



Translation of the original instructions Dust removal filter SFK-01/02/03 KG

Material No. of Instruction Manual 79340811



1 Contents

1	Conte	ents2
2	Gene	ral safety instructions2
	2.1	Safety instructions for installation and
		operating personnel
	2.2	Warning structure2
	2.3	Warning symbols used3
	2.4	Other symbols used
3	Gloss	ary3
4	Gene	ral information 3
	4.1	Manufacturer3
	4.2	Information about the Instruction Manual 3
	4.3	ATEX type key 4
5		ded application4
6		ional description5
	6.1	Principle of the process5
7		nical data6
	7.1	General data (excluding options)6
		7.1.1 Dust filter housing (standard version) 6
		7.1.2 Cartridges
	7.2	Compressed air connection
	7.3	Noise emission
_	7.4	Ambient conditions
8		port and storage6
9		lation 7
	9.1	Installation
	9.2	Pressure relief devices
	9.3	Pipe connections
	9.4	Compressed air connection
		9.4.1 Compressed air quality 8 9.4.2 2/2-way valve connection 8
		9.4.3 Compressed air connection
	9.5	Electrical connections
	0.0	9.5.1 2/2-way valve connection
	9.6	Cleaning control9
10	Start-	up9
	10.1	Initial start-up or start-up after a prolonged
		shut-down9
	10.2	Starting up the dust removal filter 9
11	Norm	al operation 10
	11.1	General information about emptying dust 10
12	Shutti	ing down the dust removal filter10
	12.1	Temporary shut-down 10
	12.2	Prolonged shut-down (> 48 h)10
	12.3	Emergency shut-down 10
		eleshooting10
14		enance 11
	14.1 14.2	Inspection and maintenance schedule
. -		Replacing the cartridges
		number key13
		dges used 15
		facturer's declaration16
		ration of conformity17
19	Decla	ration of incorporation18
04	1	22

2 General safety instructions

2.1 Safety instructions for installation and operating personnel

This Instruction Manual contains important safety instructions which must be heeded at all times during installation, normal operation and maintenance.

Non-observance can result in the following risks to persons and the environment as well as in damage to the machine or system:

- Failure of critical functions of the machine or system or of its component parts.
- ⇒ Danger to persons from electrical or mechanical effects as well as from chemical reactions.
- Danger to the environment owing to the leakage of hazardous substances.

Before installation/start-up:

- Read the Instruction Manual carefully.
- Make sure that installation and operating personnel are adequately trained.
- Make sure that the contents of the Instruction Manual are fully understood by the responsible persons.
- Define areas of responsibility and competence.
- Prepare a maintenance schedule.

During operation of the system:

- Keep the Instruction Manual handy at the place where the system is used.
- Heed the safety instructions. Always operate the machine/system in accordance with its ratings.

If in doubt:

• Consult the manufacturer.

2.2 Warning structure

Where possible, warnings are structured according to the following system:

Signal word							
Doggibly	Nature and source of the danger						
Possibly with	⇒ Potential consequences of non-						
symbol	observance						
Symbol	Action to avert the danger.						

Warning symbols used 2.3

DANGER!

Immediate danger!

⇒ Non-observance will result in serious or fatal injury.

WARNING!

Potentially dangerous situation!

⇒ Non-observance can result in serious or fatal injury.

△ CAUTION!

Potentially dangerous situation!

Non-observance can result in minor or moderate injuries.

CAUTION! (without a symbol)

Potentially dangerous situation!

Non-observance can result in property damage.

2.4 Other symbols used



Danger from high voltage



Danger information about explosion protection



Information about environmental protection



Wear protective clothing!



Wear goggles!



Wear a respirator!





Hand symbol: Indicates general information and recommendations

- **Bullet:**
 - Indicates the order in which actions are to be carried out

 \Rightarrow

Arrow:

Indicates responses to actions

3 **Glossary**

System:

Customer's complete plant in which the FG dust removal filter is integrated.

Pressure difference/differential pressure:

Pressure difference between the untreated and cleaned gas sides of the filter (in [mbar] or [Pa]).

Final surge:

Abrupt increase in the flow at the end of a silo filling process.

Filter surface load:

Velocity at which the medium flows through the filter surface. Calculated as the ratio of volumetric flow to filter surface [m3/m2 min].

Residual dust content:

Amount of solid particles on the cleaned gas side [mg/m³].

Temperature at which a gas is saturated with moisture. Temperatures below the dew point lead to the formation of fog droplets.

