

# MINI-VERTICUS & VERTICUS THE NEXT GENERATION

COMPRESSORS FOR SPORTS & SAFETY APPLICATIONS



# MINI-VERTICUS & VERTICUS

## STATIONARY COMPRESSORS – REINVENTED

The new MINI-VERTICUS & VERTICUS Series set the standards of the future for stationary high-pressure compressor systems. The series combines the quality and reliability of the preceding stationary compressor series with an all-new design, B-APP smartphone connection, online air quality monitoring and outstanding ergonomic features.

The new, extremely compact MINI-VERTICUS benefits particularly from BAUER's signature design, which enabled the maximum delivery volume of its top-end model to be increased by 20 percent to 320 l/min. In addition, numerous accessory models from the larger VERTICUS series, such as the B-CONTROL II control unit, are also available now.

Complete with remote-control operation and control using the B-APP (optional). With an ultra-reliable, high-precision smart internal online measurement system that monitors compliance with all toxin limit values<sup>1</sup> in the air and automatically shuts down the system in case of doubt.

Significantly quieter to run. And with outstandingly ergonomic design and unparalleled ease of operation.

- › 220 to 420 bar
- › 150 to 680 l/min
- › Available with open or soundproofed housing



### SMARTPHONE INTERACTION

The newly developed B-APP works with B-CONTROL to transform your smartphone into a high-performance compressor remote control unit.



### CONTINUOUS AIR MONITORING

B-DETECTION PLUS i is the new fully integrated gas measurement system that monitors the quality of the breathing air produced by the system. Automatic, continuous and outstandingly reliable.



### ICONIC DESIGN

The groundbreaking design sets new standards. All the main operating elements and displays are conveniently located on the front for maximum ease of access and viewing. The front panel can be opened with a single movement to change the filter rapidly and conveniently.



### CONVENIENCE AND SAFETY

The filling levers feature a new easy-grip ergonomic design that also effectively prevents pressurised filling hoses from being opened by mistake when unconnected to gas cylinders.



### EVEN QUIETER

The sophisticated soundproofing concept has reduced the already low noise level still further. The motor is suspended in an optimised anti-vibration frame and incorporates a new type of high-efficiency hydro-damping system.

<sup>1</sup> According to DIN EN 12021:2014. Measurement of humidity and total oil value (VOC) as option. Total oil measurement based only on volatile organic compounds (VOCs). Sensor calibration based on isobutene.

## THE NEW B-APP

### THE IDEAL SYSTEM MONITORING AND CONTROL UNIT



The new B-APP<sup>1</sup> communicates with your compressor system using WiFi. It provides simple, direct remote access to functions of your high-performance B-CONTROL MICRO compressor control unit.

The display provides at-a-glance monitoring of the main system levels, including air quality and final pressure, as well as important maintenance information. A major bonus in convenience and safety.

As a practical extra, the integrated dealer search rapidly locates your nearest BAUER service partner for your maintenance and parts needs.

#### ADDITIONAL FEATURES

- › **News:** Useful up-to-date information on the latest products, product modifications, service details and other topics related to compressed air.
- › **Remote:** Displays information in real time, such as current actual status of the compressor or the B-DETECTION PLUS unit.
- › **Tools:** Unit conversion calculator, tools for calculating filter cartridge life with and without B-KOOL, filling time, condensate volume, and converting free air delivery volumes to standard conditions.
- › **Worldwide:** Convenient global search function for the nearest BAUER offices and their sales and service partners.
- › **Videos:** Provide information about the company and new products. As a particularly useful addition, a range of service instructions give practical assistance in aspects such as changing filter cartridges or oil.

<sup>1</sup> As a requirement for the B-APP remote function, the B-CONTROL MICRO compressor control unit must have a valid IP address and be connected to the same local area network (LAN/WLAN) as the smartphone.

Available free of charge for  
IOS from the App Store and for Android from Google play



## THE NEW B-DETECTION PLUS

### PERMANENTLY MONITORS THE QUALITY OF YOUR BREATHING AIR

The optional fully integrated gas measurement system, B-DETECTION PLUS i, monitors the quality of the breathing air produced by the system. Automatic, continuous and outstandingly reliable. The optional humidity monitoring function takes over the function of B-SECURUS and allows lower-cost standard cartridges to be used.

The display of the B-CONTROL MICRO compressor control unit allows you to monitor compliance with the limit values of the DIN EN 12021:2014<sup>1</sup> Breathing Air Standard at all times. If limit values are exceeded, the control unit displays a visual warning and shuts down the system before contaminated air can pass into the cylinders being filled.

In cases where limit values are briefly exceeded, an automatic flush valve (optional) discharges contaminated air to the outside without interrupting operation of the system.

BAUER's B-DETECTION PLUS i provides operators with the maximum security concerning health and legal liability issues.

Measurement uses high-quality sensors with continuous life-check function, ensuring reliable sensor performance. An optional humidity membrane can be added to maximise sensor life.

- › Measurement of O<sub>2</sub>, CO, CO<sub>2</sub> and optional functions for absolute humidity and VOC<sup>1</sup> as per DIN EN 12021:2014
- › A data logger function enables all measurement values within a defined period to be logged and exported as an Excel file using an SD card.
- › Connection for test gases on front of the system to allow rapid, easy system testing

<sup>1</sup> Residual oil measurement based only on volatile organic compounds (VOCs). Sensor calibration based on isobutene.



