Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

BAUER KOMPRESSOREN Certified Partner

Product Overview

Stationary High Pressure Compressor for Air and Breathing Air Compression
Types: MV150 | MV200 | MV250 | MV320

General	
Medium	Air
Intake pressure	atmospheric
Filling pressure	PN200 / PN300
Pressure setting, final pressure SIV	225 bar / 330 bar / 365 bar
Pressure setting, pressure sensor	220 bar / 320 bar / 350 bar
Permissible ambient temperature range	+5...+45°C
Permissible altitude[1]	0...1000 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	Every 2 years / 1,000 h
Finish	RAL 7024, RAL 9006, CYAN (front) / RAL 9006 (sides)

[1] Operating compressors in altitudes > 1000 m AMSL on request

Compressor System	MV150	MV200	MV250	MV320
Charging rate [1]	150 l/min	200 l/min	250 l/min	320 l/min
Purification system	P41/350	P41/350	P41/350	P41/350
Cooling air flow, min.	1200 m³/h	1200 m³/h	1650 m³/h	2250 m³/h
Sound pressure level [2] (Super Silent version)	66 dB[A]	66 dB[A]	67 dB[A]	70 dB[A]
Weight (open model) [3]	324 kg	324 kg	333 kg	350 kg
Weight (Super Silent) [3]	374 kg	374 kg	383 kg	400 kg
Dimensions (L×W×H) open model [3]	1194 × 802 × 1372 mm			
Dimensions (L×W×H) Super Silent [3]	1375 × 802 × 1372 mm			

[1] Measured during cylinder filling from 0-200 bar tolerance +/- 5% at + 20°C ambient temperature.
[2] According to ISO 3744.
[3] Standard model. Weight and dimensions may vary depending on accessories.

Standard Scope of Supply

Compressor block with following features

- Oil pump for forced-feed lubrication
- Micronic intake filter: 10 μm
- Intermediate coolers, air cooled, stainless steel
- Aftercooler, air cooled, outlet temperature approx. 10-15 °C above cooling air temperature
- Intermediate separators after the second stage
- Final separator for oil/water separation after final stage
- Sealed safety valves after each stage
- TÜV approved final pressure safety valve
- Pressure maintaining and check valve after the final stage

The compressor frame, housing and load-bearing parts are metal (primer and painted finish); the front housing and control unit cover are of solid plastic (painted finish, halogen-free). Control box located on the left side of the compressor unit. Ergonomic access by folding out.

MINI-VERTICUS in Super Silent Version with filling devices

www.frsa.com.au | admin@frsa.com.au | + 61 7 3209 7422

FRSA
Fire Rescue Safety Australia

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

Drive: E-motor	MV150 / MV200	MV250	MV320
Motor	Three-phase		
Power	4.0 kW	5.5 kW	7.5 kW
Operating voltage / frequency [1]	400 V, 50 Hz		
Speed approx.	2,850 1/min	2,850 1/min	2,850 1/min
Protection class	IP55		

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

Compressor Block	IK150	IK120	IK12.14
Charging rate [1]	150 l/min	200 l/min & 250 l/min	320 l/min
Speed approx.	1,340 1/min	1,270 U/min bzw. 1,470 U/min	1,450 U/min
Number of stages	3	3	4
Number of cylinders	3	3	3
Cylinder bore 1st stage	70 mm	88 mm	105 mm
Cylinder bore 2nd stage	36 mm	36 mm	88 mm
Cylinder bore 3rd stage	14 mm	14 mm	28 mm
Cylinder bore 4th stage	-	- mm	12 mm
Stroke	40 mm	40 mm	40 mm
Direction of rotation (from flywheel side)	Left	Left	Left
Drive type	V-belt	V-belt	V-belt
Oil quantity	2.8 l	2.8 l	2.8 l
Oil pressure	4.5 bar ± 1.5 bar	4.5 bar ± 1.5 bar	4.5 bar ± 1.5 bar

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

P41/350 Purification System - Filter with Separate Final Oil and Water Separator

Scope of Delivery

- 1× filter housing with long-life filter cartridge
- Separator unit with final pressure safety valve
- Check valve between separator and micro filter
- Micro filter
- Air bleeder valve with manometer
- Pressurizer / check valve
- Filter key for cartridge renewal

