

# POSEIDON EDITION

COMPRESSORS FOR SPORTS & SAFETY APPLICATIONS



SPORTS & SAFETY



A photograph of an underwater tunnel with a curved glass ceiling and wooden side panels. At the end of the tunnel, a circular logo is visible, featuring a stylized figure and the text 'Y-40 THE DEEP JOY'. The water is clear and blue, with light rays filtering through from above.

**USER-FOCUSED FEATURES,  
UNCOMPROMISING QUALITY**

**FOR MORE INFORMATION**

about our product programme and the products shown here,  
visit our website at [www.bauer-kompressoren.de](http://www.bauer-kompressoren.de)

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# COMPANY

## BAUER – PASSIONATE ABOUT THE PERFECT SOLUTION

BAUER stands for a long tradition of mechanical engineering. As early as 1888, Johann Bauer, a blacksmith in the Bavarian village of Arnstorf, founded an agricultural machinery factory. In 1946, his son Hans Bauer launched a post-war German success story. Bauer started by developing low-pressure compressors, quickly recognising the potential for novel high-pressure compression technology. Accordingly, in the 1960s BAUER KOMPRESSOREN rose to become the global leader in the manufacture of breathing air compressors, especially in the area of scuba diving and fire fighting.

Then as now, the cornerstone of our company's success and the springboard for our global expansion are our passion for developing the best solution, in terms of both technology and costs, and our high quality standards. Today, BAUER KOMPRESSOREN operates a global network of companies and is represented by its subsidiaries in many high-growth markets where German quality is especially appreciated.

BAUER KOMPRESSOREN supplies one-stop state-of-the-art solutions tailored to your needs in the Sports & Safety sector – from compression and purification to air, breathing air and nitrox distribution.

Pure breathing air is an essential part of equipment. Compressed and purified in our top-level systems, it protects the lives, health and property of our customers in all situations. All our employees are driven by their passion for providing 100% safety and security for people all over the world – our motivation for performance and success.

We certify pure breathing air to EN 12021:2014 standards. In addition, our BAUER PureAir Certification provides divers with guidance in selecting a trustworthy filling station for pure breathing air and certify filling stations for firefighting or safety technology which fulfil the strict criteria of PureAir Gold or Silver certification.



For more information, visit [bauerpureair.com](http://bauerpureair.com).

Place your trust in BAUER KOMPRESSOREN and the outstanding quality and safety of the global market leader for breathing air systems.

# APPLICATIONS

## DIVING

Breathing air is the most important part of diving equipment – in both scuba diving and professional diving.

A safe supply of pure breathing air for the diver is therefore the top priority for BAUER KOMPRESSOREN. This applies to systems from portable breathing air compressors for private use to professional system installation in diving centres.



## FIRE FIGHTING

In the event of an emergency, whether at the heart of a fire or in contaminated environments, fire fighters must be able to rely on everything – their team members, their protective equipment and, above all, an absolutely reliable supply of breathing air. BAUER KOMPRESSOREN offers tailored unit concepts. Whether the unit is located at the fire station for rapid, reliable deployment or is on site as a mobile unit in the rescue vehicle, our systems provide assurance. 24 hours a day – 365 days a year.



## SHIPPING

Once on the high seas, ships become self-sufficient systems. Every technical device on board has to function completely reliably. Thanks to their excellent quality, systems and accessories from BAUER KOMPRESSOREN easily outperform the specified technical requirements regarding safety and reliability and are confirmed and certified by reputable independent inspection companies including Germanischer Lloyd and DNV.



## DEFENCE

Many things we are accustomed to in our daily lives, such as navigation systems, diving equipment and tracked vehicles, were originally developed for military purposes. Whether land, sea or air applications, the products used must be absolutely reliable and safe. BAUER KOMPRESSOREN supplies individual solutions tailored to customers' needs.





Courtesy of DIVEX Ltd.

## MEDICAL ENGINEERING

For treatment purposes patients are exposed to increased atmospheric pressure in pressure chambers, such as for divers following decompression accidents in order to protect them from the consequences of the 'bends'. Every minute counts – as does a totally reliable provision of pure, oxygen-enriched breathing air. Hospitals use pressure chambers for hyperbaric oxygen therapy (HBOT). BAUER KOMPRESSOREN supplies the breathing air required.



## PAINTBALL/SHOOTING SPORTS

Today, air guns used by sports marksmen and markers of paintball teams are powered by air from high-pressure cylinders. The precision mechanisms of this sports equipment require pure and dry compressed air, which is provided by compressors from BAUER. Our special user-friendly filling devices feed the required precisely measured quantity of air into the cartridges quickly and safely.



## MOTOR SPORTS

Whether DTM or Formula 1, motor racing is a highly competitive sport where fractions of a second make all the difference – particularly in the pits, where the interplay between driver and service team can clinch victory or defeat. Throughout this fascination with speed, reliable interaction of all the high-quality elements involved is essential. Our compressor systems assure complete, reliable and precise air logistics; car jacks and tools are operated by compressed air; and our tailored storage solutions ensure that even in case of demand peaks, the required air quantity is always available.