Contract documentation:

Offer, confirmation of order and delivery note.

General information 4

Manufacturer

Filtration Group GmbH Schleifbachweg 45 D-74613 Öhringen Phone +49 7941 6466-0 Fax +49 7941 6466-429

Information about the Instruction Manual

FG Mat. No.:	79340811
Date:	25.01.18
Version:	12

4.3 ATEX type key



II	3	D	С	T 140°C	X
1.	2.	3.	4.	5.	6.

1 II Valid for use above ground

2.		Categ	gory 1	Categ	gory 2	Category 3	
	Use in:	Zone	Zone Zone Zone		Zone	Zone	Zone
		0	20	1	21	2	22
3.	Atmosphere G = Gas D = Dust	O	D	G	D	G	D

- 4. Types of protection
 - c = Constructional safety
 - d = Flameproof enclosure
- 5. T 140°C = The maximum surface temperature on the dust removal filter is 140°C.

A temperature class is specified for gas.

T4 = 140°C

6.	X	A)	Suitable for dusts with a minimum ignition energy greater than 3 mJ
		B)	Suitable for dusts with a minimum ignition energy greater than 10 mJ and pneumatic conveying
		C)	A suitable decoupling component must be provided on the pressure, suction and discharge sides prior to starting up the surge pressure-resistant version of the filtration device

(Space for name-plate)

(Space for ATEX name-plate)

The Ex type of protection is only valid in conjunction with the declaration of conformity.

5 Intended application

DANGER!

PROHIBITED:

- Use for purposes other than that described below without prior consultation with the manufacturer.
- Use in hazardous areas, unless explicitly mentioned in the contract documentation.
- Use with smouldering, burning or adhesive particles.
- Use with highly explosive dusts (e.g. explosives, etc.).
- Temperatures below the dew point.
- · Hazardous substances and materials.

△ CAUTION!

This FG dust removal filter is only allowed to be used in accordance with the operating conditions specified in the contract documentation and in the Instruction Manual. All forms of use which deviate from or exceed the limits of use described above are considered to be contrary to the intended purpose. The manufacturer shall not be liable for any damage resulting from such use.

CAUTION!

Conditionally allowed:

- · Use of solvents in consultation with the manufacturer.
- Use as a "vacuum cleaner" in accordance with the specified operating conditions.

FG jet pulse filters are designed for dry dust removal from dust-laden gases. The cartridges should preferably be cleaned during the intervals between filtration cycles.

Possible applications (selection):

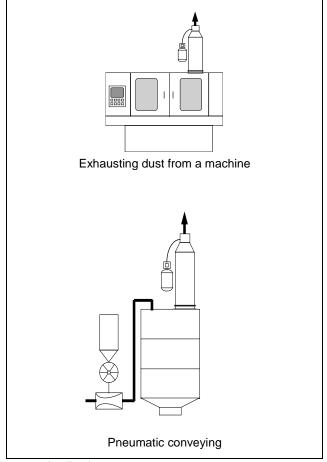


Fig. 1: Applications

6 Functional description

6.1 Principle of the process

1

The dust-laden gas flows into the dirty gas chamber.

2 The dust particles are separated on the cartridges.

3 The cleaned gas enters the cleaned gas chamber.

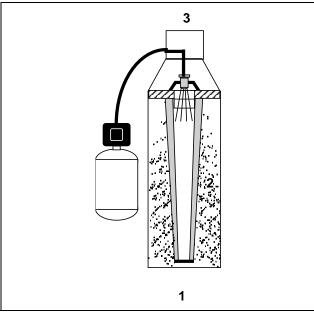


Fig. 2: Filtration principle

4

The cartridge is cleaned periodically by means of a pulsed jet of compressed air.

5

The pulsed air jet causes the filter cake to be detached uniformly.

6

The accumulated dust drops down to the bottom.

The filtration process should preferably be interrupted for cleaning.

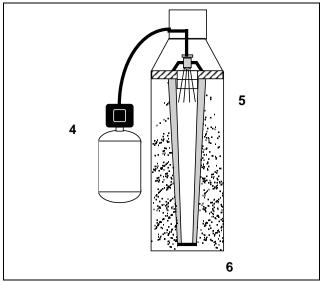


Fig. 3: Cleaning principle

7 **Technical data**

General data (excluding options) 7.1

Dust filter housing (standard version)

1.1.1 Dust	iliter flousing (standard version)						
Material:	Stainless steel 1.4301						
Seals:	NBR						
Clamp rings	s: Galvanized sheet steel						
Max. opera	ting temperature						
(without sou	und absorbing cover): 120°C						
Max. opera	ting temperature						
(with sound	absorbing cover):40°C						
Pressure resistance:+/- 50 mba							
	The values for the standard version apply						
Unless otherwise indicated in the contract							



documentation.



