BAVARIA
KOMPRESSOREN

Technical data

BAVARIA PURE POWER

The industrial compressor for maximum performance and reliability

made in BAVARIA

► Technical data	PURE POWER
Speed / delivery capacity / filling time Filling time is calculated from the time required to fill a 10 litre breathing apparatus from 0 to 200 bar. The calculation is based on an ambient air pressure of approx. 1013 mbar.	PURE POWER 450 1,250 rpm = 450 litres/min. 27.0 m³/h, 15.89 c.f.m., 4min, 30 sec. PURE POWER 550 1,150 rpm =550litres/min. 550 L/min. 33.0 m³/h, 19.42 c.f.m. 3 min. 40 sec.
Suction pressure, operating pressure	Atmospheric (0.5-1.2 bar), 90 to 350 bar, 420 bar at extra charge
Set pressure final pressure safety valve (can be lifted)	Set value according to order, max. 420 bar with type certificate
Number of cylinders	4 stages
Intermediate pressure safety valves	For each compressor stage
Direction of rotation	Anti-clockwise
Cooling, cooling air requirement	Air cooling, approx. 3200-5400 m³ h
Lubrication	Maintenance-free low-pressure oil pump
Compressor block oil quantity, oil type	4.9 litre special synthetic oil with breathing air approval and safety data sheet
Max. permissible ambient temperature	+5°C.- +45°C (+43°F...+113°F)
Motor: Three-phase squirrel cage motor, 3 phases, protection class IP55, 2,850 rpm, 400 V-415V, 50/60 Hz	PURE POWER 450, 7.5kW/400V/50Hz; PURE POWER 550, 9 kW/400V/50Hz;
Compressor frame welded steel, compressor frame with vibration dampers, compressor and drive extra decoupled	Powder-coated RAL 9007 aluminium silver + RAL 9005 black using oscillating elements 55 x 50 mm
Compressor dimensions: L x W x H, weight, noise from a distance of 1.5 m	1150 x 600 x 800 mm, approx. 260-280 kg, 84dbA, approx. 260kg
Intake air filter	Micronic Superfine
Pressure indicators 1 pressure gauge and several sensors, shown on display	Precision pressure gauge filled with glycerine "CLASS 1.6"
Control system	Star delta soft start, start-stop button, main switch and emergency stop button
Automatic condensate drain with 3 condensate separators and silencer	every 15 to 20 minutes + collection tank 5 litres
Compressor final pressure switch-off and pressure relief,	automatic
Pressure retention valve, non-return valve, final pressure safety valve	120 bar, 2 non-return valves, 1 final pressure safety valve with type certificate - can be vented

Model Operating pressure	Drive motor	Delivery quantity	Stages	rpm	motor		Dryer system	Dimensions (cm)			Net weight
350 bar-420 bar	Flow rate	l/min		rpm	kW	HP	Stand alone	L	B	H	kg
TVCP 450 350 bar	400V 50/60 Hz	450	4	1.250	7,5	10	FT 410 50x25x65	115	60	80	260
TVCP 550 350 bar	400V 50/60 Hz	550	4	1.150	9	12	FT 810 50x25x65	115	60	80	265

Equipment details - Technical data	450	550
200 or 300 bar version. (optional 420 bar)	●	●
1 main air outlet for connecting an external filling ramp or storage unit	●	●
AIRSAVE PRO E Monitoring the saturation of the dryer cartridges		
Activated carbon adsorber to remove all oil vapours and hydrocarbons for Aisave Oil Control		
FT 410 dryer system, other larger dryer systems optionally available	●	
Dryer system FT 810 Airsave= 2200 m³@ 20°C,		●
Oil pressure monitoring		
Oil level control	●	●
Interstage pressure analogue with pressure gauges for 1st - 2nd and 3rd stage		
Automatic condensate drain	●	●
30 litre collection container with level monitoring and silencer		
Automatic flushing of accumulated CO_2 from the dryer housing when the compressor starts		
AIRSCRUBBER reduces the CO^2 concentration in the intake air to up to - 800 litres/min.		
Air Hepa filter at 300 bar outlet with fine dust separation down to 1 µ		

● standard | " optionally available | X not possible,

* only in conjunction with HMI TCC

Subject to technical changes. Illustrations may contain optional extras.

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IDE-COMPRESSORS e.K.
D-83098 Brannenburg