# PERFORMANCE OVERVIEW

## OUTSTANDING COMPRESSOR SOLUTIONS TO MEET ALL YOUR NEEDS

BAUER KOMPRESSOREN filling systems ensure optimum availability and safety in reliable supply of pure breathing or compressed air for all applications, in compliance with international air quality standards such as DIN EN 12021:2014 (Breathing Air Standard).

BAUER KOMPRESSOREN produces high-pressure compressors for air, breathing air and nitrox compression, using state-of-the-art technology in outstanding quality. With decades of experience, we have gathered extensive expertise in the fields of development, production and application.

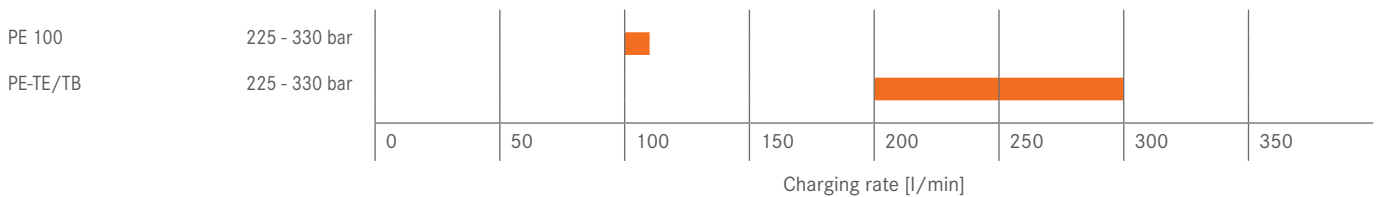
In the Sports & Safety sector, we develop and manufacture mobile compressors and compressors for stationary use, optionally supplied with sound-insulating housing. Select the high-pressure compressor with the right drive system, maximum operating pressure and required output for your needs from our extensive product range.

BAUER POSEIDON EDITION breathing air compressors provide an outstanding price/performance ratio and excellent quality.

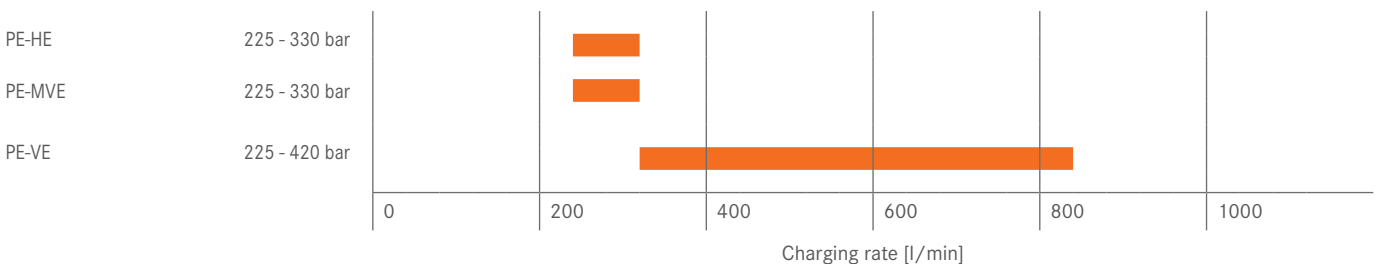
The POSEIDON EDITION series was designed for straightforward, easy operation and combines proven BAUER core components with rugged, simple housing.

They naturally feature BAUER's hallmark durability, high safety levels and pure breathing air quality in compliance with international standards.

### MOBILE COMPRESSORS | 225 – 330 BAR



### STATIONARY COMPRESSORS | 225 – 330 – 420 BAR





# COMPRESSOR BLOCK

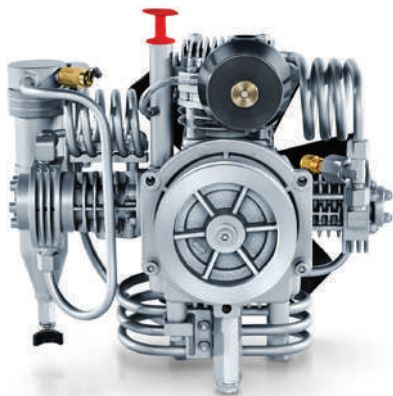
Each and every one of our compressor blocks contains decades of experience and the expertise of our Testing and Development Centre. BAUER compressor blocks have built a legendary reputation on their reliability and long service life. They are the result of advanced design, intelligent in-depth solutions, the use of exceptionally high-quality materials and outstanding production quality.