Other materials and temperatures are available as special versions.

7.1.2 Cartridges

Filter material: Refer to order-specific list of spare parts Seal material:PES needle felt Metal parts: Galvanized sheet steel/1.4301 (optional)



Refer to the contract documentation (offer/order confirmation) and/or the cartridge data sheet for more technical data.

Compressed air connection

Compressed air:.....6 – 7 bar, dewatered Consumption per cleaning cycle: Approx. 10 ln*

Noise emission

Continuous sound pressure level:.....< 70 dB(A)

7.4 **Ambient conditions**

Ambient temperature:	15 + 70°C
Floor:	Level, free from vibrations
Atmosphere:	Non-corrosive

Transport and storage 8

Transport

△ CAUTION



High centre of gravity!

- ⇒ Risk of injury to persons or damage to property
- Do not transport when assembled!
- Always transport horizontally
- Avoid vibrations
- Do not remove the transport lock until the equipment has reached its installation location

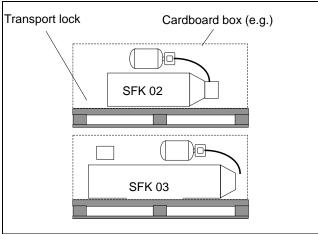


Fig. 4: Delivery condition

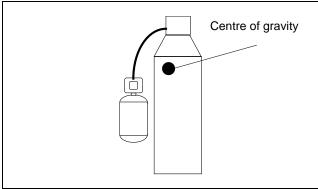


Fig. 5: Centre of gravity

Storage

- Always store in the original packaging
- Always store in a dry, frost-free room







Seaworthy packaging is specified in the contract documentation as an option.

N = Normal conditions (corresponds roughly to the

[&]quot;suction capacity" of a compressor)

9 Installation

⚠ WARNING!

Explosion hazard!

- ⇒ Risk of injury to persons or damage to property
- This FG dust removal filter is only allowed to be installed and operated in the category specified in the contract documentation (offer/order confirmation).



- If no category is specified: Do not operate the FG dust removal filter in hazardous areas!
- The owner is responsible for zoning.
- The owner of the plant is solely responsible for implementing the appropriate explosion protection measures!
- If in doubt, please consult the responsible authorities.

△ WARNING!

Explosion hazard!



- ⇒ Risk of injury to persons or damage to property
- The system is only allowed to be installed, accepted and tested by a suitably qualified person (99/98/EC).

△ WARNING!

If the system is installed by unauthorised persons

- ⇒ Risk of injury
- ⇒ All warranty claims are rendered invalid
- The system must be installed by a suitably trained person!

△ WARNING!

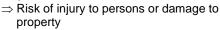
Danger when pressure is vented

- ⇒ Risk of injury
- Keep well away from the pressure vent area.
- · Heed the manufacturer's instructions.

9.1 Installation

⚠ WARNING!

Explosion hazard!





- Check the conductivity between all components!
- Note the maximum permissible resistance: $R < 10 \Omega$.
- Make sure that earthing is provided by the customer.



It must be possible to remove the filter insert in order to carry out maintenance work.

• The unit must be installed on a firm surface.

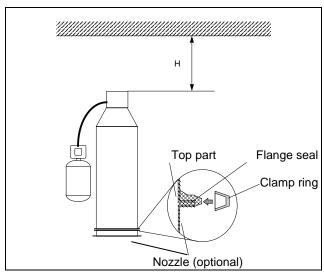


Fig. 6: Installation with clamp ring

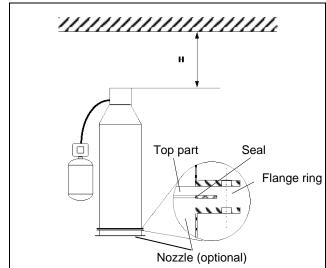


Fig. 7: Installation with flange ring

9.2 Pressure relief devices

△ WARNING!

If inadmissible excess pressure occurs, the dust removal filter may be torn loose from its anchor point!

