

## THE NEW POSEIDON EDITION

Pure Power, best price

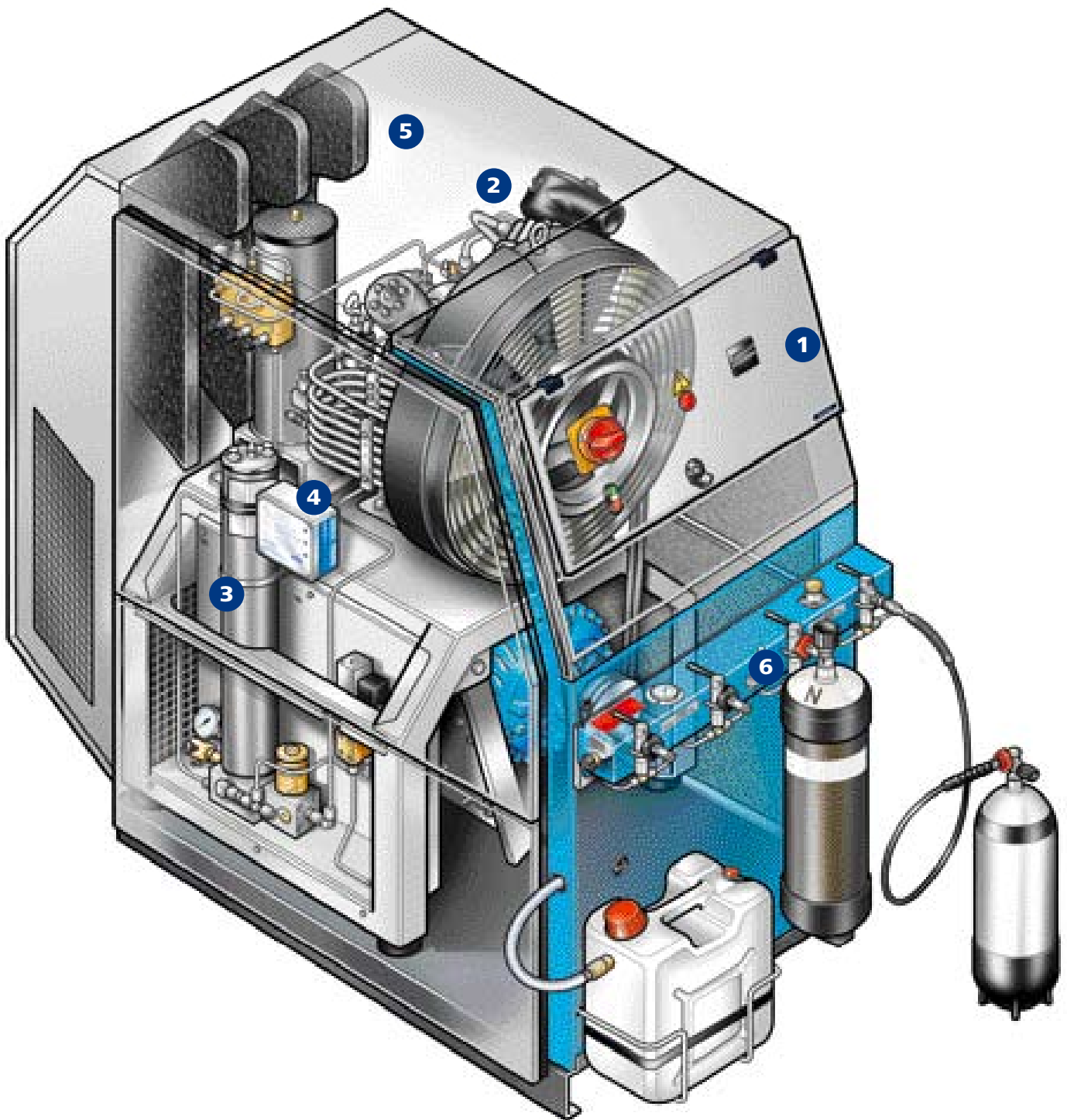


- › 320 / 500 / 680 l/min
- › 225 / 330 / 420 bar
  
- › FULFILLS THE REQUIREMENT FOR LARGE QUANTITIES OF BREATHING AIR
- › OPEN OR SUPER SILENT
- › EASY OPERATION DUE TO CONVENTIONAL COMPRESSOR CONTROL
- › ELECTRONIC FILTER SATURATION CONTROL AS A STANDARD



**The custom tailored concept for a safe breathing air supply for big diving centers.**

High capacities and the legendary reliability of BAUER guarantee a safe and rapid breathing air supply round the clock. The sophisticated noise abating cabinet assures super silent operation (VERTICUS range). The patented P-filter system guarantees the supply of compressed breathing air acc. to EN 12021 breathing air standard.



**1** CONTROL

**2** COMPRESSOR BLOCK

**3** P-FILTER SYSTEM

**4** SECURUS FILTER MONITORING

**5** NOISE REDUCTION

**6** FILLING PANEL

## The convincing features

### 1 CONTROL

Accurate and safe operation due to the robust and easy to use hard-wired compressor control with conventional star-delta switch.