## PE 100 COMPRESSOR BLOCK

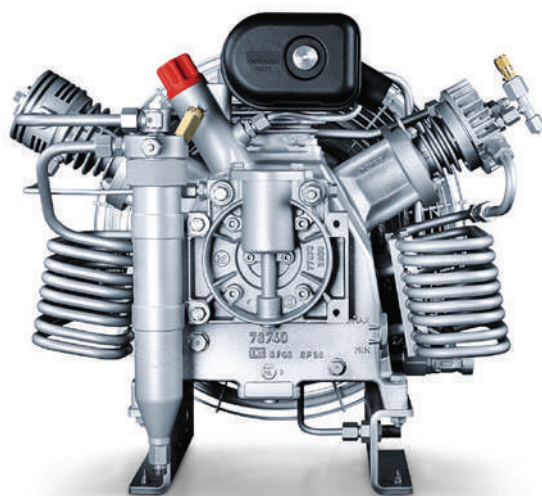
- › Minimised operating costs: long oil change intervals, wear-resistant piston rings and optimised cooling system significantly reduce running costs.
- › Oil changes are made simple by the easily accessible oil filler neck. A dipstick is supplied for easy, reliable oil level checks.
- › Benefit from our years of experience: over 100,000 compressor blocks sold in this supply volume range.

## COMPRESSOR BLOCKS FOR PE-TE/TB, PE-HE, PE-MVE AND PE-VE SERIES

- › With industrial roller bearings, proven thousands of times over.
- › Extra-long operating life: cylinders are plasma-nitrided and plateau-honed for outstanding surface hardness. The final-stage cooler has stainless-steel ribs for maximum cooling efficiency.
- › Low operating costs: wear-resistant piston rings in the final stage keep the running costs of the unit low. As a further advantage, a highly reliable oil lubrication system for the cylinder faces ensures low energy consumption and maximises service life.



PE 100 Compressor Block



IK 120 Compressor Block  
(used in PE-TE/TB, -HE, -MVE and -VE)

# AIR AND BREATHING AIR PURIFICATION SYSTEMS

Whether you rely on pure breathing air to DIN EN 12021:2014 standards as a diver or fire fighter or seek optimised pure compressed air for sports applications such as filling paintball cylinders, BAUER offers over 70 years of experience in air purification, in-depth research and tough material testing, adding up to outstanding quality and maximum safety.

In highly compressed air and gas purification, our aim is to minimise contamination from moisture, CO, CO<sub>2</sub>, oil and particulates. As the market leader, BAUER KOMPRESSOREN supplies air purification systems that have built an excellent reputation worldwide for their cost-effectiveness and quality.

We supply a range of purification systems for many different applications: filter cartridge systems, regeneration and refrigeration dryers and an array of monitoring devices for ensuring compliance with specific air quality threshold values.

**BAUER KOMPRESSOREN IS CERTIFIED FOR THE MANUFACTURE OF CATEGORY 4 PRESSURE EQUIPMENT UNDER THE EU PRESSURE EQUIPMENT DIRECTIVE DGRL2014/68/EU.**

## P-PURIFICATION SYSTEMS (FILTER CARTRIDGE SYSTEMS)

This range is the undisputed classic among BAUER's purification systems. Its major benefits include rapid and straightforward cartridge change, minimum downtime and cost-effective operation.

BAUER P-Purification Systems reliably remove hazardous substances and deliver pure breathing air for your use. A P-Purification System is supplied as standard with every BAUER Sports and Safety compressor.

Depending on the filter type, P-Purification Systems adsorb residual moisture, oil vapour, traces of hydrocarbon cases and carbon monoxide from the compressed air. BAUER P-Purification Systems not only meet, but actually exceed all requirements of the DIN EN 12021:2014 Breathing Air Standard<sup>1</sup>.

### DIN EN 12021:2014-07 Breathing Air Standard<sup>2</sup>:

#### Threshold values

Oxygen (O <sub>2</sub> )	21 % ± 1 %
Carbon monoxide (CO)	5 ppm
Carbon dioxide (CO <sub>2</sub> )	500 ppm
Oil	0.5 mg/m <sup>3</sup>
H <sub>2</sub> O	25 mg/m <sup>3</sup>

<sup>1</sup> Based on due maintenance and installation of the system in accordance with the operating manual and only where CO<sub>2</sub> concentrations in intake air do not exceed the predefined standard values. Local TLVs are not considered.

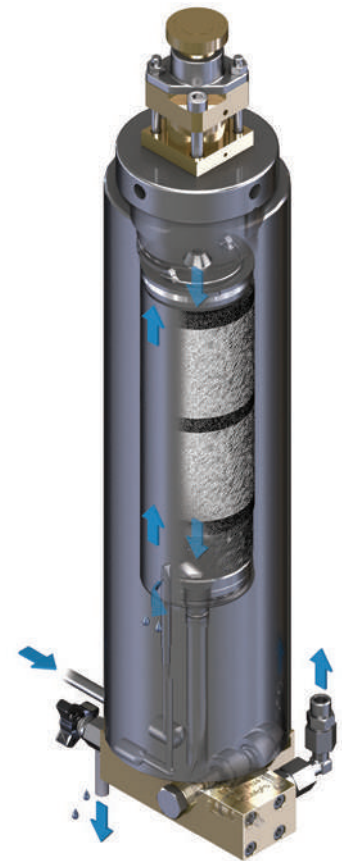
<sup>2</sup> The table shows the limits for breathing air in the definition of the DIN EN 12021:2014-07 Breathing Air Standard.