P41/350 purification system (picture similar)

Air quality as per DIN/EN 12021:2014:

Contamination with	Maximum content as per DIN EN 12021:2014	Air quality by BAUER
H_2O	25 mg/m³	≤ 10 mg/m³
CO	5 ppm(v)	Depends on cartridge [1]
CO_2	500 ppm(v)	Depends on intake air [2]
Oil	0.5 mg/m³	≤ 0.1 mg/m³

[1] Only with BAUER special filter cartridge with hopcalite up to a maximum concentration of 25 ppm CO in intake air. The compressed clean breathing air then contains a maximum of 5 ppm CO.
[2] Where the intake air exceeds the maximum permissible level of CO_2 as per DIN EN 12021:2014, use of a BAUER AERO-GUARD system is urgently recommended.

www.frsa.com.au | admin@frsa.com.au | + 61 7 3209 7422

FRSA
Fire Rescue Safety Australia

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

Purification System	P41/350
Operating pressure (Standard)	PN200 / PN300
Operating pressure max (PS)	350 bar
Pressure dew point	< -20 °C, equivalent to 3 mg/m³ at 300 bar
Piping connections	G 3/8“ (condensate drain G ¼“)
Filter housing volume	2.1 l
DGRL 2014/68/EU (PED)	Vessel category II
Processable air capacity (at ambient temperature 20°C and 300 bar)[1]	1,595 m³

[1] When using a BAUER P41/350 filter cartridge without hopcalite. When using a cartridge with CO-removal, the air purification capacity is reduced by approx. 12 %. Different values for SECURUS cartridges.

B-CONTROL MICRO Electronic Control Unit

The B-CONTROL MICRO is a modern, easy-to-operate compressor control unit with colour display that intelligently controls and all basic compressor functions and monitors their safety. User-friendly navigation and clear display of all main compressor parameters.

B-CONTROL MICRO Display

Compressor Control Unit	B-Control Micro
Ambient temperature (Display + CPU):	-10°C to + 60°C (5-90% humidity; non-condensing)
Standard operating voltage (internal)	24 V DC
Protection class, control cabinet:	IP 55
Protection class, display:	IP 65
Type, display	3.5“ colour display with clear text

Features

- Displays current operating pressure, operating hours and operation type
- Displays remaining filling time for breathing air cylinders
- Semiautomatic and fully automatic operation options
- Standard SI unit selection for pressure and temperature
- User-friendly navigation and display (user interface)
- Displays service and maintenance intervals and maintenance information
- Password protection for various menu levels
- Data logger
- Simple software update uses SD card
- Cycle counter and operating hours counter
  - Safety: Information when pressure vessels require replacement
- Numerous language options (German, English, French, Chinese, Czech, Danish, Dutch, Finnish, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Swedish, Spanish, and more)

Monitor / Control Functions

- Oil pressure monitoring
  - Protection from incorrect rotation direction
- Temperature monitoring of the cooling air and gas temperature in the final oil and water separator
  - Safety: Compressor shutdown if temperatures are too high
- B-SECURUS monitoring (via CAN bus)
  - Safety: Shuts down compressor when filter cartridge is fully saturated
- Motor overcurrent (indirect by PTC)

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

Interfaces

- CAN bus for internal use
- Remote Start/Stop (dry contact)
- External emergency off switch
- Centralised alarm (dry contact)
- External connection options for: B-SECURUS, SECCANT, B-KOOL, external display, external operating field, gas measurement systems, 40 litre condensate collector
- Ethernet connection (for connection with local LAN/WLAN or B-LINK – for communication with B-APP and B-CLOUD)

Automatic Condensate Drain System B-DRAIN

The automatic condensate drain automatically removes the condensate that forms during compression (water/oil mixture) from the intermediate separators and the final separator and collects it in a condensate vessel, which is integrated in the compressor.
The newly developed and patented B-DRAIN automatic condensate drain uses individually controlled solenoid valves to ensure reliable, automatic condensate removal from the compressor separators.

