

PE-VE INDUSTRY

STRONG PERFORMANCE AT A COMPACT PRICE



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.

- › 90 - 420 bar
- › 85 - 750 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

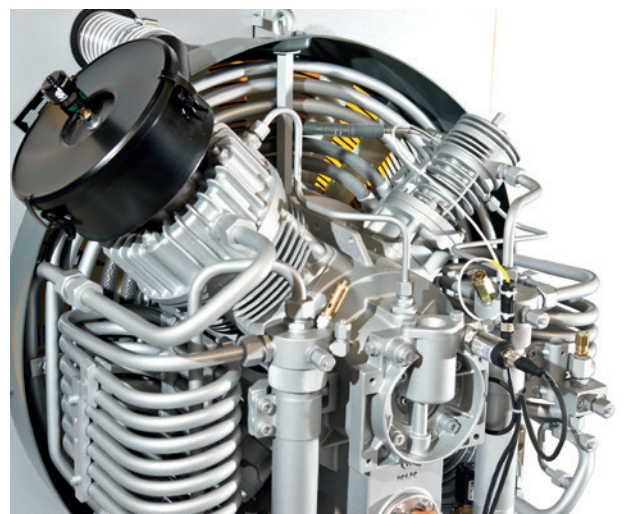
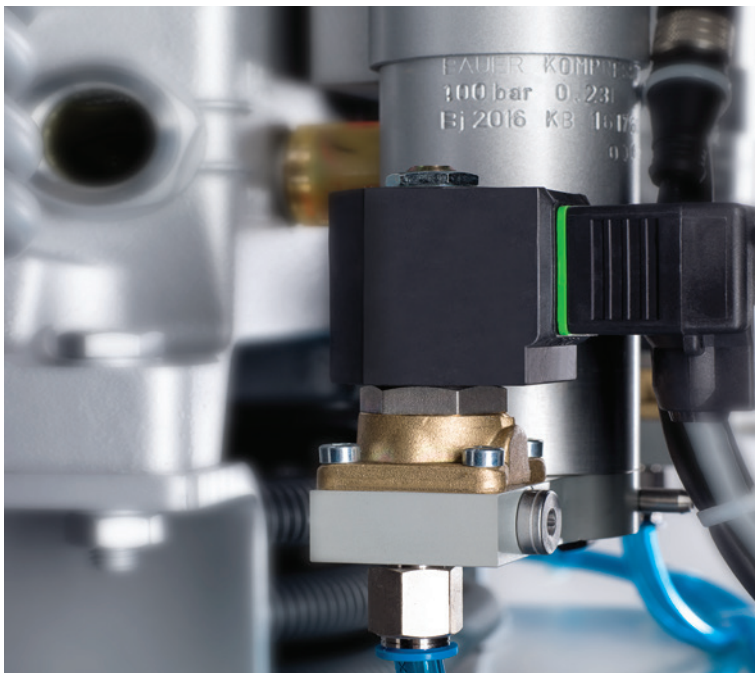
The new B-APP combines with B-CONTROL to transform your smartphone into an advanced remote control unit for the compressor. The smartphone display enables operating data for the system to be accessed in real time and operation control commands to be entered.

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



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.

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



The new B-APP uses WiFi to communicate with your compressor system¹. 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.

- › Integrated dealer search rapidly locates your nearest BAUER service partner worldwide for all your maintenance and parts needs.
- › Direct link to BAUER's YouTube channel with videos providing service instructions and advice plus product information.
- › Practical tools for unit conversion and calculation of filter cartridge life, condensate volume and filling times.

¹ 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.

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 (H₂O) and oil. They are available as integrated and external models.
- › **Particulate filter:** Reliable extraction of particulates in compliance with ISO 8573 Class 2.
- › **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:** The intake pressure reducer ensures the compressor's gas intake is at the appropriate pressure, based on the existing gas pressure and required intake pressure.
- › **60-litre condensate vessel:** A central collection reservoir for condensate produced during compression, which separates condensate and air. An integrated floating switch monitors the optimum filling level.
- › **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. BAUER storage systems are available for 330, 365 and 420 bar pressure levels.
- › **Exhaust air shaft:** For installation of SUPER SILENT systems in containers, housings or operating rooms.



TECHNICAL DATA

PE-VE 365/420 BAR

Model	F.A.D. ¹			Max. operating pressure ²		No. of stages	Speed	Motor power	Power consumption ¹	Net weight approx.	
	l/min	m³/h	cfm	bar	psig					kg	lbs
PE-VE SERIES, 90 - 365 bar											
PE 100-3-VE	85	5.1	3	365	5300	3	900	3	2.2	270	595
PE 100-4-VE	125	7.5	4.4	365	5300	3	1270	4	3.3	275	610
PE 120-4-VE	170	10.2	6	365	5300	3	1200	4	3.7	275	610
PE 120-5.5-VE	215	12.9	7.6	365	5300	3	1470	5.5	4.7	290	640
PE 120-7.5-VE	260	15.6	9.2	365	5300	3	1800	7.5	6.5	305	675
PE 12.14-11-VE ³	350	21	12.4	365	5300	4	1800	11	9.4	325	720
PE 150-11-VE	500	30	17.7	365	5300	4	1230	11	10.2	350	770
PE 180-15-VE	620	37.2	21.9	365	5300	4	1440	15	14	365	805
PE-VE SERIES, 350 - 420 bar											
PE 12.14-7.5-VE-420 ³	300	18	10.6	420	6100	4	1450	7.5	6.9	300	660
PE 18.1-11-VE-420	450	27	15.9	420	6100	5	1400	11	10.4	380	840
PE 18.1-15-VE-420	515	30.9	18.2	420	6100	5	1490	15	13	380	840

PE-VE BOOSTER 365 BAR

Model	F.A.D. ¹			Intake pressure	Max. operating pressure ²		No. of stages	Speed	Motor power	Power consumption ¹	Net weight approx.	
	l/min	m³/h	cfm	bar _ü	bar	psig		rpm	kW	kW	kg	lbs
PE-VE SERIES, 215 - 800 l/min, 90 - 365 bar												
PE 12.2-5.5-VE	200	12	7.1	5	365	5300	2	1230	5.5	3.3	290	640
	295	17.7	10.4	7	365	5300	2	1230	5.5	4.0	290	640
	390	23.4	13.8	9	365	5300	2	1230	5.5	4.6	290	640
	475	28.5	16.8	11	365	5300	2	1230	5.5	5.1	290	640
PE 15.3-11-VE	510	30.6	18	7	365	5300	2	1140	11	6.6	350	770
	590	35.4	20.8	8	365	5300	2	1140	11	7.1	350	770
	670	40.2	23.7	9	365	5300	2	1140	11	7.7	350	770
	750	45	26.5	10	365	5300	2	1140	11	8.2	350	770
PE 15.41-15-VE	430	25.8	15.2	2	365	5300	3	1350	15	9.0	365	805
	590	35.4	20.8	3	365	5300	3	1350	15	10.6	365	805
	750	45	26.5	4	365	5300	3	1350	15	12.1	365	805

¹ Volume flow rate according to ISO 1217; power consumption at max. final pressure under defined framework conditions. Different ambient conditions will result in differing performance values

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

³ Please note that PE 12.14 is not suitable for compressing nitrogen.



INTERESTED IN OUR PRODUCTS?

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

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