In addition to the P-Purification Systems, we supply the following air purification and monitoring systems:

## PURIFICATION

- › B-KOOL – Refrigeration dryer that can extend filter cartridge life for ultra-cost-effective operation.
- › AERO-GUARD – Reduces CO<sub>2</sub> content of intake air.
- › SECCANT – Regeneration dryer – the safe, low-maintenance way to dry air, boosting charging rates and extending operating life.

**In addition to the integrated P-Purification Systems supplied as standard, you have the option of selecting a larger filter system for PE-TE/TB, PE-HE and PE-MVE Series systems to allow longer cartridge life.**



P 31 Purification System

## MONITORING

- › B-TIMER – Calculates filter lifetime and displays filter cartridge change warning, maintenance requirements and operating hours.
- › B-SECURUS – Monitors filter cartridge saturation while reliably measuring moisture in the cartridge to calculate remaining cartridge life.
- › B-DETECTION PLUS – Online gas measurement systems for continuous monitoring of compliance with DIN EN 12021:2014 Breathing Air Standard<sup>1</sup>.
- › PureAir Silver and PureAir Gold Certification – BAUER's seal of quality for your pure breathing air.

For more information on air and gas purification by BAUER, see our brochure "BAUER Accessories" and visit [www.bauer-kompressoren.de](http://www.bauer-kompressoren.de)



B-SECURUS: Measures cartridge saturation and displays remaining cartridge life using a traffic light system.

<sup>1</sup> Optional monitoring of absolute humidity and total oil value, based on volatile organic compounds (VOCs) only, available for B-DETECTION PLUS.

## DRIVE SYSTEMS AND MOTORS

### V-BELT DRIVE

The low-maintenance V-belt drive enables the compressor block speed to be optimised regardless of the network frequency and motor type.

The compressors are in vertical or horizontal format depending on the model series. The stationary systems in the POSEIDON EDITION feature automatic adjustment of the V-belt tension.

Tension is ensured by the weight of the motor in vertical format (PE-MVE and PE-VE), and by use of a belt tensioning device (PE-HE) in horizontal format.

### MOTORS

Our PE 100 mobile system is also available with three-phase AC motor, single-phase AC motor or petrol engine for operation at any locations.



Interior view of PE-VE: Adjustment of the V-belt is not necessary because of the vertical format and suspended motor mounting.



PE-HE: V-belt adjustment is likewise unnecessary in this horizontal model by use of a belt tensioning device.

# AUTOMATION AND COMPRESSOR CONTROL

## AUTOMATION

All separators in the compressor must be continuously drained during compressor operation to remove the aggressive oil/water mixture (condensate) produced by the compression process.

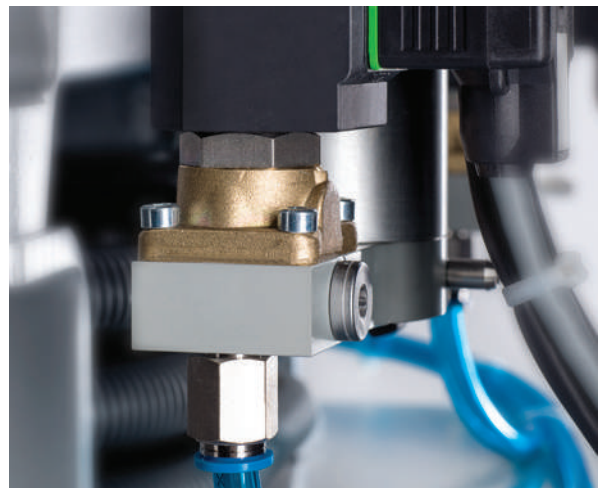
POSEIDON EDITION mobile compressors are supplied with a manual condensate drain system as standard. An automatic condensate drain system and electronic control unit can be integrated into compressors from the PE-TE/TB series upwards. The compressor then operates in semi-automatic mode, i.e. no operator intervention is necessary during filling and the compressor automatically shuts down when the system reaches final pressure.

This mode saves the operator significant time, effort and costs. The control unit also displays operating hours and has a warning light for incorrect rotation direction.

Compressor control units for the PE-TE Series (optional) and PE-HE Series as well as PE-MVE Series (integrated as standard) are optimised for straightforward and user-friendly operation.



Easy-to-operate control unit for PE-HE and PE-MVE with phase monitoring, main switch, operating hours counter and on/off switch.



Save time with automatic compressor operation: The newly developed and patented B-DRAIN automatic condensate drain system.