B-DRAIN

Automatic condensate drain system	
Control voltage	24 V DC
Solenoid valve	normally open (NO)
Condensate collector capacity	approx. 14 l

OPTIONS

SUPER SILENT Housing

The MINI-VERTICUS Super Silent compressor housing is fully noise-insulated with optimised cooling air intake. The Super Silent soundproofed housing is recommended for applications where reduced noise is a priority, e.g. work environments.

- Closed design features targeted cooling air intake.
- Housing parts are easy to remove, ensuring fast access for maintenance.
- An exhaust air duct is easy to fit.
- Reduces acoustic pressure to:
  - 66 -70 dB[A] ± 2 dB[A] (ISO 3744) according to compressor version
- Finish: Basic frame RAL 9006, housing RAL 9006 and RAL1028, CYAN
- The Super Silent housing can be retrofitted.

B-SECURUS Filter Cartridge Monitoring System

The B-SECURUS System continuously monitors filter cartridge saturation levels by measuring the moisture in the molecular filter and showing a warning in the display of the B-CONTROL MICRO unit when it is time to change the cartridge. When the dryer cartridge is 100% saturated the B-SECURUS automatically shuts down the system.
The B-CONTROL unit displays the following warnings:

- Green segment: Filter cartridge OK
- Yellow segment: Cartridge nearing saturation
- Red segment: Cartridge saturated or contact fault. Compressor is shut down

Filter cartridge monitoring unit	B-SECURUS
Supply voltage	24 V DC
Protection class	IP 65

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

BAUER KOMPRESSOREN Certified Partner

Integrated B-DETECTION PLUS i Gas Measurement System

The online gas measurement system B-DETECTION PLUS monitors the quality of the compressed air: Measurement of CO, CO2, O2 as well as optional absolute humidity (as option) and VOC (as option). By means of the B-CONTROL control, you can at any time observe compliance with the limit values of the breathing air standard DIN EN 12021:2014. In the case of an exceedance of the limit, the control system will shows an alarm on the display by means of an optical warning signal and switch off the system before air contaminated with pollutants enters the breathing air bottles.
An automatic flush valve (optional) ensures that the contaminated air is directed into the open air without interrupting the operation of the system if short-term limit values are exceeded.

VERTICUS with integrated B-DETECTION PLUS i

P61/350 Purification System - Filter with Separate Final Oil and Water Separator

Scope of Delivery

- 1× filter housing with long-life filter cartridge
- Separator unit with final pressure safety valve
- Check valve between separator and micro filter
- Micro filter
- Air bleeder valve with manometer
- Pressurizer / check valve
- Filter key for cartridge renewal

P61/350 purification system (picture similar)

Air quality as per DIN/EN 12021:2014

(see purification system in standard scope of delivery)

Purification System	P81/350
Operating pressure (Standard)	PN200 / PN300
Operating pressure max (PS)	350 bar
Pressure dew point	< -20 °C, equivalent to 3 mg/m³ at 300 bar
Piping connections	G 3/8“ (condensate drain G ¼“)
Filter housing volume	2 x 2.85 l
DGRL 2014/68/EU (PED)	Vessel category II
Processable air capacity (with ref. 20°C and 300 bar)[1]	5.325 m³

[1] When using a BAUER P81/350 filter cartridge without hopcalite. When using a cartridge with CO-removal, the air purification capacity is reduced by approx. 1.5 %. Different values for SECURUS cartridges.

B-APP

The BAUER KOMPRESSOREN APP (B-APP) offers features such as product-specific news, videos and calculation tools on the subject of compressed air. In addition, the B-APP enables the remote control and monitoring of systems with the new BAUER control B-CONTROL MICRO. The connection to the compressor or the B-DETECTION can be made either directly via local WLAN or via the B-CLOUD. The B-APP can be downloaded free of charge from the App Store (iOS) and via GooglePlay (Android).

Controlling the unit with the B- APP

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

BAUER KOMPRESSOREN Certified Partner

B-LINK

WLAN Access Point/Client. For setting up a WLAN for communication B-CONTROL MICRO +Net with the B-APP (remote function) or B-CLOUD.

