

Technical Specification

MARINER 250-E | MARINER 250-B

Mobile High Pressure Compressor for Compressed Air and Breathing Air



MARINER 250-B with optional equipment

Made by



ALLGEMEIN

Medium	Air
Intake pressure	atmospheric
Filling pressure	PN200 / PN300
Nominal pressure	225 bar / 330 bar / 350 bar
Working pressure	220 bar / 320 bar / 340 bar
Permissible ambient temperature range	+5...+45°C
Permissible altitude	0...1500 m AMSL
Max. permissible tilt	15°
System design	Open
Operating voltage standard	400 V; 50 Hz
Other operating voltage	On request
Compressor oil, standard	Synthetic
Oil change interval	Synthetic: every 2 years / 2,000 h Mineral: annually / 1,000 h
Finish	CYAN (front) , RAL 9006 (crash frame)

COMPRESSOR SYSTEM

	MARINER 250-E	MARINER 250-B
Charging rate ¹	250 l/min	250 l/min
Purification system	P31/350	P31/350
Cooling air flow, min.	1.980 m ³ /h	2.370 m ³ /h
Sound pressure level	83 dB(A)	87 dB(A)
Weight in kg ²	135 kg	120 kg
Dimensions (LxWxH) ²	1300 x 600 x 640 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

	MARINER 250-E	MARINER 250-B
Motor	Three-phase	Petrol
Power	5,5 kW	6,6 kW
Type of construction	B3	B3
Type	Three-phase Squirrel-Cage Motor	4-stroke petrol engine
Voltage/Frequency	400 V, 50 Hz	-
Speed	2,840 1/min	3,600 1/min
Protection class	IP55	IP55

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

STANDARD SCOPE OF SUPPLY

➤ Compressor block with following features

- Oil pump for forced-feed lubrication
- Micronic intake filter: 10 µm
- Intermediate coolers, air cooled,
- 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	IK120
Charging rate ¹	250 l/min
Speed	1,450 1/min
Number of stages	3
Number of cylinder	3
Cylinder bore 1st stage	88 mm
Cylinder bore 2nd stage	36 mm
Cylinder bore 3rd stage	14 mm
Stroke	40 mm
Direction of rotation (from flywheel side)	Left
Drive type	V-belt
Intermediate pressure 1st stage	Ca. 6 bar
Intermediate pressure 2nd stage	45 - 47 bar
Amount of oil	2,8 l
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.

➤ ON/OFF switch with motor Protection

Consisting of:

- On/off switch
- Cable, length 5 m
- CEE – plug (only with operating voltage 400 V / 50 Hz)

STANDARD SCOPE OF SUPPLY

➤ Purification System P31 - Filter with integrated oil and water separator

SCOPE OF DELIVERY

- Filter housing with long-life filter cartridge
- final mechanical separator for the removal of oil-/water condensate
- Final safety valve, fitted to filter housing
- Pressure maintaining / non return valve, fitting to filter housing



Purification System P31

Purification System	P31/350
Operating pressure (Standard)	PN200 / PN300
Operating pressure max	330 bar
Pressure dew point	< -20 °C, equivalent to 3 mg/m ³ at 300 bar
Piping connections	G 3/8" (condensate drain G1/4")
Filter housing volume	1,3 l
DGRL 79/23/EG	Caontainer category II
Air purification capacity (at ambient temperature 20°C and 300 bar) ¹	615 m ³

¹ When using a BAUER P31/350 filter cartridge without hopcalite. When using a cartridge with CO-removal the air purification capacity is reduced by ca. 26 %.

➤ Filling device PN200

Fülleinrichtung	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 connector

➤ Filling device PN300

Fülleinrichtung	PN300
Nennndruck (PN)	300 bar
Ventilausführung	1 filling valve with integrated ventilation, with German cylinder connector G 5/8" DIN 477 and manometer, PN300
Füllschlauch	1 Unimam Hochdruckfüllschlauch, 1 m Länge
Internationaler Flaschenanschluss	1 Unimam high pressure filling hose, 1 m length



International cylinder connection



Filling hose PN200 (black) and PN300 (red)

STANDARD SCOPE OF SUPPLY

➤ Crash frame incl. handles



crash frame incl. handles

OPTIONS

➤ P 41 Purification System - Filter with separate final oil and water separator

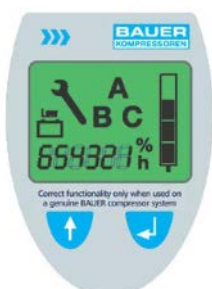


P 41 purification system
(picture similar)

Purification System	P41
Operating pressure (Standard)	PN200/PN300
Operating pressure max	330 bar
Pressure dew point	< -20 °C, equivalent to 3 mg/m ³ at 300 bar
Piping connections	G 3/8" (condensate drain G 1/4 ")
Filter housing volume	2,1 l
DGRL 79/23/EG	Vessel category II
Air purification capacity (at ambient temperature 20°C and 300 bar) ¹	1,595 m ³

¹ When using a BAUER P 41 filter cartridge without hopcalite. When using a cartridge with CO-removal the air purification capacity is reduced by ca. 8 %.

➤ B-TIMER



B-TIMER DISPLAY

OPTIONS

- **B-SECURUS filter cartridge monitoring system**



B-SECURUS Filter Cartridge Monitoring System

Only available with P 41 and only for MARINER 250-E!

- **Compressor control incl. automatic condensate drain system**



Compressor control



Automatic condensate drain system

For petrol version, the automatic condensate drain system is supplied without control!

- **Switch-over device PN 300 / PN 200**



Switch-over device

Only available with P 41 purification system!

OPTIONS

➤ Trolley



MARINER-E with trolley

CORPORATE HEADQUARTERS

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