



World leaders in diving equipment technology

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Bauer Poseidon VE / VSE Range Compressor

The VE range excels through its excellent capacity rates of up to 680 l/min. The effective noise reduction of the super silent version allows its use in noise-sensitive environments.

Automatic Operation

Highest operational safety is achieved by equipping the units with a robust and easy-to-use control in combination with an automatic condensate drain.

- An automatic start/stop device controls the independent switching on/off of the compressor.
- For maximum convenience, condensate from all interstage separators and the final separator is automatically removed by the automatic condensate drain during operation as well as during switching on and off the compressor unit.
- An indicator lamp signals low oil pressure and warns immediately should the compressor block rotate in the wrong direction.
- Hour counter for reading off the pending maintenance and service intervals.

Robust Compressor Block

Maximum efficiency due to heavy duty compressor blocks meant for continuous operation.

- Low thermal load on the 4-and 5-stage compressors guarantees maximum life time of the unit, even under the harshest ambient conditions.
- Tempered cylinders with special plateau honing as well as wear and tear-free high-tech polymer piston rings in the final stage minimize oil consumption and wear off.
- Robust low pressure oil pump with oil filter for extended life time and oil change intervals.

- Indestructible industrial roller bearings suitable for continuous operation during 30,000 operating hours and more.
- Corrosion resistant intermediate and final coolers made of stainless steel.

Noise Reduction (optional)

For use in particularly noise-sensitive environments.

- Super silent operation with less than 70 dB(A)* due to high absorbent special insulation materials in and efficient noise reducing construction of the "super silent" cabinet.

* (+/- 2 dB(A), measured at the distance of 1 metre)

Pure Breathing Air through the Bauer P-System

For a reliable supply with breathing air, with higher purity than required by the strict breathing air standards DIN EN 12021.

- Our genuine cartridges safely remove humidity and pollutants from the compressed air.
- The filter housings made of special alloys are designed for pressures up to 500 bar and for thousands of load cycles. Fastidious all-embracing production monitoring from the raw material up to the finished vessel guarantees highest safety.

Securus Provides Safety (optional)

The patented filter monitoring system continuously controls the saturation of the filter cartridge.

- Automatic shut-down of the unit after warning for upcoming filter saturation, provides compliance with the directives of the EN 12021 breathing air standards.
- Securus assures economical plant operation, thanks to a sophisticated sensor techniques, the filter cartridge can be used until its complete saturation.

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- In contradiction to others, the integrated monitoring sensor does not have to be calibrated. This provides safety in continuous operation and saves costs.

Equipment Variants

Options	225/330 Bar Range			420 Bar Range		
Model	PE 320	PE 500	PE 680	PE 320	PE 500	PE 600
Noise level						
Noise Reduction	Optional	Optional	Optional	Optional	Optional	Optional
Automation options						
Compressor Control	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply
Start/Stop	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply
Automatic Condensate Drain	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply	Standard scope of supply
Air Preparation Options						
Purification System P41	Standard scope of supply	Standard scope of supply	-	Standard scope of supply	Standard scope of supply	-
Purification System P61	-	-	Standard scope of supply	-	-	Standard scope of supply
Securus	Optional	Optional	Optional	Optional	Optional	Optional
Air distribution options						
Filling Panel With Hose Connections	Optional	Optional	Optional	Optional	Optional	Optional
Filling Panel With Direct Connections 225 and 330 bar (simultaneously)	Optional	Optional	Optional	Optional	Optional	Optional

200 / 300 Bar Version

Model	PE 320-VE silent	PE 500-VE silent	PE 680-VE silent	PE 320-VE	PE 500-VE	PE 680-VE
Number of stages	4	4	4	4	4	4
FAD l/min ¹⁾	320	500	680	320	500	680
RPM min ⁻¹	1450	1170	1400	1450	1170	1400
Filling rate min ¹⁾	0,63	0,40	0,29	0,63	0,40	0,29
Drive kW	7,5	11	15	7,5	11	15
Drive HP	10	15	20	10	15	20
Purification system P-range	P41	P41	P61	P41	P41	P61
Dimensions (approx cm)						
L x W x H	148 x 83 x 152	148 x 83 x 152	148 x 83 x 152	114 x 83 x 152	114 x 83 x 152	114 x 83 x 152
Weight net. (approx kg)	400	455	455	305	345	360
Order Code	PE 320-VE silent	PE 500-VE silent	PE 680-VE silent	PE 320-VE	PE 500-VE	PE 680-VE

1) Cylinder filling from 0 to 200 bar. Filling rate for 1l cylinder capacity from 0 to 200 bar.

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