

## MINI - VERTICUS III

The Super-Silent Complete Station

- › 150 – 250 l/min
- › 225 / 330 bar
  
- › SILENT HOUSING
- › COMPACT AND POWERFUL

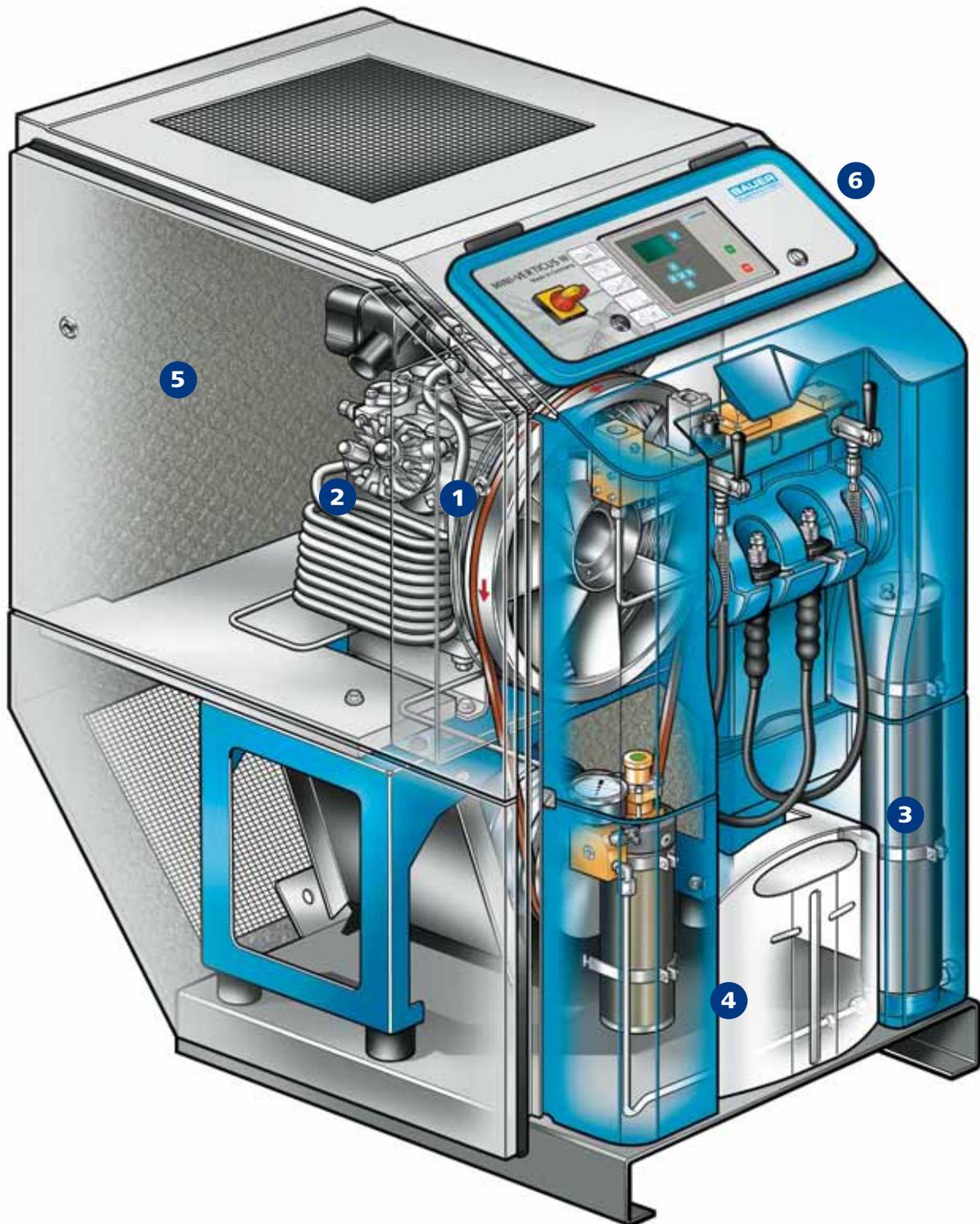


**The new MINI-VERTICUS III:  
A well designed field-  
proven system concept that  
sets standards in technology  
and ergonomics.**

The ideal partner for diving centers and diving shops, who expect reliable and long-life use coupled with low operating expenses. Rapid spare parts supply and service ensure a successful diving season - worldwide.

