIL FREE Series

Model	Max Pressure		F.A.D.		Power kW	Noise lev. dB(A)	Weight Kg	Dimensions L x W x H (mm)
	barg max	Psig max	m ³ /min	CFM				
AERO Oil Free 75 -7	7	100	13,2	466	75	74	2050	2900x1550x2150
AERO Oil Free 75 -8.5	8.5	125	12,2	431				
AERO Oil Free 75 -10	10	150	10,4	367				
AERO Oil Free 90 -7	7	100	15,9	561	90	75	2200	2900x1550x2150
AERO Oil Free 90 -8.5	8.5	125	14,7	519				
AERO Oil Free 90 -10	10	150	12,5	441				
AERO Oil Free 110 -7	7	100	19,4	685	110	76	3240	3300x2100x2155
AERO Oil Free 110 -8.5	8.5	125	18,0	635				
AERO Oil Free 110 -10	10	150	15,3	540				
AERO Oil Free 132 -7	7	100	22,8	805	132	76	3300	3300x2100x2155
AERO Oil Free 132 -8.5	8.5	125	21,4	756				
AERO Oil Free 132 -10	10	150	18,8	664				
AERO Oil Free 160 -7	7	100	28,5	1006	160	78	3500	3300x2100x2155
AERO Oil Free 160 -8.5	8.5	125	26,7	943				
AERO Oil Free 160 -10	10	150	23,5	830				
AERO Oil Free 200 -7	7	100	36.3	1282	200	80	4200	3300x2100x2155
AERO Oil Free 200 -8.5	8.5	125	33.1	1169				
AERO Oil Free 200 -10	10	150	30.0	1059				

The air flow rates have been measured at the following working pressures:
6,5 bar for mod. 7 bar - 8 bar for mod. 8,5 bar - 9,5 bar for mod. 10 bar

The data and performances were recorded in accordance with standard ISO 1217. The sound level was measured in accordance with PNEUROP/CAGI standards.

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