## B-TIMER

The patented mini-computer B-TIMER can also be used with mobile systems without a control unit<sup>1</sup>. B-TIMER shows operating hours and the filter cartridge saturation level, has a flashing light to warn of approaching cartridge changes and displays the order number of the required filter cartridge, ensuring that filter cartridge life is maximised.



B-TIMER: Calculates and displays remaining filter cartridge lifetime and any maintenance required.

<sup>1</sup> Not available with PE 100.

## B-CONTROL MICRO



**B-SECURUS segment display:** clear prediction of filter cartridge saturation level

**Remaining time to fill:**  
Displays time remaining until your pressurised air cylinders are completely filled

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>. It is therefore also optimum for operation with storage solutions.

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
- › Software is simple to update using an SD card
- › Unique: display of remaining time to fill your pressurised air cylinder
- › Improved filter monitoring: if a B-SECURUS filter monitoring system is installed in your compressor system, the start display already shows predicted results such as current cartridge saturation level and cartridge change date
- › Ethernet connection for communication with the B-APP

## B-APP

**NEW!** 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.

<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.

<sup>3</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.



## MOBILE COMPRESSORS

### PE 100 AND PE-TE/TB SERIES

**Our mobile POSEIDON EDITION compressors combine proven core components with user-optimised features.**

The PE 100 is by far the most compact and lowest-weight system in the PE Series. Available in three drive types (petrol engine, three-phase motor or single-phase AC motor), it is ideal for a wide range of applications on land or sea and in vehicles.

Compact in design yet delivering charging rates of up to 300 l/min, PE-TE/TB Series compressors are easy to transport and load into vehicles. The oil pump allows the compressors to be operated at inclinations of up to 15 degrees, so that this series is also suitable for shipping applications.

# PE 100

## RUGGED TECHNOLOGY – COMPACT FOOTPRINT

Ruggedness, reliability, a wide range of applications and compact portability are all features of the PE 100.

Its range of applications is virtually unlimited. Available in three drive types with petrol engine, three-phase or single-phase AC motor, it is ideal for many uses, such as a breathing air compressor for diving groups or fire fighters or for rapid filling of cartridges for sports shooting or paintball cylinders.

The PE 100-TW sports shooting version has a non-bleed filling valve including adapter for filling cartridges and was designed specifically for sports shooting applications.

In the version with petrol engine, the PE 100 can be operated without an external power source in even the most remote locations. In the single-phase AC motor version, it can be powered from a household power supply.

- › 100 l/min
- › 225 or 330 bar
- › 2.2 kW (4.2 kW petrol version)
- › Available with three-phase motor, single-phase AC motor or petrol engine

### FEATURES

- › Compact, low-weight system, easily transportable
- › The P 11 purification system designed especially for the PE 100 supplies pure breathing air in compliance with DIN EN 12021:2014<sup>1</sup>
- › Many possible applications



PE 100, 300 bar model

**FOR ANYONE THAT WANTS TO RELY ON PURE, SAFE BREATHING AIR IN MOBILE APPLICATIONS.**

## OPTIONAL FEATURES

- › Motor protection switch for PE 100-TE
- › Intake telescope (standard with PE 100-TB) or intake manifold for attaching a suction hose

<sup>1</sup> Based on due maintenance and installation of the system in accordance with the operating manual and only where CO<sub>2</sub> concentrations in intake air do not exceed the predefined standard values. Local TLVs are not considered.



## TECHNICAL DATA

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
PE 100-TB	100	3.5	330	4,780	P 11	3	2,300	Petrol engine 4-stroke	4.2	42	78 x 34 x 42
PE 100-TE	100	3.5	330	4,780	P 11	3	2,300	Three-phase 400 V, 50 Hz	2.2	44	66 x 35 x 42
PE 100-TW	100	3.5	330	4,780	P 11	3	2,300	Single-phase 230 V, 50 Hz <sup>3,4</sup>	2.2	44	66 x 35 x 42
PE 100-TW <sup>2</sup> Sports Shooting Version	100	3.5	330	4,780	P 11	3	2,300	Single-phase 230 V, 50 Hz <sup>2</sup>	2.2	44	66 x 35 x 42

1 Measured by tank filling (10 l) from 0 - 200 bar / 2900 psig, ± 5%.

2 Filling valve without automatic vent including adapter for connecting adapters cartridges.

3 Plug dimension: Schuko plug. Plug only for units with 230 V / 50 Hz.

4 With integrated motor protection switch (only for 220/230/240 V).



## PE-TE/TB

### MOBILE COMPRESSOR SYSTEMS WITH OPTIMISED FEATURES FOR USE IN VEHICLES AND SHIPPING

The PE-TE/TB series is designed for high FAD volumes up to 300 l/min in mobile use, and is available with a choice of electric or petrol drive. The systems are thus suitable for private use and commercial filling station operations. With compact design and functional carry frame, these compressors are easy to transport and stow in vehicles.