- ⇒ Risk of serious injury or damage to property if parts fall off the system.
- Design measures must be incorporated to prevent inadmissible excess pressure on the untreated gas side.
- · Install pressure relief devices if necessary.
- Design measures must be incorporated to prevent inadmissible excess pressure on the dirty side.
- Install pressure relief (PA+) and overfill protection (LA+) devices.
- Cordon off the danger area.
- Limit the final surge at the end of a silo filling process.
- · If in doubt, consult the manufacturer.

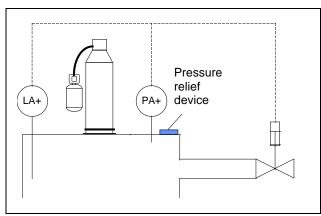


Fig. 8: Example of a pressure relief device

9.3 Pipe connections

CAUTION

Stress relief must be provided for all pipe connections to the dust removal filter!

- Avoid pipe bends or contractions immediately upstream or downstream of the dust removal filter.
- All connections must be properly secured (e.g. with pipe clamps, clamp rings, bolted flanges, etc.).
- · Check that all connections are tight.

9.4 Compressed air connection

9.4.1 Compressed air quality

- · Oil and water-free
- Free of debris
- Pressure for SFK: p = 6 bar
- Refer to PNEUROP 6611/1984 for quality grades

9.4.2 2/2-way valve connection

A: Jet pulse nozzle P: Pressure vessel

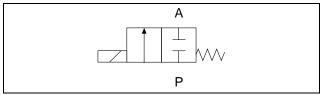


Fig. 9: Connection diagram for the 2/2-way valves

9.4.3 Compressed air connection

Install a pressure reducing valve and filter near the dust removal filter if necessary.



Install a suitable compressed air shut-off valve at an easily accessible point.

• Connect compressed air (1/2") to the dust removal filter.

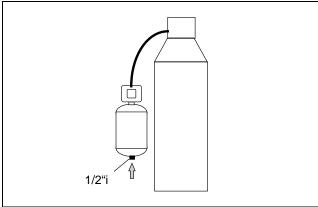


Fig. 10: Compressed air connection

9.5 Electrical connections

DANGER!



Danger of electric shock!

- ⇒ Risk of serious or fatal injury in case of contact with electrical components.
- All electrical installation work must be carried out by a suitably qualified electrician.

△ WARNING!

EX

Explosion hazard!

- ⇒ Risk of injury to persons or damage to property
- Connect a protective earth conductor.
- Comply with the permissible ambient temperature.

△ WARNING!

Explosion hazard!

- \Rightarrow Risk of injury to persons or damage to property
- Check the conductivity between all components!
 - Maximum permissible resistance:
 R < 10 Ω.
 - Make sure that earthing is provided by the customer.

9.5.1 2/2-way valve connection

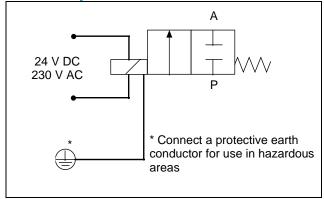
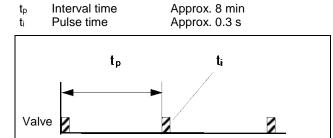


Fig. 11: Electrical connection of the 2/2-way valves

9.6 Cleaning control

The cartridge is cleaned periodically. The pulse and interval times vary according to the process. The times indicated below are recommended standard values.



Time

Fig. 12: Periodic cleaning

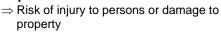
10 Start-up

A DANGER!

This FG dust removal filter is not allowed to be put into operation until it has been established that the machine/system in which it is to be installed complies with the requirements of the applicable EC directives, harmonised standards, European standards or equivalent national standards.

⚠ WARNING!

Explosion hazard!





- Check the conductivity between all components!
- Maximum permissible resistance R < 10 Ω.
- Make sure that earthing is provided by the customer.

10.1 Initial start-up or start-up after a prolonged shut-down

- Inspect all system parts.
- Remove all parts that do not belong to the system (such as tools, installation waste, etc.)
- Check the pipe connections (e.g. clamps).
- Tighten all screws and bolts.

10.2 Starting up the dust removal filter

CAUTION

If the maximum permissible volumetric flow is exceeded

- ⇒ Risk of damage to the cartridges.
- Be careful not to exceed the maximum permissible volumetric flow when the system is started up.
- Turn on the compressed air supply.
- Switch on the controller.
- · Start up the dusty system.
- Throttle the volumetric flow if necessary.

11 **Normal operation**

MARNING!

Explosion hazard!



