

Technical Specification

PE 100-TB | PE 100-TE | PE 100-TW

Mobile high pressure compressor für breathing air



PE 100-TE

Made by



GENERAL

Medium	Air
Intake pressure	Atmospheric
Filling pressure	PN200 / PN300
Nominal pressure	225 bar / 330 bar
Working pressure	220 bar / 320 bar
Permissible ambient temperature range	+5...+45°C
Permissible altitude	0...2000 m AMSL
Max. permissible tilt	5°
System design	Open
Standard operating voltage	400 V; 50 Hz
Other operating voltage	On request
Compressor oil standard	Synthetic
Oil change interval	Synthetic: every 2 years/ 2.000 h Mineral: 1x per year/ 1000 h
Finish	RAL 1028 (front) RAL 7024 (plate)

COMPRESSOR SYSTEM

	PE 100-TB	PE 100-TE	PE 100-TW
Charging rate ¹	100 l/min	100 l/min	100 l/min
Purification System	P 11	P 11	P 11
Cooling air flow, min.	1.512 m ³ /h	792 m ³ /h	792 m ³ /h
Sound pressure level ²	42 kg	44 kg	44 kg
Dimensions (LxWxH) ²	740 x 340 x 420 mm	660 x 340 x 420 mm	660 x 340 x 420 mm

¹ Measured during cylinder filling from 0-200 bar tolerance +/- 5% at + 20°C ambient temperature.

² Standard model. Weight and dimensions may vary depending on accessories.

Drive system:

	PE 100-TB	PE 100-TE	PE 100-TW
Type	Petrol 4-stroke	Three-phase	Mono-phase
Power	4,2 kW	2,2 kW	2,2 kW
Operating voltage / frequency ¹	-	400 V, 50 Hz	230 V, 50 Hz
Speed	3.600 1/min	2.850 1/min	2.850 1/min
Protection class	IP55 (TEFC)	IP55 (TEFC)	IP55 (TEFC)

¹ Different voltage / different frequency available at extra charge on request . .

STANDARD SCOPE OF SUPPLY

- **Compressorblock**

- Splash lubrication
- Micronic intake filter: 10 µm
- Aftercooler, air cooled, outlet temperature approx. 10-15 °C above cooling air temperature
- Intermediate separators after each stage (except 1st stage)
- Final separator for oil and water condensate after last stage
- Sealed safety valves after each stage
- TÜV approved final pressure safety valve
- Pressure maintaining and check valve after the final stage



Compressor block

Charging rate ¹	100 l/min
Speed	2.300 1/min
Number of stages	3
Number of cylinder	3
Cylinder bore 1st stage	60 mm
Cylinder bore 2st stage	28 mm
Cylinder bore 3st stage	12 mm
Stroke	24 mm
Direction of rotation (from flywheel side)	Links
Drive typ	Keilriemen
Intermediate pressure 1st stage	6 - 7 bar
Intermediate pressure 2st stage	40 - 60 bar
Amount of oil	360 ml
Oil pressure	4,5 bar ± 1,5 bar
Intake pressure	1,0 bar _a

¹ Measured during cylinder filling from 0-200 bar tolerance +/- 5% at + 20°C ambient temperature.

STANDARD SCOPE OF SUPPLY

▪ Purification System P 11



Purification System P 11

Purification system	P11
Operating pressure (Standard)	PN200/PN300
Operating pressure max. (PS)	330 bar
Pressure dew point	< -20 °C, entspricht 3 mg/m ³ bei 300 bar
Filter housing volume	0,57 l
DGRL 97/23/EG	Behälterkategorie II
Air purification capacity (at ambient temperature 20°C and 300 bar) ¹	130 m ³

¹ 1 When using a BAUER P 11 filter cartridge without hopcalite. When using a cartridge with CO-removal the air purification capacity is reduced by ca. 4 %.

▪ Filling device PN 200

Filling device	PN200
Nominal pressure (PN)	200 bar
Valve design	1 filling valve with integrated ventilation, with German cylinder connector G 5/8" DIN 477 and manometer, PN200
Filling hose	1 Unimam high pressure filling hose, 1 m length
International cylinder connector	1 international cylinder connection

▪ Filling device PN 300

Filling device	PN300
Nominal pressure (PN)	300 bar
Valve design	1 filling valve with integrated ventilation, with German cylinder connector G 5/8" DIN 477 and manometer, PN300
Filling hose	1 Unimam high pressure filling hose, 1 m length



International cylinder connection



Filling hose PN200 (black) PN300 (red)

OPTIONS

- ON/OFF switch with motor protection for PE 100



Motor protection switch

CORPORATE HEADQUARTERS

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Manufacturer

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