

# PE-VE INDUSTRY

STRONG PERFORMANCE AT A COMPACT PRICE



**75**  
1946 - 2021

**BAUER**  
KOMPRESSOREN

## FOCUSING ON THE CORE OF QUALITY

### THE PE-VE SERIES – AN ALL-ROUNDER FOR THE INDUSTRY SECTOR

**BAUER's new PE-VE Series presents compressors offering an attractive range of features from the Basic model upwards, all at outstanding value for money.**

The systems are available for pressures up to 420 bar and as booster systems. Available with a wide range of compressor options and extensive accessories, the PE-VE Series enables tailored solutions to be designed for virtually all uses involving breathing air or nitrogen.

The systems have BAUER's high-pressure compressor blocks at their core, with their legendary market reputation for reliability and durability. The system technology is designed for industrial use.

As an all-new feature, the B-APP enables users to control and monitor their systems from a smartphone in real time.

- › 25 - 420 bar
- › 85 - 1470 l/min
- › Available as open or soundproofed models
- › For air and nitrogen
- › Compressor or booster version





### ULTIMATE EASE OF OPERATION

The PE-VE Series is a classic mainstay of BAUER's product programme. Advanced and perfected over the years, its design has been proven in practice thousands of times over and is synonymous with reliability, ease of operation and easy maintenance.



### BUILT FOR INDUSTRIAL USE

BAUER high-pressure compressor blocks form the core of the system. With their legendary high standards of durability and ruggedness, they provide reliability compression of air and nitrogen to the required final pressure over years of industrial use.



### SUPER SILENT SOUNDPROOFED MODEL

The PE-VE Series SUPER SILENT model features a sophisticated soundproofed design that reduces noise emissions to virtually negligible levels. The compressor block is separated from the base frame by means of a special motor suspension for low-vibration operation.



### SMARTPHONE INTERACTION

The new B-APP combines with B-CONTROL to transform your smartphone into an advanced remote control unit for the compressor. The smartphone display enables operating data for the system to be accessed in real time and operation control commands to be entered.



### B-CLOUD REMOTE ACCESS

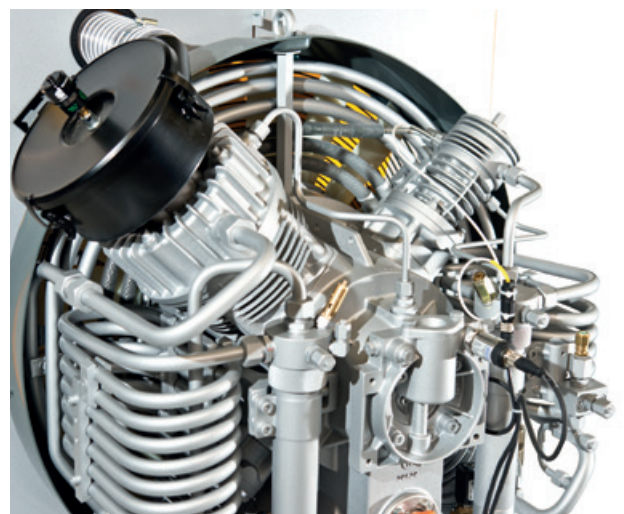
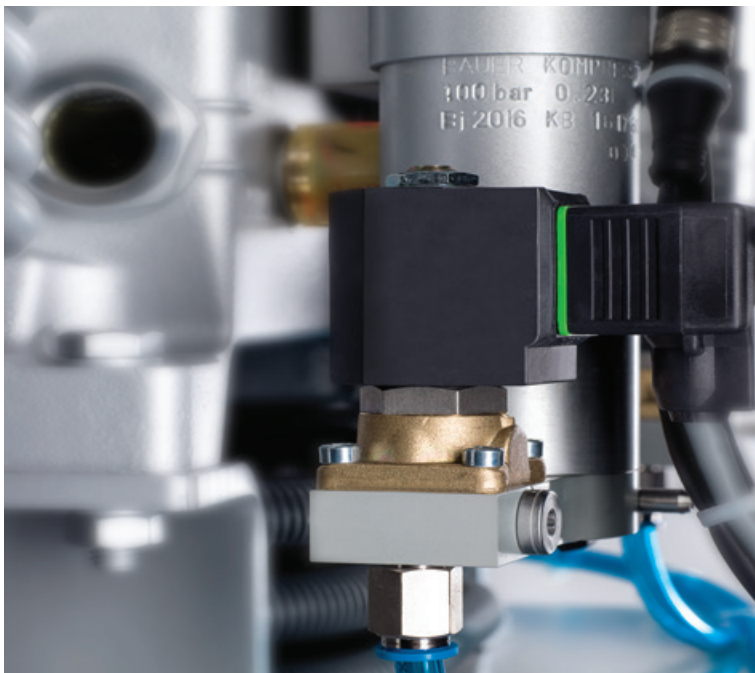
B-CLOUD delivers a continuous real-time overview of all operating data from your BAUER compressor systems with B-CONTROL MICRO. If alerts or faults occur, you receive a push message on your smartphone if required.