- Preconfigured as access point: Direct WLAN connection with a device (smartphone, tablet).
- Client: For connection to existing WLAN (home router, DSL router, company network). The configuration is performed by the customer.
- The WLAN module is installed at a suitable location in the compressor and connected ready for operation. Any necessary adjustment to the configuration are made by the customer.

B-LINK

B-LINK 4G

As B-LINK before, but additionally with mobile radio function (4G)

- Industrial 4G LTE Wi-Fi router for IoT applications
- Dimensions: 83 × 25 × 74 mm (without antenna)
- Incl. 10 m Ethernet cable for connection to the B-CONTROL MICRO +net
- Ready for mobile radio operation ex works. Configuration for WLAN is done by the customer.

A suitable SIM card (4G/LTE) or a mobile phone contract must be organised by the customer and is not included in the scope of delivery. Depending on the local conditions, installation or mounting is carried out on site outside the compressor unit or B-DETECTION. Not suitable for operation in North America.

Particle Filter

In combination with the P41, P61 and P81 purification systems, an optional integrated particulate filter is available for effective protection against fine dust and other solid particles. This permits the reliable removal of particles in accordance with ISO 8573 class 2.

B-CONTROL II Compressor Control Unit

BAUER B-CONTROL II is the advanced version of the B-CONTROL MICRO basic compressor control unit. It features a touch screen display:

- Fully automatic operation in line with customer-specific parameters
- Monitors all relevant operating data
- Shuts down the system in the case of deviation from defined operating parameters
- Displays operating data, maintenance information, fault messages and trends
- Master control unit for interconnected operation

B-CONTROL II display

Compressor control unit	B-CONTROL II
Motor drive	Star delta starter
Control voltage	24 V DC
Type	Semi-automatic or fully automatic
Operating elements	5.7'' TFT colour display 240 × 320 pixels; touch screen plus 10 function buttons, clear text display
Standard features	• Fully automatic monitoring of relevant parameters, compressor switch-off when values are outside the permissible range • Language selection (English, German, French, Italian, Dutch, Polish, Spanish, Czech, Portuguese, Chinese, Japanese, Russian and more) • Oil pressure monitoring to protect against incorrect direction of rotation, for example • Maintenance management: Maintenance information on the display • Logbook to record event history • Password protection for different menu levels • Basic load cycle and interconnected operation for up to 4 compressors • Integrated data logger • Cycle counter to record the load cycles of the final separator • Interface: USB 2.0, Ethernet 10/100, CAN bus layer 2, Modbus RTU RS485, Profibus DP slave (optional) • Remote on/off (dry contact) • Collective fault message (dry contact) • Straightforward software update via CF card • External options for the connection of: B-SECURUS, SECCANT, B-KOOL, B-DETECTION, external display, external instrument panel, fill level gas balloon, gas measuring systems

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

Filling Devices

Filling Device	PN200
Nominal pressure (PN)	200 bar
Valve type	4 filling valve with integrated ventilation, with German cylinder connector G 5/8” according to DIN 477 and DIN EN 144-2
Filling hose	4 Unimam high pressure filling hoses, length 1 m
International cylinder connector	4 international cylinder connectors
Manometer	1 final pressure manometer

or

Filling Device	PN300
Nominal pressure (PN)	300 bar
Valve type	4 filling valve with integrated ventilation, with German cylinder connector G 5/8” according to DIN 477 and DIN EN 144-2
Filling hose	4 Unimam high pressure filling hoses, length 1 m
Manometer	1 end pressure manometer

Filling devices

Filling Device PN 200/PN 300 (switch-over device)

Installed on compressor with pressure reducer for parallel filling pressure 200 / 300 bar:

Filling Device	PN200 / PN300
Nominal pressure (PN)	200 bar / 300bar
Valve type	Two lever filling valves per pressure range with integrated air bleeder, with German cylinder connector G 5/8” according to DIN 477 and DIN EN 144-2
Filling hose	2 × Unimam high pressure filling hoses per pressure range, length 1m
International cylinder connector	2 international cylinder connectors for 200 bar
Manometer	2 final pressure manometers
Pressure reducer	Pressure reducer at the front of compressor
Safety valve	One safety valve per pressure range 225 bar and 330 bar
Pressure sensor	One pressure sensor per pressure range PN200 and PN300

Additional Interstage Separator After 1st Stage

In operation in regions with high humidity, e.g. tropical regions, we recommend installing an interstage separator after the first compression stage. This can lengthen the service life of the system and reduce maintenance costs.