Their integrated oil pump enables them to be operated at inclinations of up to 15 degrees, so that this series is particularly suitable for shipping applications.

Also included is the BAUER P 21 Purification System (P 31 with PE 250-TB and PE 300-TB). This sophisticated air purification system with integrated oil and water separator and pressuriser valve reliably prevents users from inhaling air impurities<sup>1</sup> and provides effective protection from icing up when cartridges are changed regularly.

- › 200 - 300 l/min
- › 225 or 330 bar
- › 4 – 7.5 kW (8.8 kW petrol version)

#### FEATURES

- › High FAD, yet low in weight and easy to transport
- › Ideal for marine use, with interstage and afterstage cooler in stainless steel. Highly corrosion-resistant
- › Optionally available with user-friendly ultra-rugged B-TIMER mini-computer for filter cartridge monitoring



PE 300-TE with optional control unit

#### OPTIONAL FEATURES

- › Additional filling device for 225 or 330 bar
- › Switchover device for 225/330 bar
- › Larger Purification System P 31 (PE 200-TB, PE 250-TE and PE 300-TE only) or P 41 (PE 250-TE/TB, PE 300-TE/TB) only) for longer cartridge life
- › B-TIMER filter cartridge lifetime monitoring system
- › B-SECURUS filter cartridge saturation monitoring system (only possible with P41 and electric motor)
- › Electronic control unit (only with electric motor)
- › B-DRAIN automatic condensate drain system including automatic shut off when final pressure is reached

<sup>1</sup> Based on due maintenance and installation of the system in accordance with the operating manual and only where CO<sub>2</sub> concentrations in intake air do not exceed the predefined standard values. Local TLVs are not considered.

## TECHNICAL DATA

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
PE 200-TE	200	7	330	4,780	P 21	3	1,250	Three-phase 400 V, 50 Hz <sup>2</sup>	4.0	120	110 x 50 x 57
PE 200-TB	200	7	330	4,780	P 21	3	1,250	4-stroke petrol engine	5.9/6.6 <sup>3</sup>	130	127 x 59 x 57
PE 250-TE	250	9	330	4,780	P 21	3	1,450	Three-phase 400 V, 50 Hz <sup>2</sup>	5.5	130	110 x 50 x 57
PE 250-TB	250	9	330	4,780	P 31	3	1,450	4-stroke petrol engine	6.6	135	127 x 59 x 65
PE 300-TE	300	10	330	4,780	P 21	3	1,800	Three-phase 400 V, 50 Hz <sup>2</sup>	7.5	140	110 x 50 x 57
PE 300-TB	300	10	330	4,780	P 31	3	1,800	4-stroke petrol engine	8.7	145	127 x 59 x 65

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

2 Plug dimension: Schuko plug 16 A.

3 6.6 kW petrol engine with option automatic condensate drain / automatic shutdown function





## STATIONARY COMPRESSORS

### PE-HE, PE-MVE AND PE-VE SERIES

**POSEIDON EDITION stationary compressors are designed specifically for individual needs and performance requirements in the breathing air sector.**

They are supplied with an integrated purification system and intuitive controls, reflecting our priority to optimise ease of operation. The PE-HE, PE-MVE and PE-VE Series have features optimised for users' needs, with BAUER's hallmark quality and reliability for the utmost safety in stationary operation.

## PE-HE

### AMONG THE MOST COMPACT STATIONARY COMPRESSOR SYSTEMS IN ITS PERFORMANCE CLASS

The POSEIDON EDITION PE 250-HE and PE 300-HE horizontal compressors from BAUER KOMPRESSOREN are among the most compact stationary systems in their class.

The integrated P 31 Purification System provides reliable breathing air purification in compliance with DIN EN 12021:2014<sup>1</sup>.

Thanks to the space-saving arrangement of compressor block and drive, the rugged and durable units in the HE series take up next to no floor space.

They are also supplied with an automatic condensate drain system and the user-friendly BHW-CONTROL control unit as standard.

- › 250 - 300 l/min
- › 225 or 330 bar
- › 5.5 - 7.5 kW

#### FEATURES

- › With rugged compressor block and piston rings of wear-proof special plastic
- › Easy-to-use compressor control
- › Small footprint, in compact horizontal design

#### OPTIONAL FEATURES

- › 2-way filling device with hose coupling / 4-way filling device with hose coupling or direct coupling
- › Two pressure ranges 225 and 330 bar (pressure reducer)
- › Large-scale P 41 Purification System for longer cartridge life
- › B-TIMER filter cartridge lifetime monitoring system
- › B-SECURUS filter cartridge saturation monitoring system
- › AERO-GUARD CO<sub>2</sub> reduction system
- › External BAUER filling panels
- › BAUER high pressure storage system



PE 300-HE with two filling hoses (optional)

