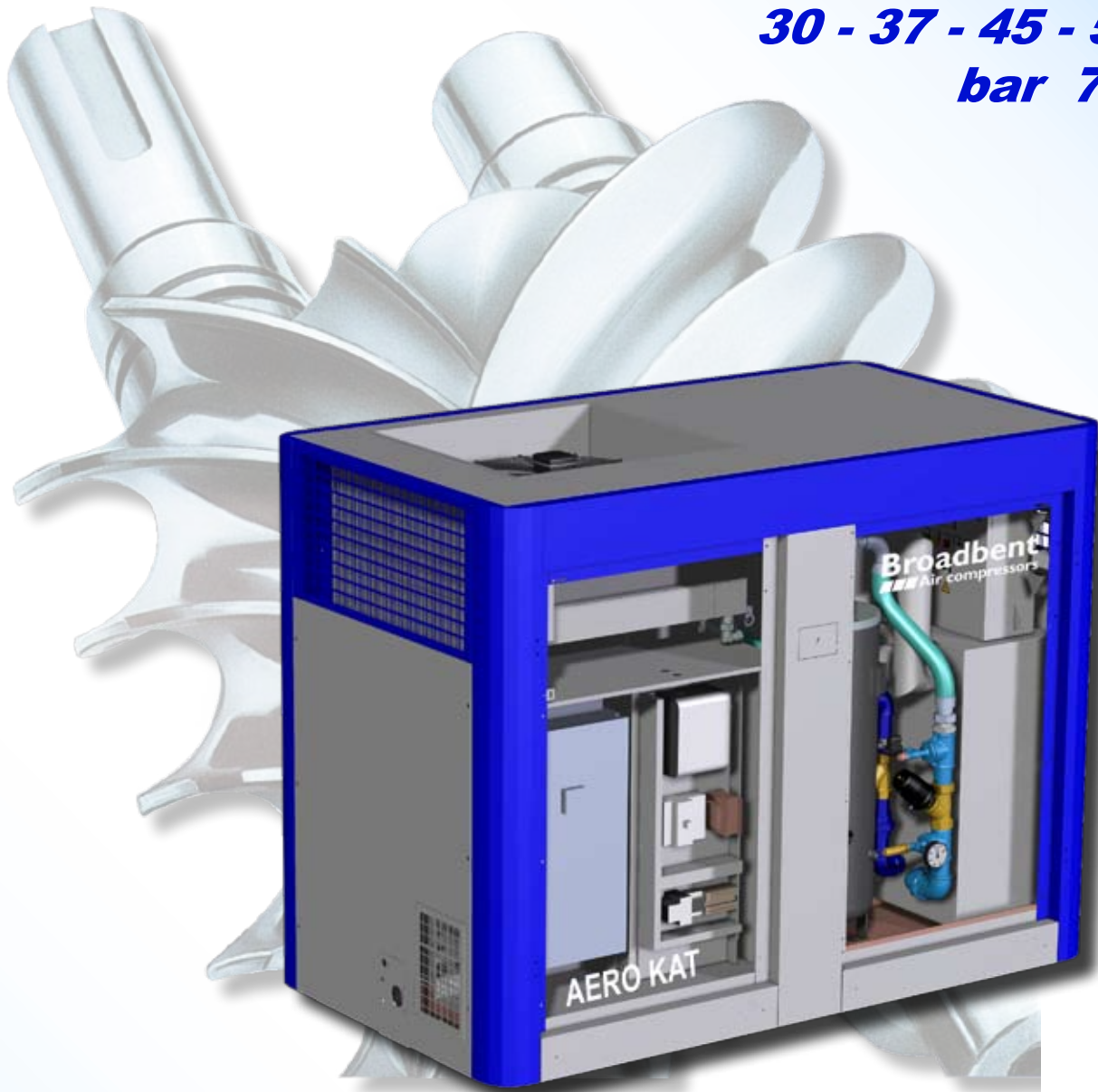


AERO KAT OIL FREE

kW 9 - 15 - 18,5 - 22

30 - 37 - 45 - 55 - 75

bar 7,5 - 10



Broadbent

 **Air compressors**

ROTARY SCREW
COMPRESSORS



AERO KAT OIL FREE Series

catalytic conversion oil free direct driven rotary screw compressors

The AERO KAT Oil free Series is a range of Oil Free Rotary Screw Compressors complying to Class 1 Classification (ISO 8573-1 : meaning the maximum oil residue must not be over 0.01 mg per cubic meter of compressed air, including oil vapours).