## THE NEW SYSTEMS

### SETTING NEW STANDARDS IN DESIGN, ERGONOMICS AND FUNCTION

“Form follows function”, the famous quotation from Mies van der Rohe, was our watchword during development of this new design.

The filter system is integrated into the housing, yet within easy reach; the top front panel with the control unit can be raised for immediate access to the purification system, so that changing the cartridge is simple and fast. As a further benefit, the filter housing is now located in the colder front area of the system and offers extended cartridge life. The control panel is also located on the side of the compressor for optimum cooling. The control panel can be fully extended for maximum convenience in operation.

The condensate vessel, now with 40 per cent higher capacity, is located in the interior of the compressor. It is emptied using a convenient service valve.

The new filling devices showcase the meticulous attention applied to every detail of the operating procedure; the filling levers feature a new easy-grip ergonomic design and functional holders that also effectively prevent pressurised filling hoses from being opened by mistake when unconnected to gas cylinders.

The new B-DRAIN automatic condensate drain system ensures that any oil/water condensate is extracted quietly with minimum loss of pressure. This prolongs the service life of pressurised parts and saves energy.



## THE NEW ACCESSORIES

### SIGNIFICANTLY EXPANDS WHAT YOUR SYSTEM CAN DO

The new MINI VERTICUS & VERTICUS Series are supplied with a wide range of features as standard.

However, we also want you to have the opportunity to customise and extend your system in line with your individual requirements. Our comprehensive range of accessories opens up virtually unlimited possibilities. See our “Accessory Systems” brochure for a full overview of our products.

- › **B-DETECTION PLUS s:** The new gas measurement system is also available as a standalone model for retrofitting, with the same range of features.
- › **B-KOOL:** This fully integrated refrigeration dryer helps you to slash operating costs by significantly extending filter cartridge life. Purchase costs are soon recouped; from then onwards, you save money while helping to conserve the environment.
- › **B-SECURUS filter cartridge monitoring unit:** Efficiently monitors filter cartridge saturation and warns the operator in good time when the cartridge is nearing the end of its service life. If the cartridge reaches full saturation without being changed, B-SECURUS shuts down the system before moisture and oil can contaminate the air cylinders.
- › **Oil level monitoring function:** The optional oil level monitoring function effectively prevents damage to the compressor caused by excessively low oil levels. The function shuts down the system in time to avert damage and flashes a warning in the control unit display. Recommended for compressor systems in permanent operation.
- › **Particulate filter:** In combination with the P61 and P81 purification systems, an optional integrated particulate filter is available for effective protection against fine dust and other solid particles. This permits the reliable removal of particles in accordance with ISO 8573 class 2.



## TECHNICAL DATA

Types	Charging rate <sup>1</sup>		Operating pressure max.		Purification system	No. of stages	Speed	Motor/motor output		Net weight approx. <sup>2</sup>	Dimensions L x W x H <sup>3</sup>
	l/min	cfm	bar	psig				rpm	Motor		
<b>MINI-VERTICUS up to 350 bar</b>											
MV150	150	5.3	350	5000	P 41/350	3	1,340	400 V/50 Hz <sup>4</sup>	4	324	120 x 81 x 138
MV200	200	7	350	5000	P 41/350	3	1,270	400 V/50 Hz <sup>4</sup>	4	324	120 x 81 x 138
MV250	250	9	350	5000	P 41/350	3	1,470	400 V/50 Hz <sup>4</sup>	5.5	333	120 x 81 x 138
MV320	320	11.5	350	5000	P 41/350	4	1,450	400 V/50 Hz <sup>5</sup>	7.5	350	120 x 81 x 138
<b>MINI-VERTICUS up to 420 bar</b>											
MV260/420	260	9.2	420	6000	P 41/420	4	1,185	400 V/50 Hz <sup>4</sup>	5.5	349	120 x 81 x 138
MV320/420	320	11.5	420	6000	P 41/420	4	1,450	400 V/50 Hz <sup>5</sup>	7.5	356	120 x 81 x 138
<b>VERTICUS up to 350 bar</b>											
V450	450	16	350	5000	P 61/350	4	1,320	400 V/50 Hz <sup>5</sup>	11	402	120 x 81 x 153
V540	540	19	350	5000	P 61/350	4	1,230	400 V/50 Hz <sup>5</sup>	11	402	120 x 81 x 153
V680	680	24	350	5000	P 61/350	4	1,400	400 V/50 Hz <sup>6</sup>	15	416	120 x 81 x 153
<b>VERTICUS up to 420 bar</b>											
V450/420	450	16	420	6000	P 61/420	4	1,320	400 V/50 Hz <sup>5</sup>	11	408	120 x 81 x 153
V560/420	560	19.7	420	6000	P 61/420	5	1,490	400 V/50 Hz <sup>5</sup>	15	408	120 x 81 x 153

1 Measured in cylinder filling (10 l) from 0–200 bar, ± 5 %

2 Weight increases by approx. 50 kg in the Super Silent version

3 Dimensions in Super Silent version:

VERTICUS: L x W x H: 154 x 81 x 153 cm

MINI-VERTICUS: L x W x H: 136 x 81 x 138 cm

4 Plug dimensions: 16 A

5 Plug dimensions: 32 A

6 Without plug

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### MINI-VERTICUS & VERTICUS EN

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Subject to technical change without notice