<sup>1</sup> Based on due maintenance and installation of the system in accordance with the operating manual and only where CO<sub>2</sub> concentrations in intake air do not exceed the predefined standard values. Local TLVs are not considered

## TECHNICAL DATA

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
PE 250-HE	250	9	330	4,780	P 31	3	1,450	Three-phase 400 V, 50 Hz <sup>2</sup>	5.5	220	110 x 69 x 99
PE 300-HE	300	10	330	4,780	P 31	3	1,800	Three-phase 400 V, 50 Hz <sup>2</sup>	7.5	230	110 x 69 x 99

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

<sup>2</sup> Plug dimension: 16 A



## PE-MVE

### SPACE-SAVING ALL-IN-ONE SOLUTION AT ATTRACTIVE PRICE FOR EXTRA-LOW-NOISE OPERATION

The PE-MVE is BAUER's compact all-in-one solution, offering high quality at outstanding value for money. The unit is in vertical format and ideal for all applications requiring medium charging rates. Supplied as standard with Super Silent housing, the unit provides for a variety of installation options even in noise-sensitive environments. The soundproof PE-MVE is ideally suited for applications that prioritise reliability and long operating life combined with low operating costs.

It is also supplied with an automatic condensate drain system and the user-friendly BHW-CONTROL control unit as standard; the fully automatic BHW-CONTROL also supports storage cylinder filling.

#### FEATURES

- › **Silent housing as standard: With low noise level for use in working environments where noise is a key concern**
- › **Easy-to-use compressor control, optional fully automatic**
- › **Integrated filling device: Supplied with 2 kinkproof filling hoses as standard**
- › **Ultra-compact dimensions for installation where space is at a premium**

- › 250 - 300 l/min
- › 225 or 330 bar
- › 5.5 - 7.5 kW

#### OPTIONAL FEATURES

- › Large-scale P 41 Purification System for longer cartridge life
- › B-TIMER filter cartridge lifetime monitoring system in combination with P 31
- › B-SECURUS filter cartridge saturation monitoring system in combination with P 41
- › Fully automatic compressor control
- › External air intake over roof
- › BAUER high pressure storage system
- › Automatic selector unit

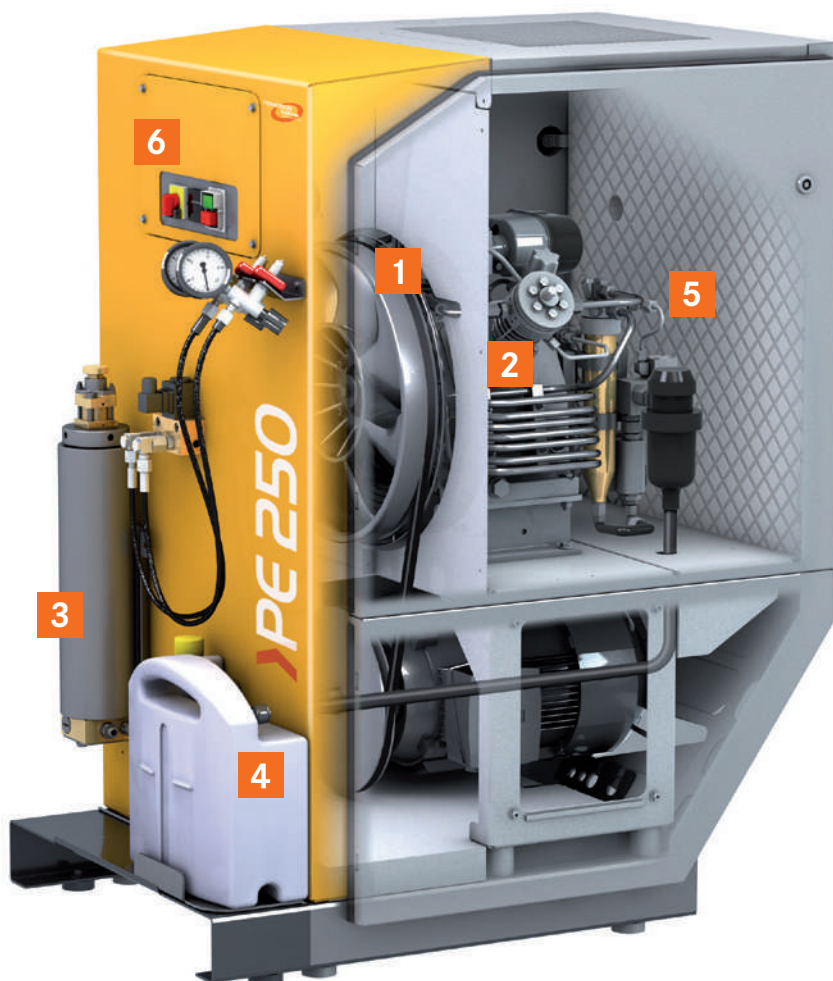


## TECHNICAL DATA

Type	Charging rate <sup>1</sup>		Operating Pressure max.		Purification System	Number of Stages	Speed approx.	Drive and Motor Power		Net Weight approx.	Dimensions L x W x H
	l/min	cfm	bar	psig				Motor	kW		
PE 250-MVE	250	9	350	5,000	P 31	3	1,470	400 V, 50 Hz <sup>2</sup>	5.5	250	104 x 75.5 x 132
PE 300-MVE	300	10	350	5,000	P 31	3	1,800	400 V, 50 Hz <sup>2</sup>	7.5	260	104 x 75.5 x 132

