

# PE-VE SERIES

COMPRESSORS FOR SPORTS & SAFETY APPLICATIONS



SPORTS & SAFETY



# PE-VE

## PE-VE SERIES – FOR UNIVERSAL USE WITH CHARGING RATES UP TO 850 L/MIN

The PE-VE Series offers impressive peak free air delivery rates of up to 850 l/min.

Professionally customised to meet individual needs and charging rate requirements in breathing air applications, PE-VE units feature practical functions, BAUER's hallmark quality and certified safety for reliable stationary operation

The compressors are available in versions for 225 bar and/or 330 bar and for 420 bar.

The modular design of the PE-VE Series enables the units to be ideally aligned to your needs. B-CONTROL SMART

The B-CONTROL MICRO demand-driven electronic control unit features clear functional menu-based operation for safe, secure and convenient use and enables the compressor to be controlled fully automatically.

- › 300 - 850 l/min
- › 225/330/420 bar
- › 7.5 – 18.5 kW

### FEATURES

- › Optional Super Silent housing to minimise noise
- › Demand-driven electronic compressor control unit: B-CONTROL MICRO
- › Low-maintenance: no V-belt adjustment necessary

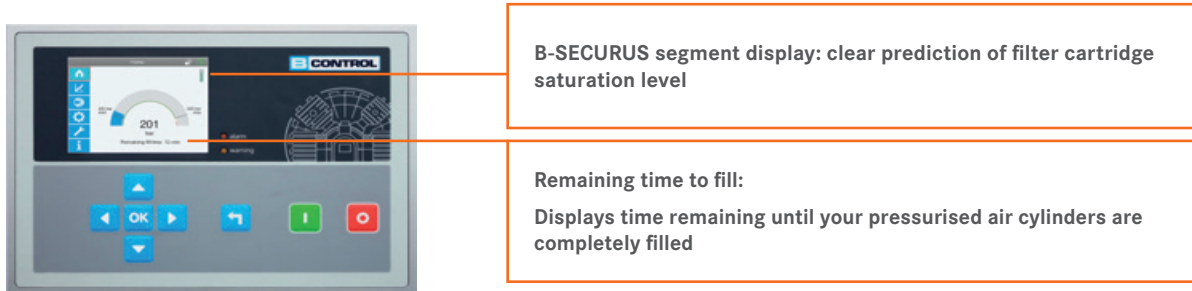
### OPTIONAL FEATURES (SELECTED)

- › Super Silent soundproof housing
- › B-SECURUS filter cartridge saturation monitoring system
- › Filling device for 4 x 200 bar / 4 x 300 bar<sup>1</sup>
- › Remote control and monitoring with the B-APP
- › B-KOOL refrigeration dryer<sup>1</sup>
- › Gas measurement system B-DETECTION PLUS
- › B-AEROGUARD CO<sub>2</sub> reduction system
- › BAUER high pressure storage system
- › Automatic selector unit B-SELECT
- › External BAUER filling panel B-FILL



PE 850-VE with B-CONTROL MICRO control unit and optional Super Silent housing

<sup>1</sup> Not available for PE 850-VE.



B-CONTROL MICRO

B-CONTROL MICRO is a modern, easy-to-use compressor control unit with colour display that provides intelligent control and safe monitoring of all basic functions. The unit is integrated into all PE-VE Series systems as standard and enables compressor systems to be operated fully automatically<sup>1</sup>. Interaction between user and control unit is user-friendly and logical. An extensive language selection is now available<sup>2</sup>. As a further benefit, interfacing with external input/output signal encoders is possible at any time, as is interconnected operation or the connection of an external display unit.

- › 3.5" TFT colour display with clear text
- › Fully automatic monitoring of relevant parameters; compressor shutdown if values are outside permissible ranges
- › Oil pressure monitoring – protects against incorrect rotation direction
- › Ethernet connection for communication with the B-APP

<sup>1</sup> Automatic shutdown when pre-set final pressure is reached and automatic switch-on if pressure falls below a pre-defined minimum.

<sup>2</sup> German, English, French, Italian, Dutch, Polish, Spanish, Czech, Portuguese, Chinese, Japanese, Russian and more on request.

## ACCESSORIES



External cartridge purification system



B-AEROGUARD



B-VIRUS FREE

### AIR AND GAS PURIFICATION

- › B-AEROGUARD CO<sub>2</sub> Adsorber – reduces CO<sub>2</sub> in intake air
- › B-VIRUS FREE – removes viruses, bacteria, moulds and pollen from breathing air
- › External cartridge purification systems
- › B-KOOL Refrigeration Dryer – extends cartridge life
- › SECCANT Regeneration Dryer – extends cartridge life and maximises operating hours and charging rates



SECCANT



B-KOOL III



2 x B80 Storage cylinder system

### STORAGE AND DISTRIBUTION

- › Single high-pressure cylinders
- › Storage cylinder racks – with one or more storage cylinders
- › Optional safety valve for maximum safety
- › Automatic selector unit – for fast, economical filling of storage cylinders



Automatic selector unit

## FILLING AND SAFETY

- › B-FILL external filling panels – for wall mounting, with optional remote control unit
- › B-SAFE Filling System – for safe filling of breathing air cylinders
- › FSC Filling Speed Control unit – reduces filling speed to 20 up to 50 bar/min for safe filling, particularly of composite cylinders