## TARGETED TECHNOLOGY SOLUTIONS

### MODULAR CONCEPT FOR TAILORED SOLUTIONS

The new PE-VE Series combines tried-and-tested technology, proven over decades, with cutting-edge new features such as the B-APP, which enables systems to be controlled and monitored from a smartphone. Offering numerous model variants and with a consistent modular structure, the Basic system can be expanded in a targeted manner to suit the precise needs of the user. The extensive range of accessories includes soundproof cladding, air and gas purification systems, filter cartridge monitoring, refrigeration dryer to extend filter cartridge life, and storage solutions.

- › Cylinders are plasma-nitrided and plateau-honed for outstanding surface hardness, ensuring extra-long service life
- › The free pistons in the compressor's high-pressure final stage have practically wear-resistant piston rings of high-tech plastic.
- › The compressor systems are equipped with energy-saving three-phase motors with IE3 energy efficiency rating as standard. Power transmission is provided by a low-maintenance self-tensioning V-belt drive.
- › **New:** The B-DRAIN automatic condensate drain system ensures that any oil/water condensate is extracted energy-efficiently at minimum loss of pressure, low noise and low wear.



## SMART SYSTEM MANAGEMENT

### SAFETY AND CONTROL AT ALL TIMES – WITH B-CONTROL MICRO AND B-APP



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

Use your smartphone to switch the system on and off and monitor the main system parameters – including air quality and final pressure – at a glance. Notifications of key maintenance information are a major plus for convenience and safety.

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



**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.**

Interaction between user and control unit is user-friendly and logical. The colour display presents information in clear text. A choice of languages is available. The new user-friendly display and navigation set new standards. 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.

<sup>1</sup> The requirement for the use of the remote function is that the B-CONTROL MICRO +Net is integrated into the same local network (LAN/WLAN) as the smartphone, with a valid IP address.

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

## PE-VE INDUSTRY – OPTIONAL FEATURES

### CUSTOMISE THE SYSTEM TO YOUR INDIVIDUAL NEEDS

- › **SUPER SILENT cladding:** Reduces the acoustic pressure level of the compressor system while permitting an exhaust air shaft to be used. Super Silent cladding can be retrofitted at a later date if required.
- › **P 41/61 Purification Systems:** Depending on the application or filter cartridge type, these systems absorb, convert or extract moisture (H<sub>2</sub>O) and oil. They are available as integrated and external models.
- › **Particulate filter**
- › **B-SECURUS filter cartridge monitoring unit:** Efficiently monitors filter cartridge saturation.
- › **B-KOOL:** This fully integrated refrigeration dryer helps you to slash operating costs by significantly extending filter cartridge life. Purchase costs are soon recouped.
- › **Intake unit:** Delivers air or gas to the compressor at appropriate monitored intake pressure.
- › **Intake pressure reducer**
- › **60-litre condensate vessel**
- › **Base frame-mounted storage systems:** The compressor and up to two storage cylinders, each with a geometric volume of 50 or 80 litres, are mounted on an extended base frame to form a ready-to-use system.
- › **Exhaust air shaft:** For installation of SUPER SILENT systems in containers, housings or operating rooms.



## TECHNICAL DATA

### PE-VE 365 BAR

Model	F.A.D. <sup>1</sup>			Max. operating pressure <sup>2</sup>		No. of stages	Speed rpm	Motor power kW	Net weight approx.	
	l/min	m <sup>3</sup> /h	cfm	bar	psig				kg	lbs
<b>PE-VE SERIES, 90 - 365 bar</b>										
PE 100-3-VE	85	5.1	3	365	5300	3	900	3	270	595
PE 100-4-VE	125	7.5	4.4	365	5300	3	1270	4	275	610
PE 120-4-VE	170	10.2	6	365	5300	3	1200	4	275	610
PE 120-5.5-VE	215	12.9	7.6	365	5300	3	1470	5.5	290	640
PE 120-7.5-VE	260	15.6	9.2	365	5300	3	1800	7.5	305	675
PE 12.14-11-VE	350	21	12.4	365	5300	4	1800	11	325	720
PE 150-11-VE	500	30	17.7	365	5300	4	1230	11	350	770
PE 180-15-VE	620	37.2	21.9	365	5300	4	1440	15	365	805
PE 180-18.5-VE <sup>3</sup>	800	48	28.3	350	5100	4	1800	18.5	385	850

Dimensions L x W x H  
 1140 x 830 x 1520 mm  
 PE 180-18.5-VE:  
 1600 x 830 x 1520 mm