The P 41 purification system ensures pure breathing air quality according to DIN EN 12021<sup>1</sup>.

<sup>1</sup>In combination with Bauer's AERO-GUARD system, and only when the intake air's CO<sub>2</sub> concentration exceeds the standard threshold



**1** FANWHEEL

**2** COMPRESSOR BLOCK

**3** P 41-FILTER SYSTEM

**4** CONDENSATE COLLECTING TANK

**5** SUPER SILENT HOUSING

**6** COMPRESSOR CONTROL

## Convincing Scope of Supply

### 1 COOL HEAD

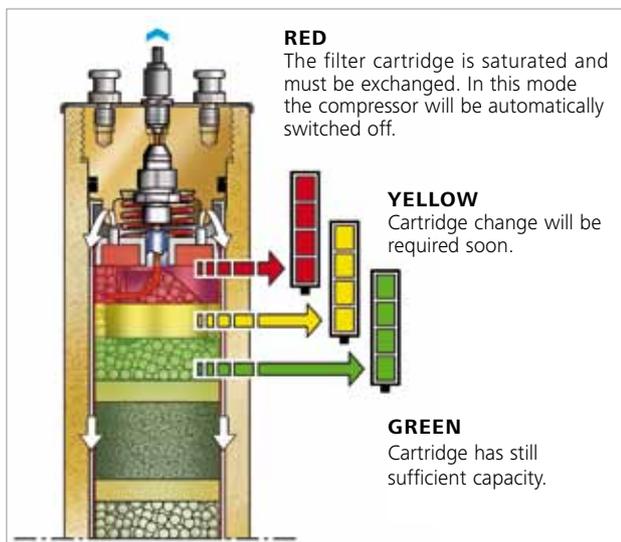
Trouble-free continuous running even in the most difficult climatic conditions thanks to its optimum cooling system.

- › The cooling air is conducted through the housing to achieve effective heat elimination.
- › Fanwheel with optimized blade geometry generates more pressure for improved cooling power.
- › Oil cooling in the final compression stage for minimal wear and tear and for a longer life.

### 2 STRONG HEART

High economic efficiency due to the gearing of the compressor blocks which is made for extreme working stress and continuous running.

- › Long-life, robust industrial roller bearings with minimum friction.
- › Hardened cylinders with special honing technique for minimal oil consumption and wear.
- › Robust low pressure oil pump with oil filter for longer life and oil change intervals.
- › New powerful intake filter for greater delivery capacity and silent operation.
- › Interstage and afterstage coolers made of stainless steel against corrosion.
- › Virtually wear and tear-free high-tech polymer piston rings in the last stage.



SECURUS - traffic light principle

### 3 LOTS OF STAYING POWER

P 41-Filter system with extended filter life offers increased economical advantages.

- › Superior BAUER filter technology ensures pure breathing air conforming to DIN EN 12021<sup>1</sup>.
- › The SECURUS filter monitoring system (optional) continually checks the humidity in the air and automatically switches off when the filter is saturated.

<sup>1</sup> In combination with Bauer's AERO-GUARD system, and only when the intake air's CO<sub>2</sub> concentration exceeds the standard threshold



P 41 filter system, cartridge change in a minute

### 4 OBLIGING

thanks to compact dimensions, ergonomic design and a maintenance-friendly system.

- › Condensate reservoir integrated in the front of the housing for fast disposal and easy control.
- › Free access to compressor block, air filter and oil inlet connection simplify maintenance work.