External filling panel B-FILL



B-DETECTION PLUS

## GAS MEASUREMENT TECHNOLOGY

- › AERO-TEST – portable breathing air tester
- › B-DETECTION PLUS m – mobile online gas measurement system for rapid on-the-spot measurement of O<sub>2</sub>, CO, CO<sub>2</sub> and optional measurement of absolute moisture and residual oil (VOC)<sup>1</sup> in breathing air cylinders or at high-pressure ports.
- › B-DETECTION PLUS i and s – fixed online gas measurement systems for continuously measuring O<sub>2</sub>, CO and CO<sub>2</sub> with optional functions for absolute humidity and total oil value (VOC)<sup>1</sup>. Measuring values can be logged at any time and are saved in Excel format on an SD card for easy access and use.
- › **NEW!** Now not only the ambient air can be measured, but also the intake air and the air in the cylinder.
- › **NEW!** Measurement of gases and breathing air up to 420 bar possible
- › **NEW!** The B-DETECTION PLUS is now also B-APP and B-CLOUD compatible

For further accessories and more details, see our brochures “BAUER Accessories” and “B-DETECTION PLUS -The next generation online gas measurement systems” and visit [www.bauer-kompressoren.de](http://www.bauer-kompressoren.de)



B-DETECTION PLUS m

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

## B-APP

The B-APP makes remote control and monitoring of the compressor possible via smartphone or tablet as well!<sup>1</sup>

B-APP also offers additional features such as product-specific news, videos, an integrated dealer search function and calculation tools.

Available in the App Store (iOS) and on GooglePlay (Android).



The new B-APP turns your smartphone into a compressor control unit.

## B-CLOUD

**NEW!** With the BAUER B-CLOUD you always have everything in view. One look at the B-APP or the B-CLOUD browser app is enough and all important information is available to you. Whether you want to check the status of your equipment or need the help of our service technicians in case of a problem, BAUER and the B-CLOUD will support you.

The B-APP reports malfunctions with a machine diagnosis in plain text so that you know immediately where the problem lies. In addition, the B-CLOUD informs you regularly about upcoming maintenance work and, if desired, networks with your BAUER-authorized service partner. The archiving of all important data and the automated creation of monthly reports also works completely stress-free via the B-CLOUD.

At present, the following POSEIDON EDITION BAUER systems are B-CLOUD ready:

▶ PE-VE

## DATA SECURITY

An integral part of B-CLOUD<sup>2</sup> involves ensuring the security of compressor systems and the data they transmit.

Particularly rigorous protection applies to compressor authentication, communication and identification. End-to-end encryption is in place for all data transmitted between control unit and cloud.



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

<sup>2</sup> All data stored in B-CLOUD is stored in a high-security data centre located in Western Europe. B-CLOUD complies with the requirements set out in the EU-GDPR and uses SSL encryption.

Please note that B-CLOUD services are not available in all states. You can find more information about the B-CLOUD on our website: [bauer-kompressoren.com/b-cloud](http://bauer-kompressoren.com/b-cloud)

## TECHNICAL DATA

### PE-VE UP TO 350 BAR

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx. <sup>2</sup>	Dimensions <sup>3</sup> L x W x H
	l/min	cfm	bar	psig				rpm	Motor		
PE 300-VE	300	11	350	5,000	P 41	3	1,800	400 V/50 Hz <sup>4</sup>	7.5	299	114 x 83 x 152
PE 400-VE	400	14	350	5,000	P 41	4	1,800	400 V/50 Hz <sup>5</sup>	11	304	114 x 83 x 152
PE 550-VE	550	20	350	5,000	P 41	4	1,230	400 V/50 Hz <sup>5</sup>	11	378	114 x 83 x 152
PE 700-VE	700	25	350	5,000	P 61	4	1,400	400 V/50 Hz <sup>6</sup>	15	403	114 x 83 x 152
PE 850-VE	850	30	350	5,000	P 61	4	1,800	400 V/50 Hz <sup>6</sup>	18.5	425	160 x 83 x 152

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

2 Weight of Super Silent version approx. 90 kg higher

3 Dimensions of Super Silent version: 148 x 83 x 152 cm / 160 x 83 x 152cm (PE 850)

4 Plug dimension: 16 A

5 Plug dimension: 32 A

6 Without plug

### PE-VE UP TO 420 BAR

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx. <sup>2</sup>	Dimensions <sup>3</sup> L x W x H
	l/min	cfm	bar	psig				rpm	Motor		
PE 250/420-VE	250	9	420	6,000	P 41/420	3	1,470	400 V/50 Hz <sup>4</sup>	5.5	292	114 x 83 x 152
PE 320-VE	320	11.5	420	6,000	P 41/420	4	1,450	400 V/50 Hz <sup>4</sup>	7.5	299	114 x 83 x 152
PE 500-VE	500	18	420	6,000	P 41/420	5	1,170	400 V/50 Hz <sup>5</sup>	11	304	114 x 83 x 152
PE 600-VE	560	19.8	420	6,000	P 61/420	5	1,490	400 V/50 Hz <sup>5</sup>	11	378	114 x 83 x 152

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

2 Weight of Super Silent version approx. 90 kg more

3 Dimensions of Super Silent version: 148 x 83 x 152 cm

4 Plug dimension: 16 A

5 Plug dimension: 32 A



## ARE YOU INTERESTED IN OUR PRODUCTS?

CONTACT US – WE ARE HAPPY TO PROVIDE INFORMATION AND ASSISTANCE:

**BAUER KOMPRESSOREN GmbH**  
Stäblistr. 8  
81477 Munich, Germany  
Tel. +49 (0) 89 78049-0  
Fax +49 (0) 89 78049-167  
[info@bauer-kompressoren.de](mailto:info@bauer-kompressoren.de)  
[bauer-kompressoren.de](http://bauer-kompressoren.de)



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Subject to technical change without notice