

B-VIRUS FREE

B-VIRUS FREE

Models:

B-VIRUS FREE S | B-VIRUS FREE M
B-VIRUS FREE L | B-VIRUS FREE XL



- › Inactivation of viruses, bacteria, mould and pollen *
- › Can be retrofitted to all BAUER compressors
- › Flow rate 100 – 850 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:

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

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VARIANTS:

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. 6 kg Control box: approx. 8 kg
B-VIRUS FREE M	240 – 350	665 × 430 × 230	Filter unit: approx. 6 kg Control box: approx. 8 kg
B-VIRUS FREE L	360 – 550	910 × 430 × 230	Filter unit: approx. 6.5 kg Control box: approx. 8 kg
B-VIRUS FREE XL	560 – 850	960 × 430 × 230	Filter unit: approx. 7 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 - 850 l/min	
Pressure loss	S (200l/min): 2 mbar	M (320l/min): 4mbar
	L (550l/min): 7,5 mbar	XL (770l/min): 10 mbar
Warm-up time	60 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, DN100	
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	

ELECTRICAL OPERATING DATA:

Model	B-VIRUS FREE
Permitted operating environment	not explosive
Operating voltage / frequency	220-240/120VAC; 50Hz/60Hz
Power consumption	B-VIRUS FREE S/M: 100W B-VIRUS FREE L/XL: 150W
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	➤ Hard-wired-control ➤ B-CONTROL MICRO ➤ Other controls	Manually	-	Automatic switch-off of the compressor in case of malfunction B-VIRUS FREE
Fully-automatic	➤ 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

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	Silent variant without external air intake	Silent variant with external air intake
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	-	-
MV150	IK100	2	40	S	40	A	B	C
Mariner200	IK120	2	40	S	40	A	-	-
MV200	IK120	2	40	S	40	A	B	C
Mariner250	IK120	2	40	M	60	D	-	-
MV250	IK120	2	40	M	60	D	E	F
MV260/420	IK12.14	2	40	M	60	D	E	F
MV260-OX incl. Blending	IK12.14-OX	2	40	M	60	P	-	P
Mariner320	IK12.14	2	40	M	60	D	-	-
Mariner320-E-OX incl. Blending	IK12.14	2	40	M	60	P	-	P
MV320	IK12.14	2	40	M	60	D	E	F
MV320/420	IK12.14	2	40	M	60	D	E	F
MV320-OX incl. Blending	IK12.14-OX	2	40	M	60	P	-	P
PE250-HE	IK120	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	D	-	-
PE250-TB	IK120	2	40	M	60	D	-	-
PE250-MVE	IK120	2	40	M	60		E	F
PE320-VE	IK12.14	2	40	M	60	D	E	F
V450	IK15.1	3	60	L	60	G	H	I
V450/420	IK15.11	3	60	L	60	G	H	I
V450-OX incl. Blending	IK15.1-OX	3	60	L	60	Q	-	Q
V560/420	IK18.1	3	60	L	60	G	H	I
V540	IK150	3	60	L	60	G	H	I
PE550-VE	IK150	3	60	L	60	G	H	I
PE500-VE	IK18.1	3	60	L	60	G	H	I
V560/420	IK18.1	3	60	XL	100	J	K	L
V680	IK180	3	60	XL	100	J	K	L
PE600-VE	IK18.1	3	60	XL	100	J	K	L
PE700-VE	IK180	3	60	XL	100	J	K	L
PE850	IK180 modi.	3	60	XL	100	J	K	L
PE300-HE	IK120	4	25	M	60	M	-	-
PE300-TE	IK120	4	25	M	60	M	-	-
PE300-TB	IK120	4	25	M	60	M	-	-
PE300-MVE	IK120	4	25	M	60		N	O
PE300-VE	IK120	4	25	M	60	M	N	O
PE400-VE	IK12.14	4	25	L	60	M	N	O

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

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Unit type	Block	Intake filter type	Intake filter hose diameter	B-VIRUS FREE	B-VIRUS FREE hose diameter	Open Variant	Silent variant without external air intake	Silent variant with external air intake
KAP15.1-H	IK15.1	3	60	L	60	G	-	-
KAP150-H	IK150	3	60	XL	100	J	-	-
KAP180-H	IK180	3	60	XL	100	J	-	-
KAP15.1-HN	IK15.1	3	60	L	60	G	-	-
KAP150-HN	IK150	3	60	XL	100	J	-	-
KAP180-HN	IK180	3	60	XL	100	J	-	-
KAP15.1-DAH	IK15.1	3	60	L	60	G	-	-
KAP150-DAH	IK150	3	60	XL	100	J	-	-
KAP180-DAH	IK180	3	60	XL	100	J	-	-
KAP220-20	IK22.0	5	60	XL	100	J	On request	On request
KAP220-25	IK22.0	5	60	XL	100	J	On request	On request
KAP220-30	IK22.0	5	60	XL	100	J	On request	On request
KAP220-30/420	IK22.0	5	60	XL	100	J	On request	On request

Part list retrofit kits	Shrinkdown tubing I	Hose I	Adapter	Feed-through	Shrinkdown tubing II	Hose II
A	2x OD40	1x OD40	-	-	-	-
B	4x OD40	2x OD40 (4m)	-	1x OD40 to OD40	-	-
C	4x OD40	1x OD40	-	1x OD40 to OD40	-	-
D	2x OD60	1x OD60	1x OD60/OD40	-	2x OD40	1x OD40
E	2x OD60	1x OD60	-	1x OD60 to OD40	2x OD40	1x OD40
F	2x OD60	1x OD60	-	1x OD60 to OD40	2x OD40	-
G	2x OD60	1x OD60	-	-	-	-
H	4x OD60	2x OD60	-	1x OD60 to OD60	-	-
I	4x OD60	1x OD60	-	1x OD60 to OD60	2x OD60	-
J	2x OD100	1x OD100	1x OD100 to OD60	-	2x OD60	1x OD60
K	2x OD100	1x OD100	-	1x OD100 to OD60	2x OD60	1x OD60
L	2x OD100	1x OD100	-	1x OD100 to OD60	2x OD60	1x OD60
M	2x OD60	1x OD60	1x OD60 to OD25	-	2x OD25	1x OD25
N	2x OD60	1x OD60	-	1x OD60 to AD25	2x OD25	1x OD25
O	2x OD60	1x OD60	-	-	2x OD25	-
P	2x OD40	-	-	-	4x OD60	1x OD60
Q	6x OD60	1x OD60	-	-	-	-
R	6x OD60	1x OD60	1x OD100/OD60	-	2x OD100	1x OD100

RETROFIT:

For liability reasons, retrofitting the B-VIRUS FREE filter is only possible on BAUER compressors with charging rates of 100-850 l/min.

When retrofitting, make sure that the intake filter of the compressor is sealed with the appropriate retrofit kit, otherwise, after the B-VIRUS FREE filter leaks can cause new pathogens to enter the breathing air to be compressed.

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The following retrofit 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.