

Mobile B-VIRUS FREE

Models:

B-VIRUS FREE S | B-VIRUS FREE M



- › Inactivation of viruses, bacteria, mould and pollen *
- › Can be retrofitted to all BAUER compressors
- › Flow rate 100 – 320 l/min

* The B-VIRUS FREE Filter inactivates a minimum of 99.9% of the SARS CoV-2 virus. Inactivation rates for further viruses, bacteria and moulds are type-dependent.

INACTIVATION OF CORONA VIRUSES, BACTERIA AND MOLD

Free of chemicals and ozone, B-VIRUS FREE uses a special UVC light source to destroy the described pathogens in the air flow of the intake air before they can get into the compressor. The highly effective radiation with a wavelength of 254 nm is absorbed by the genetic material of the pathogen. Photons destroy the bonds within the genome of viruses, bacteria and mould spores. This stops the propagation and effectively prevents them from reproducing.

SCOPE OF DELIVERY B-VIRUS FREE MOBILE:

- › Pre-filter
- › Virus filter
- › UV lamp
- › Control box
- › Carrying strap
- › Suitable connecting hoses must be ordered separately and matched to the compressor type
- › Installation kits for compressor seals must be ordered separately

B-VIRUS FREE

VARIANTS FOR MOBILE USE:

Type / Size	Suitable for charging rate ¹	Dimensions (W x D x H)	Operating weight ²
	l/min	mm	
B-VIRUS FREE S	100 – 230	665 × 430 × 230	Filter unit: approx. 9 kg Control box: approx. 8 kg
B-VIRUS FREE M	240 – 350	665 × 430 × 230	Filter unit: approx. 9 kg Control box: approx. 8 kg

1 Charging rate of the connected compressor measured with cylinder filling from 0 – 200 bar ± 5%.

2 Including UV lamp; without connecting hoses.

TECHNICAL OPERATING DATA:

Model	B-VIRUS FREE	
Medium	Breathing air	
Operating pressure	Atmospheric	
Ambient temperature	+5 to +40°C	
Intake air temperature	+5 to +40 °C	
Rel. humidity of intake air	10 to 100 %	
Flow rate	100 - 320 l/min	
Pressure loss	S (200l/min): 2 mbar	M (320l/min): 4mbar
Warm-up time	60-120 s	
Service life	Lamp replacement after 2000 hours or 2 years	
Type of UV lamp	Low pressure UVC lamp	
Wave length	254 nm	
Filter tube material	Aluminium	
Control box material	Powdered steel	
Inlet connection	DN60	
Outlet connection	DN40, DN60	
Installation	Wall-mounting	
Protection class	IP64 (control box) IP53 (filter housing)	
Installation position	Horizontal (Short-term up to 15% inclination)	
Permissible altitude	0 - 2000 m AMSL	
Finish	Prefilter: black Filter housing: shiny aluminium Control box: Front: RAL9016 smooth Body: RAL 7024 structure	

B-VIRUS FREE

ELECTRICAL OPERATING DATA:

Model	B-VIRUS FREE
Permitted operating environment	not explosive
Operating voltage / frequency	220-240/110-120VAC; 50Hz/60Hz
Power consumption	B-VIRUS FREE S/M: 100W
Optical signals	Blue flashing = warm-up phase Blue continuous glow = virus filter active Red = fault / alarm
Acoustic signals	80dB, Continuous tone, 2400Hz
Outlet signal	Potential-free contact (max. 240V/2A)
Inlet signal	24-240VAC/DC
Control box dimensions	459mm x 250mm x 150mm

OPERATING MODES:

B-VIRUS FREE can be operated in different modes. The available operating modes depend on the connected compressor control model. The respective control type must be specified when ordering.

Operating mode	Required control/equipment	Function B-VIRUS FREE		
		Switch on/off	Automatic start delay compressor (warm-up phase)	Emergency-stop compressor (in case of malfunctions)
Manual	None	Manually	-	-
Semi-automatic	<ul style="list-style-type: none"> ➤ Hard-wired-control ➤ B-CONTROL MICRO (+) ➤ Other controls 	Manually	-	Automatic switch-off of the compressor in case of malfunction B-VIRUS FREE
Fully-automatic	<ul style="list-style-type: none"> ➤ B-CONTROL MICRO +Net ➤ B-CONTROL II 	Automatically by compressor control	Start of compressor after completed warm-up phase B-VIRUS FREE	Automatic switch-off of the compressor in case of malfunction B-VIRUS FREE

B-VIRUS FREE

CONNECTION TO COMPRESSOR:

Variant of connection/retrofit kit, see abbreviation following table:

Unit type	Block	Intake filter type	Intake filter hose diameter	B-VIRUS FREE	B-VIRUS FREE hose diameter	Open Variant
JuniorII	JuniorII	1	40	S	40	A
Oceanus	Oceanus	1	40	S	40	A
PE100	JuniorII	1	40	S	40	A
Capitano	IK100	2	40	S	40	A
Mariner200	IK120	2	40	S	40	A
Mariner250	IK120	2	40	M	60	B
Mariner320	IK12.14	2	40	M	60	B
Mariner320-E-OX inkl. Blending	IK12.14-OX	2	40	M	60	D
PE200-TE	IK120	2	40	S	40	A
PE200-TB	IK120	2	40	S	40	A
PE250-TE	IK120	2	40	M	60	B
PE250-TB	IK120	2	40	M	60	B
PE300-TE	IK120	4	40	M	60	C
PE300-TB	IK120	4	40	M	60	C

Nitrox operation only with blending system. POSEIDON EDITION Nitrox compressors cannot be connected to the BAUER B-BLENDING system.

Part list retrofit kits 188961-	Hoe system I	Hose clip I	Adapter	Others I	Others II
A	1x ID40	2x D35-D55	-	-	-
B	1x ID60	2x D45-D65	AD60/AD40	1x ID40 hose system	2x D35-D55 hose clip
C	1x ID60	2x D45-D65	AD60/AD25	1x ID25 hose(1m)	2 x D25-D40 hose clip
D	1x ID60	2x D45-D65	-	2x AD60 shrink hose	2x AD40 shrink hose

INSTALLATION:

For liability reasons, installation the B-VIRUS FREE filter is only possible on BAUER compressors with charging rates of 100 - 850 l / min. Installation on other compressors only via individual approval from BKM. When installing, make sure that the intake filter of the compressor is sealed with the appropriate sealing kit, otherwise, after the B-VIRUS FREE filter leaks can cause new pathogens to enter the breathing air to be compressed.

The following sealing kits for existing intake filters are available:

Intake filter type	Block	Retrofit kit
1	Junior, Oceanus	187782
2	IK100, IK12.14, IK120	187785
3	IK15.1, I15.11, IK150, IK18.1, IK180	187783
4	IK120, IK12.14 ¹	not necessary
5	IK22.0, IK23	On request

¹ Only for compressors with 1800 rpm of PE series.

Relevant EC Directives (where applicable)

- › EC Machinery Directive (2006/42/EC)
- › EC Low Voltage Directive 2006/95/EC
- › EC Electromagnetic Compatibility (EMC) 2004/108/EC

Applied national standards and technical specifications, in particular

- › Betriebssicherheitsverordnung (German Industrial Safety Regulation) of 27 September 2002
- › Unfallverhütungsvorschrift (BGR; German Accident Prevention Regulations) BGR 500

Documentation: 1x 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

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.