

## THE VERTICUS RANGE

Professional filling centers  
with high performance

- › **260 – 680 l/min**
- › **225 / 330 / 420 bar**
  
- › FULFILLS THE REQUIREMENT FOR LARGE QUANTITIES OF BREATHING AIR
- › OPEN OR SUPER SILENT
- › B-CONTROL
- › ELECTRONIC FILTER SATURATION CONTROL (OPTION)



### **The customized concept for a safe breathing air supply for big diving centers.**

High capacities and the legendary reliability of BAUER enable a safe and fast breathing air supply round the clock. The sophisticated noise abating cabinet assures exceptional silent operation.

The P-purification system developed by BAUER ensures the supply of compressed breathing air according to DIN EN 12021<sup>1</sup> breathing air standard.

<sup>1</sup> Assuming proper maintenance and installation of the systems in accordance with operating instructions/operating manuals, and using the BAUER AERO-GUARD in cases where intake air CO<sub>2</sub> concentration exceeds the levels required by the applicable breathing air standard.



## The top range of BAUER - powerful and expandable

The modular system of the VERTICUS-Range allows a customized compressor unit according to individual requirements and guarantees a simple upgrading such as larger or additional filter housings, B-SECURUS filter monitoring, external filling panels, storage systems and others.

### The VERTICUS range

Also for use in particularly noise-sensitive environments.

- › Super silent operation with less than 68 dB(A)<sup>1</sup> due to high absorbent special insulation materials in an efficient noise reducing construction of the "super silent" cabinet.
- › Comfortable monitoring and control of all compressor performances via B-CONTROL MICRO.
- › The sophisticated P 61 purification system from BAUER provides pure breathing air according to the strict breathing air standard DIN EN 12021<sup>2</sup>.

<sup>1</sup> (+/- 2 dB(A), measured at the distance of 1 meter from the unit)

<sup>2</sup> Assuming proper maintenance and installation of the systems in accordance with operating instructions/operating manuals, and using the BAUER AERO-GUARD in cases where intake air CO<sub>2</sub> concentration exceeds the levels required by the applicable breathing air standard.



*VERTICUS open version*



*Super Silent version*

## The convincing features

### THE COMPRESSOR BLOCK - HEART OF THE UNIT

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

- › Low thermal load on the 4-and 5-stage compressors ensures a long life time of the unit, even under the harshest ambient conditions.
- › Robust low pressure oil pump with oil filter for extended life time and oil change intervals.
- › Extremely robust industrial roller bearings suited for continuous operation during 30,000 operating hours and more.
- › Intermediate and final coolers made of stainless steel resistant to corrosion influence.



4-stage high pressure compressor block K 150

### PURE SAFETY THROUGH THE BAUER P-SYSTEM

The P-purification system ensures the supply of compressed breathing air according to DIN EN 12021<sup>1</sup> and offers long filter cartridge life time.

- › The filter housings made of high-duty special alloy are designed for continuous use.
- › 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.
- › Version with load reducing starting device for the compressor.

### B-CONTROL - FOR COMFORTABLE UNIT OPERATION

B-CONTROL MICRO allows a fully automatic operation of the unit.

- › Easy and intuitive operation owing to the use of self-explanatory symbols.
- › Fully automatic monitoring of all relevant compressor data and maintenance management.
- › Star delta starting from 4 kW on.



B-CONTROL MICRO compressor control

### The optional compressor control B-CONTROL II has been conceived for demanding applications.

- › Possibility of monitoring pressure and temperature of all stages, current BUS interfaces and customer specific software adaptations.
- › B-MESSENGER for remote data transmission and compressor monitoring.
- › Interconnected operation and much more.

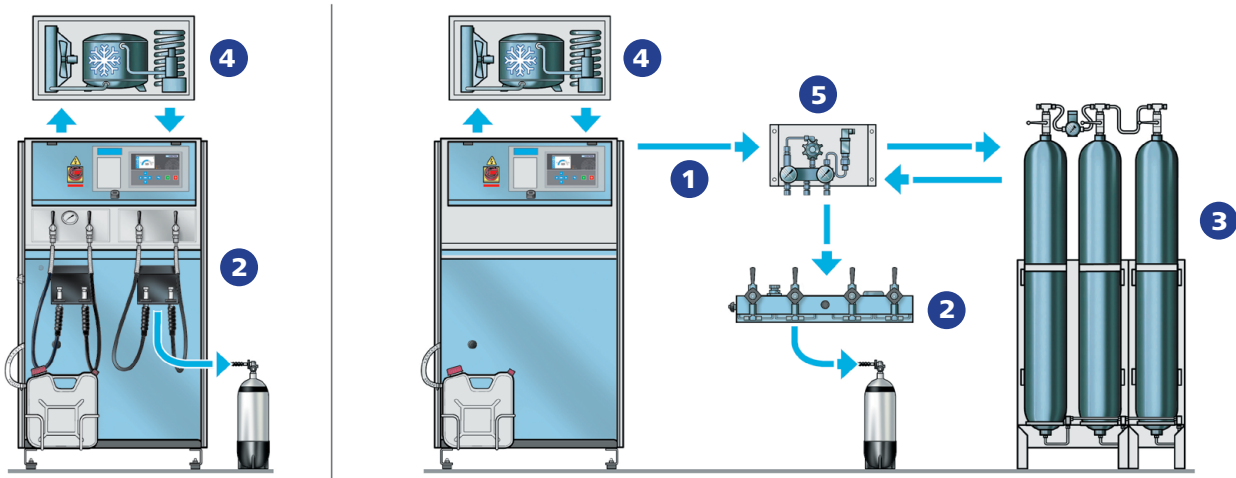
### B-SECURUS - THE BODYGUARD OF YOUR PURIFICATION SYSTEM

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

- › Automatic shut-down of the unit after warning for upcoming filter saturation, ensures compliance with the directives of the DIN EN 12021<sup>1</sup> 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.

<sup>1</sup>Assuming proper maintenance and installation of the systems in accordance with operating instructions/operating manuals, and using the BAUER AERO-GUARD in cases where intake air CO<sub>2</sub> concentration exceeds the levels required by the applicable breathing air standard.

## 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** B-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	Charging rate	R.P.M	Filling rate	Drive		Filter system	Dimensions (approx. cm)			Weigt net.
					kW	HP		L	W	H	
max. 330 bar <sup>1</sup>		l/min <sup>2</sup>	min <sup>-1</sup>	min <sup>3</sup>			P-Range				
<b>VERTICUS 5-Range</b>											
V 12.14-5.5-5 <sup>4</sup>	4	260	1185	0,8	5,5	7,5	P 61	114/ 148 <sup>6</sup>	83	152	305/395 <sup>6</sup>
V 12.14-7.5-5 <sup>4</sup>	4	320	1470	0,6	7,5	10					310/400 <sup>6</sup>
V 15.1-7.5-5	4	370	1050	0,5	7,5	10	or				340/430 <sup>6</sup>
V 15.1-11-5	4	450	1320	0,4	11	15	P 81 <sup>5</sup>				350/440 <sup>6</sup>
V 150-11-5	4	540	1230	0,4	11	15		350/440 <sup>6</sup>			
V 180-15-5	4	680	1400	0,3	15	20		365/455 <sup>6</sup>			

<sup>1</sup> also available with switch over device PN 200/300

<sup>2</sup> Cylinder filling from 0 to 200 bar

<sup>3</sup> Filling rate for 1l cylinder capacity from 0 to 200 bar

<sup>4</sup> Also available as 420 bar version

<sup>5</sup> Option

<sup>6</sup> Super-Silent version