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

<sup>2</sup> Plug dimension: 16 A



- 1** FANWHEEL
- 2** COMPRESSOR BLOCK
- 3** P 31 PURIFICATION SYSTEM
- 4** CONDENSATE COLLECTING TANK
- 5** SUPER SILENT HOUSING
- 6** BHW-CONTROL



# 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.

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
- › AERO-GUARD CO<sub>2</sub> reduction system
- › BAUER high pressure storage system
- › Automatic selector unit
- › External BAUER filling panel



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

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

## 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				Motor	kW		
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	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 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				Motor	kW		
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

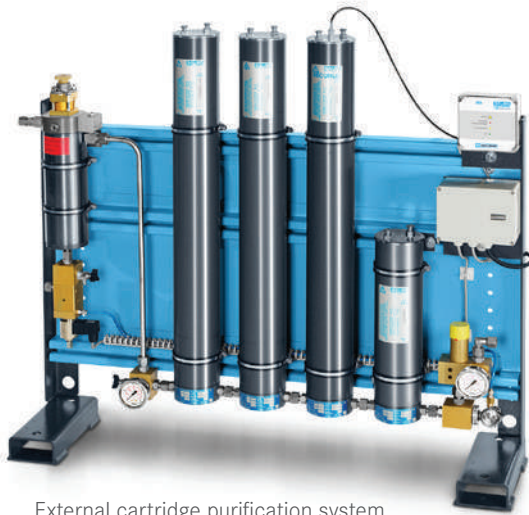
5 Plug dimension: 32 A

## ACCESSORIES

BAUER KOMPRESSOREN supplies an extensive range of accessories for its compressor systems.

From air purification to control, storage, gas measurement and distribution – intelligent BAUER accessories enable you to align your system precisely to your needs, enhancing its cost-effectiveness and economical operation or expanding its range of applications.





External cartridge purification system



AERO-GUARD

## AIR AND GAS PURIFICATION

- › AERO-GUARD CO<sub>2</sub> Adsorber – reduces CO<sub>2</sub> in intake 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



B-KOOL



SECCANT



B 160 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

- › External filling panels – for wall mounting, with optional remote control unit
- › B-SAFE Safety 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

B-SAFE



External filling panel



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.

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.

A man in a blue shirt is focused on working on a piece of industrial machinery. He is looking intently at a component of the machine, which has a blue cable connected to it. The background shows a factory environment with various pipes and equipment.

## SERVICE IS A KEY COMPONENT OF OUR PHILOSOPHY.

BAUER KOMPRESSOREN is there for you all over the world. With 21 subsidiaries, over 50 regional representatives and a widely distributed service network, we offer our customers speedy contact at all times – as well as a comprehensive range of services from spare-part delivery and service agreements to a broad range of training courses. Our goal is to be in a class of our own – for both our products and our services.

- › Service agreements
- › Modernisation
- › Remote maintenance
- › Spare parts
- › System rental

# ACCEPTANCE AND SERVICES

## MANUFACTURING IS ONLY PART OF WHAT WE DO

### ISO 9001 CERTIFICATION

- › BAUER assures consistent maximum product quality by applying extensive quality control measures during and after production in line with DIN EN ISO 9001.

### ACCEPTANCE TESTING

- › A factory acceptance test (FAT) or site acceptance test (SAT) in the presence of the customer or independent certifying body can be performed in addition to the standard BAUER final test.
- › Many BAUER compressors can also be produced in compliance with other standards, e.g. ASME, KHK, ATEX etc.

### PACKING & PRESERVATION

- › Our compressors are packed ex works for transport by truck or air freight. We offer appropriate packing designs tailored for shipping, transport to tropical regions or long storage periods as well as short or long-term preservation.

### INSTALLATION

- › Professional installation is a vital basic factor in safe operation of high-pressure systems. Our global network of branches and qualified partners provides smooth, trouble-free support in planning and implementation, wherever you are.

### TRAINING

- › To ensure your staff are always up-to-date, we provide a comprehensive range of practical training courses for our customers in our own BAUER ACADEMY, where users and operators can benefit directly from our expertise.

### FOR MORE DETAILS

and more accessories, see our service brochures and visit [www.bauer-kompressoren.de/en/service-support](http://www.bauer-kompressoren.de/en/service-support).



**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)



**BAUER KOMPRESSOREN POSEIDON EDITION EN**  
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01.2020

Subject to technical change without notice