The AERO KAT Oil Free range supplies oil free compressed air with oil residue to <0.003 mg per cubic meter of compressed air.

The compressor is designed to operate where oil is not permitted: Medical, Beverage production, Food, Biotechnologies, Pharmaceuticals, Electronics and Painting industries



Catalytic Converter



AIR and CONDENSATE QUALITY MEASURING

The compressed air coming from the air/oil separator goes in contact with the porous granulate inside the converter, and after a series of different stages of:

- processing of the oil inside the porous granulate
- adsorption
- surface reaction
- de-adsorption of the resulting products (H₂O and CO₂)

The lubricant molecules are totally divided and treated until completely reduced into water vapour.

The resulting oil free compressed air can be utilized without restrictions in all applications requiring oil-free Class 1 air, and the resulting oil free condensate can be discharged directly into the sewage system without any additional treating

CATALYTIC CONVERTOR

The German made Catalytic Converter, allows through a simple chemical reaction a catalytic conversion of all the hydrocarbons (oil) contained in the compressed air into water vapour (H₂O) and carbon dioxide (CO₂).

The catalytic conversion is proven technology, guaranteed and operated over many years of field applications. The catalytic converter is intergrated into the high efficiency, lubricated direct driven rotary screw compressors, to give end users a range of very compact, totally reliable, and extremely competitive priced oil free compressors, with no equals in the market thus far, both in terms of technology application and of economy.

IMPORTANT ADVANTAGES TO CHOOSE AN AERO KAT Oil Free Compressor

- 1) Guaranteed deoiled compressed air with oil residue <0.003 mg
- 2) Absolute process reliability controlled by the temperatures
- 3) Extremely reduced running costs
- 4) Higher efficiency of the compression process
- 5) Deoiled condensate
- 6) Reduced and easy maintenance interventions, lower running costs
- 7) Operation independent from environment temperature, of inlet air temperature, of the oil concentration and relative humidity
- 8) Partial load without restrictions
- 9) Granulate duration approximately 25,000 working hours
- 10) No air pre-filtration necessary
- 11) Compact design
- 12) Lower initial investment
- 13) Suitability for applications (Pharmaceutical, Food and Beverage, Chemical, and Medical)



AERO KAT OIL FREE Series

catalytic conversion oil free direct driven rotary screw compressors



AIR END

German built isometric air end
Quality components
Prolonged operating life
High output

HIGH EFFICIENCY MOTOR

High efficiency asynchronous
motor IP 55, Class F
Low service factor on the main
drive motor