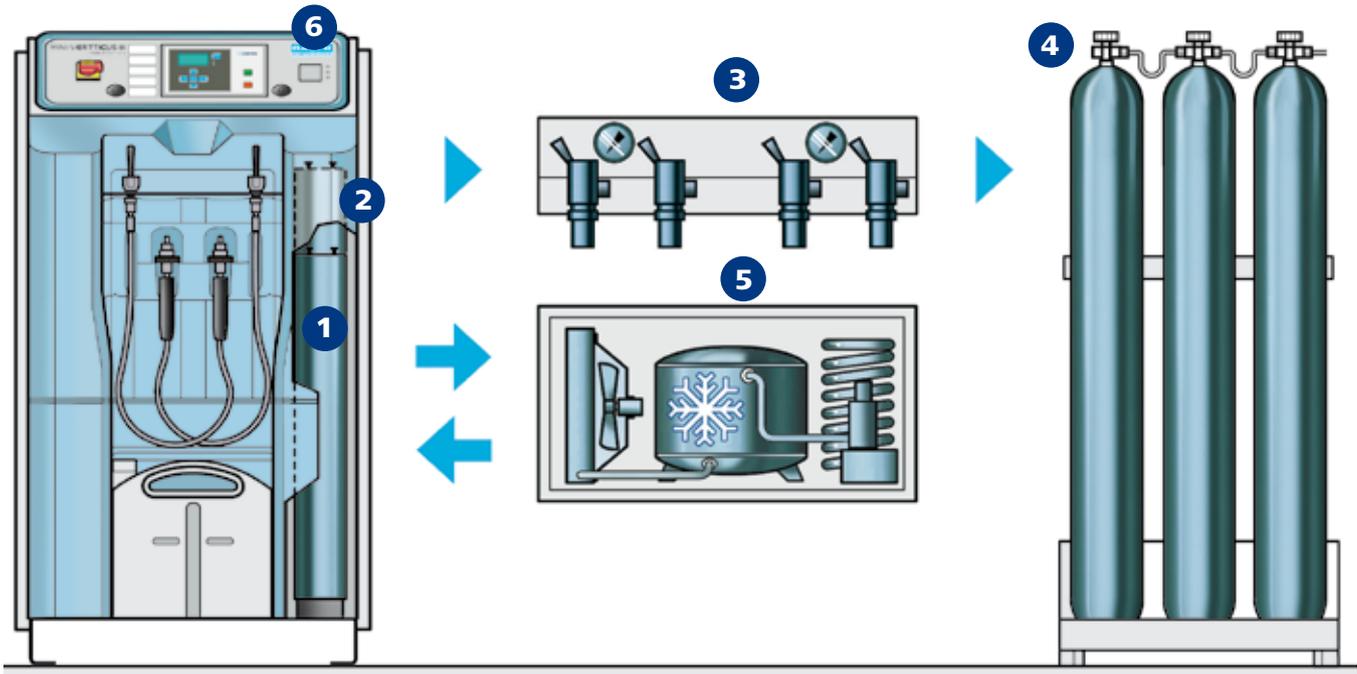
### 5 QUIET

Thanks to its efficiently insulated „silent housing“, it operates at 68 dB(A)\*.

\*+/- 2 dB(A), at the distance of 1m / 3'

- › Highly absorbent special insulation materials.
- › Housing designed to optimize sound reduction.

## The System



- 1 P 61 FILTER SYSTEM** optional with of higher capacity for longer filter life
- 2 CHARGE CONNECTION** for external filling panel and storage bank
- 3 EXTERNAL FILLING PANEL** for high charge capacity requirement
- 4 STORAGE BATTERY** for a large volume of spare air
- 5 B-KOOL** refrigeration dryer for increased life span of the purification cartridge
- 6 SECURUS** filter monitoring ensures pure air conforming to DIN EN 12021<sup>1</sup>

<sup>1</sup> In combination with Bauer's AERO-GUARD system, and only when the intake air's CO<sub>2</sub> concentration exceeds the standard threshold

## Technical Data

Model	Charging rate	RPM	Filling rate	Drive		Filter system	Dimensions (app. cm)			Weight net	Noise level <sup>4</sup>
				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				approx. kg	dB (A)
MV 100-4-3	150	1340	1,3	4,0	5,5	P 41	102	74	130	255	68
MV 120-4-3	200	1270	1,0	4,0	5,5	P 41	102	74	130	255	68
MV 120-5,5-3	250	1470	0,8	5,5	8,0	P 41	102	74	130	260	68

<sup>1</sup> available with switch over device 330 / 225 bar or 225 bar/330 bar alternatively

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

<sup>3</sup> Filling rate for 1 l cylinder capacity

<sup>4</sup> Sound pressure level, measured in 1m distance