Interstage Manometer Set

The interstage pressure manometers display the operating pressure for the individual compression stages. This pressure information enables the sealing tightness of the valves (intake and outlet) of each stage to be checked and potential fault sources to be rapidly identified. The interstage pressure manometers are mounted in the compressor housing.

Interstage manometer

Condensate Collection System 60 l

Scope of Delivery

- 60-litre PVC tank, capacity approx. 40 litres
- Exhaust air is filtered by a soundproofed active charcoal filter
- Filling level display with visual warning when the collector requires emptying (optionally with signal for B-CONTROL)
- Drain tap for condensate, connector thread G ½“
- Dimensions: Ø 400 mm x 1.000 mm, weight approx. 15 kg

60 l condensate collection system

www.frsa.com.au | admin@frsa.com.au | + 61 7 3209 7422

FRSA
Fire Rescue Safety Australia

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

BAUER KOMPRESSOREN Certified Partner

Connection For External Air Intake

When breathing air cylinders are filled the quality of the compressed air depends on the quality of the ambient intake air. Particularly where exhaust gases (CO) and exhaust air from other systems may occur in the room where the compressor is sited, the intake must take in pure fresh air from outside. In this case, a connection for an external air intake is planned.

Exhaust Air Duct

- Exhaust air duct for cooling air flow outlet optionally at top or rear, with connection option for exhaust air channel
- For mounting on the compressor housing

Note: The exhaust air duct can only be mounted on the Super Silent housing

Standard exhaust air duct

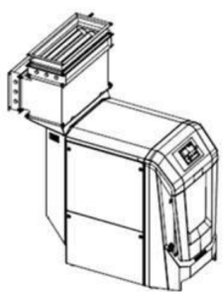
Exhaust Air Duct With Ventilating Shutters

An exhaust air duct with ventilating shutters is used with compressors installed in a container or compressor room to regulate ambient temperature. At low ambient temperatures (e.g. < +5 °C) the heated cooling air heats the room; at high ambient temperatures the heated cooling air is directed outdoors.

Scope of Delivery

- Exhaust air duct with canvas flange for exhaust channel (to be supplied on site)
- Louvres for circulating air control
- Actuating drive for louvres
- Electronic high - low action control system incl. temperature sensor (mounted in compressor air intake duct; set value +18 ± 4°C)
- Mounted on compressor housing incl. electric installation

Important: If the pressure drop is exceeded by 5 mmWS = 0.5 mbar (e.g. when the exhaust air duct is very long), an additional fan has to be provided on site. The system can be mounted on the top or rear of the compressor (please state requirements when ordering).



Exhaust air duct with ventilating shutters mounted on a VERTICUS

Extended Base Frame

The compressor and up to 2 storage cylinders, each with a geometric volume of 50 or 80 litres, are mounted on the extended base frame to form a turnkey system.

Extended Base Frame	
Weight[1]	33 kg
Dimensions (L × W × H)[1]	1920 × 790 × 1530 mm

[1] Without storage bottles.

High-Pressure Storage Systems

Modular high-pressure storage system for storage of air / gases, extendable. The storage units can be set up separately or on an extended basic frame (to be ordered separately).
The extended basic frame enables the compressor and up to 2 storage cylinders with a geometric volume of 50 / 80 litres each to be combined in a turnkey system.

B50 2 × B60

Scope of Delivery

HP storage cylinder on console (B 50 and B 80)
Storage cylinder(s) upright, mounted on console, connection at bottom, shut-off valve and condensate drain valve. Option: safety valve with pressure gauge. Option from two storage cylinders: Connection tube (required for each additional storage cylinder).

HP storage cylinder with wall mounting (B 80)
Storage cylinder(s) upright, clamp for wall mounting, connection at top, shut-off valve. Without condensate drain valve. Option: safety valve with pressure gauge (loose). Option from two storage cylinders: Connection tube (required for each additional storage cylinder).