## PE-VE 420 BAR

Model	F.A.D. <sup>1</sup>			Max. operating pressure <sup>2</sup>		No. of stages	Speed	Motor power	Net weight approx.	
	l/min	m <sup>3</sup> /h	cfm	bar	psig				kg	lbs
<b>PE-VE SERIES, 350 - 420 bar</b>										
PE 100-3-VE-420 <sup>3</sup>	85	5.1	3	420	6100	3	900	3	270	595
PE 120-5.5-VE-420 <sup>3</sup>	190	11.4	6.7	420	6100	3	1350	5.5	290	640
PE 12.14-7.5-VE-420	300	18	10.6	420	6100	4	1450	7.5	300	660
PE 18.1-11-VE-420	450	27	15.9	420	6100	5	1400	11	380	840
PE 18.1-15-VE-420	515	30.9	18.2	420	6100	5	1490	15	380	840

Dimensions L x W x H  
1140 x 830 x 1520 mm

## PE-VE BOOSTER 365 BAR

Model	F.A.D. <sup>1</sup>			Intake pressure	Max. operating pressure <sup>2</sup>		No. of stages	Speed	Motor power	Net weight approx.	
	l/min	m <sup>3</sup> /h	cfm		bar	bar				psig	rpm
<b>PE-VE SERIES, 200 - 950 l/min, 90 - 365 bar</b>											
PE 10.2-7.5-VE	290	17.4	10.2	2	365	5300	3	1350	7.5	310	685
	385	23.1	13.6	3	365	5300	3	1350	7.5	310	685
PE 12.2-5.5-VE	200	12	7.1	5	365	5300	2	1300	5.5	290	640
	295	17.7	10.4	7	365	5300	2	1300	5.5	290	640
	390	23.4	13.8	9	365	5300	2	1300	5.5	290	640
	475	28.5	16.8	11	365	5300	2	1300	5.5	290	640
	510	30.6	18	7	365	5300	2	1140	11	350	770
PE 15.3-11-VE	590	35.4	20.8	8	365	5300	2	1140	11	350	770
	670	40.2	23.7	9	365	5300	2	1140	11	350	770
	750	45	26.5	10	365	5300	2	1140	11	350	770
	660	39.6	22.3	7	365	5300	2	1440	15	360	795
PE 15.3-11-VE (high flow)	760	45.6	26.8	8	365	5300	2	1440	15	360	795
	850	51	30	9	365	5300	2	1440	15	360	795
	950	57	33.5	10	365	5300	2	1440	15	360	795
	430	25.8	15.2	2	365	5300	3	1350	15	365	805
PE 15.41-15-VE	590	35.4	20.8	3	365	5300	3	1350	15	365	805
	750	45	26.5	4	365	5300	3	1350	15	365	805
	490	29.4	17.3	2	365	5300	3	1530	15	365	805
PE 15.41-15-VE (high flow)	660	39.6	23.3	3	365	5300	3	1530	15	365	805
	830	49.8	29.3	4	365	5300	3	1530	15	365	805

1 Volume flow rate according to ISO 1217. Different ambient conditions will result in differing performance values. Values valid for 50 Hz.

2 Maximum allowable working pressure = max. setting safety valve; final pressure (shut-down pressure) lower.

3 Not suitable for compressing nitrogen.

Dimensions L x W x H  
1140 x 830 x 1520 mm

## PE-VE BOOSTER 50 BAR

Model	F.A.D. <sup>1</sup>			Intake pressure	Shut-down pressure max.		No. of stages	Speed	Motor power	Net weight approx.	
	l/min	m <sup>3</sup> /h	cfm	bar	bar	psig				rpm	kW
<b>PE-VE BOOSTER   25 – 50 bar</b>											
PE12.3-5.5-VE	610	37	21,5	5	25	360	1	1300	5,5	290	640
	550	33	19,4	5	30	435	1	1300	5,5	290	640
	465	28	16,4	5	40	580	1	1300	5,5	290	640
	1040	62	36,7	7,5	25	360	1	1300	5,5	290	640
	950	57	33,5	7,5	30	435	1	1300	5,5	290	640
	800	48	28,3	7,5	40	580	1	1300	5,5	290	640
	700	42	24,7	7,5	50	725	1	1300	5,5	290	640
	1470	88	51,9	10	25	360	1	1300	5,5	290	640
	1390	83	49,1	10	30	435	1	1300	5,5	290	640
	1210	73	42,7	10	40	580	1	1300	5,5	290	640
	1080	65	38,1	10	50	725	1	1300	5,5	290	640

<sup>1</sup> Volume flow rate according to ISO 1217. Different ambient conditions will result in differing performance values. Values valid for 50 Hz.

Dimensions L x W x H  
1140 x 830 x 1520 mm

**INTERESTED IN OUR  
PRODUCTS?**

**CONTACT US – WE ARE HAPPY TO PRO-  
VIDE INFORMATION AND ASSISTANCE.**

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Subject to technical change without notice