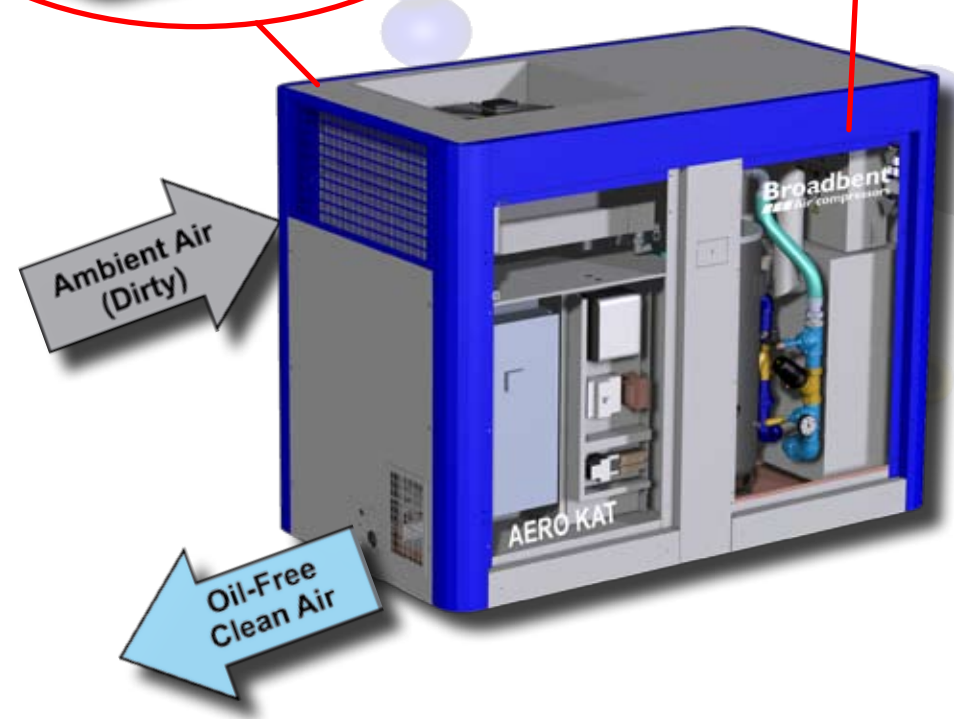
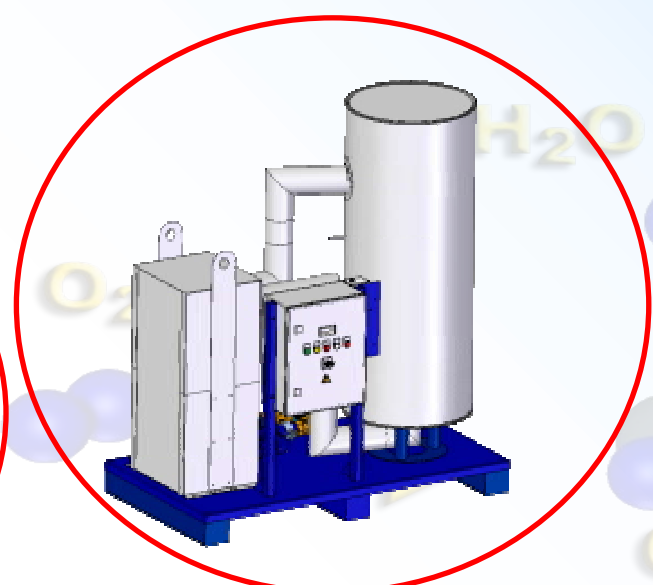
EPS 4.3 CONTROLLER

Operator friendly controller
Simple display
Canbus control for up to 6 units
Auto start and remote functions
Fault diagnostic panel
Programmable maintenance



HIGH EFFICIENCY DRIVE SYSTEM

The air end is directly driven by the electric
motor by means of a flexible coupling and a
couple of helical gears. Transmission power
efficiency up to 99,9%
IP 65 protection factor box



AERO KAT OIL FREE Series

Model	Max Pressure		F.A.D.		Power		Noise lev. dB(A)	Weight Kg	Dimensions L x W x H (mm)
	bar max	Psig max	[m ³ /min]	[CFM]	Comp. [kW-Hp]	Cat. [kW]			
AERO KAT 1509 - 7,5	7,5	109	1,65	58	9 - 12	1,6	64	555	1386x750x1092
AERO KAT 1509 - 10	10	145	1,53	54					
AERO KAT 1515 - 7,5	7,5	109	2,11	74,5	15 - 20	1,6	65	565	
AERO KAT 1515 - 10	10	145	1,92	68					
AERO KAT 2018 - 7,5	7,5	109	2,92	103	18,5 - 25	2,1	69	820	1400x800x1500
AERO KAT 2018 - 10	10	145	2,60	92					
AERO KAT 2022 - 7,5	7,5	115	3,60	127	22 - 30	2,1	69	830	
AERO KAT 2022 - 10	10	145	3,10	109,5					
AERO KAT 3130 - 7,5	7,5	109	4,80	169,5	30 - 40	3	69	1050	1804x1100x1772
AERO KAT 3130 - 10	10	145	4,30	152					
AERO KAT 3137 - 7,5	7,5	109	5,80	205	37 - 50	3	69	1115	
AERO KAT 3137 - 10	10	145	5,25	185,4					
AERO KAT 4045 - 7,5	7,5	109	7,80	275	45 - 60	3	73	1765	2380x1300x1780
AERO KAT 4045 - 10	10	145	6,30	222					
AERO KAT 4055 - 7,5	7,5	109	9,80	345	55 - 75	6,5	73	2075	
AERO KAT 4055 - 10	10	145	8,20	289					
AERO KAT 4075 - 7,5	7,5	109	12,6	444	75 - 100	6,5	73	2275	
AERO KAT 4075 - 10	10	145	10,5	370					

All compressors are available with 13 bar equipment on request; contact PowerSystem for further information.

The air flow rates have been measured at the following working pressures:

7 bar for mod. 7,5 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 PNEURO/CAGI standards.

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Broadbent
Air compressors