HP storage cylinder loose (B 80)
Storage cylinder(s) upright, connection at top, shut-off valve. Without condensate drain valve. Option: safety valve with pressure gauge (loose). Option from two storage cylinders: Connection tube (required for each additional storage cylinder).

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

BAUER KOMPRESSOREN Certified Partner

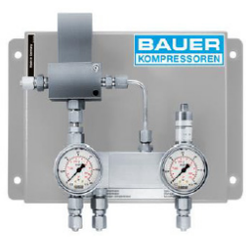
Technical Specification

	330 Bar	420 bar
	B 80	B 50
Numbers of storage bottles:	1	1
Storage medium:	Air, Nitrogen, Rare gases	
Geometric volume cylinder:	80 Litre	50 Litre
Geometric volume storage:	80 Litre	50 Litre
Safety valve max.:	330 bar	420 bar
Storage pressure max.:	320 bar	400 bar
Weight:	160 kg	125 kg
Dimension (w/o safety valve) [W × H × D]	340 × 2107 × 325 mm	340 × 1874 × 325 mm
Design as per:	DGRL2014/68/EC (PED) [1]	

[1] Other certificates / approvals on request.

Automatic Selector Unit

The automatic selector unit enables pressurised air cylinders (bottles) to be filled rapidly and in parallel from a buffer (intermediate storage system and by the compressor.



Automatic selector unit

Scope of Delivery

- Painted steel base plate for wall mounting
- Pressuriser valve
- Check valve
- Pressure switch or pressure sensor, depending on the connected compressor control unit
- Manometer for filling pressure
- Manometer for storage pressure

Automatic selector unit	
Medium	Compressed air
Ambient temperature	+5 °C to +45°C
Operating pressure	Max. 350 or 420 bar (depending on models)
Air intake/outlet	10 mm (Pipe outside diameter))

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

B-KOOL Refrigeration Dryer

The B-KOOL Refrigeration Dryer cools the compressed air and thus extends the service life of filter cartridges many times over.
The B-KOOL cools the hot saturated air in the compressor to approx. +3 °C, enabling the final separator to extract significantly higher volumes of condensate and thus extending the service life of the downstream filter cartridges significantly. The higher the ambient temperature, the longer the lifespan of the filter cartridges when the B-KOOL is used.

Types

- B-KOOL II 680i, integrated (mounted on a VERTICUS with Super Silent
- housing)
- B-KOOL 680s standalone positioned next to the compressor

Model	B-KOOL 680s
Medium	Compressed air
Ambient temperature	+5 °C to +45°C
Refrigerant	R 134 a
Compressed air – intake temperature	max. 60°C
Max. working pressure compressed air	350 bar / 500 bar
Min. working pressure compressed air	100 bar
Allowed capacity compressor	200 – 700 l/min (10 l cylinder filling from 0-200 bar) 200 – 650 l/min (as per ISO 1217)
Supply voltage	100 – 127 VAC 50 Hz or 200 – 240 VAC 50/60 Hz
Power consumption	max. 550 W at 50 Hz, 610 W at 60 Hz

Dimensions, Weight and Connections

Model	B-KOOL II 680i	B-KOOL 680s
Dimensions (L ×W × H)	550 × 792 × 390 mm	386 × 695 × 565 mm
Weight approx.	57 kg	48 kg

Assembly Kits

Suitable for Purification systems P41 and P61. The assembly kit for mounting on a compressor must be ordered separately and is essential.

Bauer Mini-Verticus Compressor

Stationary High Pressure Compressor

AERO-GUARD CO_2 Absorber

Efficient removal of CO_2 from breathing air: A sophisticated bypass system feeds the compressor intake air through the AERO-GUARD. Only around two-thirds of the air passes through the filter cartridge that absorbs the CO_2 from the air. This process reduces the CO_2 content to one-third of that of the intake air.