- › Automatic start-up/stop device for automatic on / off mode.
- › Oil pressure control with pilot light.
- › Running hour counter as well as pulse generator and cycle counter for the automatic condensate drain device

### 2 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 & 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 suited for continuous operation during 30,000 operating hours and more.
- › Corrosion resistant intermediate and final coolers made of stainless steel.



4-stage high pressure compressor block K150

### 3 P-FILTER SYSTEM

The patented P-filter system guarantees the supply of compressed breathing air acc. to EN 12021 and offers long filter cartridge life time..

- › The new oil and water separator has been integrated into the bottom of the filter housing, together with the final pressure safety valve for 225/330 bar
- › The automatic condensate drain device drains condensate from all intermediate separators and final separator during operation and shut-down of the unit and is opened for unloaded start-up, too.



### 4 SECURUS

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, guarantees compliance with the directives of the EN 12021 breathing air standard.
- › High efficiency due to optimum use of the filter cartridge.
- › In contradiction to others, the integrated monitoring sensor system does not have to be calibrated.

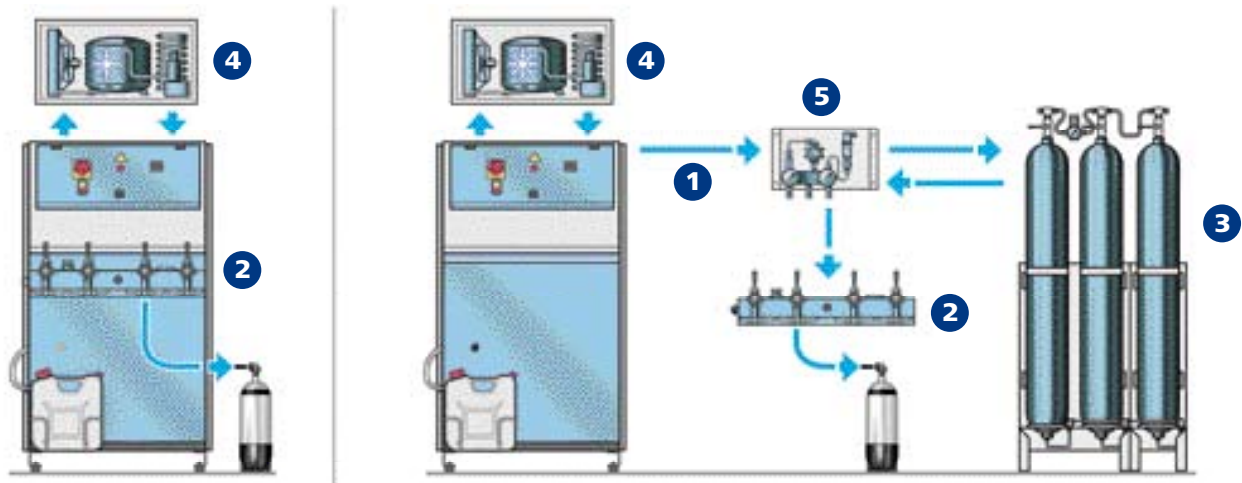
### 5 NOISE REDUCTION

For use in particularly noise-sensitive environments (VERTICUS range).

- › Super silent operation with less than 68 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 meter )

## Features and options at a glance



- 1** Connection for external filling panel(s) and storage bank(s).
- 2** Filling panel(s) for mounting on the compressor or for external mounting.  
Available as 200 bar or 300 bar version or with pressure reducer 200 + 300 bar on choice.
- 3** Storage bank(s).
- 4** AIR-KOOL refrigeration dryer for increased filter cartridge life time
- 5** Automatic selector unit for quick automatic filling from an intermediate buffer.

## Technical data

Model	Number of stages	F.A.D	R.P.M	Filling rate	Drive		Filter system	Dimensions (app. cm)			Weight net.
					kW	HP		L	W	H	
<b>max. 420 bar</b>		<b>l/min<sup>1)</sup></b>	<b>min<sup>-1</sup></b>	<b>min<sup>-2)</sup></b>			<b>P-Range</b>				
<b>200 / 300 bar, Super Silent (VSE-Range) and VE-Range without filling panel</b>											
PE 320-VSE	4	320	1450	0,63 (0,94)	7,5	10	P41	148	83	152	400
PE 500-VSE	4	500	1170	0,49 (0,60)	11	15	P41				455
PE-680-VSE	4	680	1400	0,29 (0,44)	15	20	P61				455
PE 320-VE	4	320	1450	0,63 (0,94)	7,5	10	P41	114	83	152	305
PE 500-VE	4	500	1170	0,49 (0,60)	11	15	P41				345
PE-680-VE	4	680	1400	0,29 (0,44)	15	20	P61				360
<b>420 bar, Super Silent (VSE-Range) and VE-Range without filling panel</b>											
PE 320-VSE-420	4	320	1450	0,63	7,5	10	P41	148	83	152	305
PE 500-VSE-420	4	500	1170	0,40	11	15	P41				355
PE-680-VSE-420	5	600	1400	0,33	15	20	P61				370
PE 320-VE-420	4	320	1450	0,63	7,5	10	P41	114	83	152	395
PE 500-VE-420	4	500	1170	0,40	11	15	P41				450
PE-680-VE-420	5	600	1400	0,29	15	20	P61				460

1) Cylinder filling from 0 to 200bar

2) Filling rate for 1 cylinder capacity from 0 to 200 bar (300 bar).