AERO-GUARD

Scope of Delivery - AERO-GUARD

- Intake pipe (order connections separately)
- Water barrel, 60 l (for AERO-GUARD DUO – 2 × water barrels each 60 l)
- Filter cartridge; filling: 9 kg special carbon dioxide absorber

Models

Type / Size	Suitable for charging rate [1] l/min	Dimensions (W×D×H) cm	Weight [2]
Aero-Guard-S	100 – 150	50 x 46 x 72	26kg
Aero-Guard-M	160 – 230		
Aero-Guard-L	240 – 320		
Aero-Guard-XL	330 – 450		
Aero-Guard-XXL	460 – 700		
Aero-Guard Duo 1000	650 – 1000	85 × 62.5 × 87	54 kg

[1] Charging rate of the connected compressor measured with cylinder filling from 0 – 200 bar ± 5%
[2] Includes filter cartridge and 10-litre water ballast

Technical Operating Data

Model	AERO-GUARD S-XXL	AERO-GUARD DUO 1000
Medium	Pressurised air	
Ambient temperature	+5 to +45°C	
Intake air temperature	+5 to +45 °C	
Rel. humidity of intake air	10 to 100 %	
CO_2 intake air concentration	max. 1000 ppm_v CO_2	
CO_2 output air concentration	1/3 of intake concentration = max. 330 ppm_v CO_2 at 1,000 ppm_v intake concentration CO_2	
Designed for compressor charging rate	100 – 700 l/min	650 – 1,000 l/min
Service life	Min. 43 operating hours (at 700 l/min output and intake concentration of 1000 ppm CO_2). Cartridge must be changed after max. one year even if the maximum service life is not reached.	Min. 60 operating hours (at 1,000 l/min output and intake concentration of 1000 ppm CO_2). Cartridge must be changed after max. one year even if the maximum service life is not reached.
Maximum daily operating time:	5 h	
Cartridge filling:	Approx. 9 kg special carbon dioxide absorber per cartridge	
Pressure loss	Approx.20 mbar	
Max. permissible tilt	15°	
Permissible altitude[1]	0 - 1000 m AMSL	
Finish	Container blue, cover black/silver, PVC pipes grey RAL7011	

[1] Operating in altitudes > 1000 m AMSL on request

Bauer Mini-Verticus Compressor

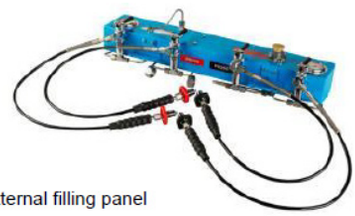
Stationary High Pressure Compressor

External Filling Panels

These external filling panels can be wall-mounted as separate panels and are suitable for remote operation for installation in a separate room.

Scope of Delivery

- Direct filling connection or hose connection
- One or two pressure ranges PN200 and/or PN300 (second pressure range can be selected with a switching tap or permanently connected with a pressure reducer)
- 4, 6 or 10 filling connections
- High-pressure check of all components
- Flushing valve prevents excessive CO_2 content in compressed breathing air
- CE Mark



External filling panel

Filling connections	Dimensions (L × W × H) mm	Weight kg
4 filling connections	1140 × 138 × 183	Depends on features
6 filling connections	1200 × 138 × 183	Depends on features
10 filling connections	1120 × 352 × 370	Approx. 33 kg

Rules, Standards and General Information

Relevant EU Directives (where applicable)

- EC Machinery Directive (2006/42/EC)
- EU Pressure Equipment Directive (2014/68/EU)
- EU Low Voltage Directive 2014/35/EU
- EU Electromagnetic Compatibility (EMV) 2014/30/EU

Applied national standards and technical specifications, in particular

- Betriebssicherheitsverordnung - BetrSichV (German Industrial Safety Regulation
- AD 2000
- Unfallverhütungsvorschrift (BGR; German Accident Prevention Regulations) BGR 500
- All BAUER filter housings are designed, manufactured and tested in line with Accident Prevention Regulations and regulations under AD-2000 provisions and DGRL2014/68/EU.

Documentation: 1 × operating manual and parts list with exploded view drawing on DVD

Design: In line with the state of the art according to DIN, VDE, TÜV and Accident Prevention regulations

Testing: In line with Bauer Standard as per DIN EN 10204 - 3.1

Otherwise the General Terms and Conditions of BAUER KOMPRESSOREN (AGB) in the version valid at the time of contract conclusion apply. These Terms & Conditions can be viewed and downloaded at the website www.bauer-kompressoren.com, or sent by BAUER on request.
All information is given without assumption of liability and subject to technical changes.