- ⇒ Risk of injury to persons or damage to property
- Check the conductivity between all components!
- Maximum permissible resistance: $R < 10 \Omega$.
- Make sure that earthing is provided by the customer.

The dust removal filter works automatically during normal operation with a suitable FG filter controller.



The dust removal filter must be monitored in accordance with the repair and maintenance schedule (refer to section 14.1)!

11.1 General information about emptying dust

⚠ WARNING! If harmful substances are inhaled



Suitable protective equipment should be worn whenever dust is emptied.



- Always dispose of dust in a manner which does not pollute the environment!
- Interrupt the volumetric flow.
- Start a manual cleaning cycle.
- Take steps to prevent the complete plant from being inadvertently switched on again.
- Wear personal protective equipment.









12 Shutting down the dust removal filter

12.1 Temporary shut-down

- Switch off the fan or shut down the dusty system.
- Turn off the compressed air supply.

12.2 Prolonged shut-down (> 48 h)

- Start a manual cleaning cycle.
- Switch off the fan or shut down the dusty system.
- Turn off the compressed air supply.
- Decompress the pressure vessel (e.g. by starting a manual cleaning cycle).
- Carry out the maintenance work as described in section 14.1).

12.3 Emergency shut-down

· Actuate the EMERGENCY STOP button provided by the customer.

13 **Troubleshooting**

Fault	Possible cause	Remedy
Insufficient fan	Direction of	Reverse the
power on start-	rotation incorrect	direction of
up		rotation
Reduced	Not enough	Check the
suction capacity	compressed air	compressed air
		pressure
		(6 bar for SFK)
	Cartridges	Check the
	clogged	cartridges and if
		necessary renew
		them
	Cleaning	Check the
	ineffective	controller
		Check the
		compressed air
		pressure
		(6 bar for SFK)
	Pipe clogged	Open the pipe and
		if necessary clean
		it
	Cleaning	Clean more
	inadequate	frequently
	Cartridges	Try alternative
	unsuitable	cartridges (e.g.
		PTFE coated)
Dust	Cartridge seat not	Tighten the
accumulation	tight	cartridges
on cleaned gas	Cartridges	Check the
side	damaged	cartridges for
		cracks/holes and if
		necessary renew
		them
	Filter plate not	Check the filter
	tight	plate
		Renew the seal

• For all other faults, please call FG Customer Service.

14 Maintenance

A DANGER!

Explosion hazard!



- ⇒ Risk of injury to persons or damage to property
- Work is only allowed to be carried out in hazardous areas if appropriate safety precautions are implemented.
- Safety precautions must be implemented by the owner.

△ WARNING!

If the system is maintained by unauthorised persons

- ⇒ Risk of injury
- ⇒ All warranty claims are rendered invalid
- The system must be maintained by a suitably trained person!

Before all maintenance work:

- Shut down the dust removal filter/system.
- Clean the cartridges in a rapid cleaning cycle.
- Turn off the compressed air supply.
- Decompress the pressure vessel (e.g. by starting a manual cleaning cycle).
- Take steps to prevent the machine/system from being switched on again by unauthorised persons.









- Wear protective clothing and equipment appropriate to the hazard potential of the medium (e.g. goggles, respirator, protective clothing, etc.).
- · Carry out the maintenance work.
- Start up the dust removal filter/system again.
- Observe the dust removal filter/system.
 Does it operate normally?
- If the filter/system does not operate normally, refer to the troubleshooting table (section 13).

14.1 Inspection and maintenance schedule

Refer also to the contract documentation.

Interval	Component	Activity
Weekly	Dust removal filter	Carry out a visual
		inspection of the
		exterior
	Compressed-air	Carry out a visual
	maintenance unit	inspection of the
		water separator and
	D	drain if necessary
	Dust bucket/bag	Carry out a visual
		inspection and empty
		if necessary ¹
Monthly	Cartridges	Check the assembly
		torque (> 6 Nm)
		Carry out a visual
		inspection for cracks
	Clamping bands	Carry out a visual
		inspection for
		corrosion
	Bolted clamping	Carry out a visual
	bands	inspection for
		corrosion
	Bolted flanges	Carry out a visual
		inspection for
		corrosion
	Dust removal filter	Check the
EX		conductivity between
		all components.
		Note the maximum
		permissible
		resistance: R < 10 Ω
Yearly	Compressed air	Check
	connections	
	Cartridges	Check the
		conductivity between
		all components.
		Note the maximum
		permissible
	1	resistance: R < 10 Ω
	The necessary main	
		articular application.
	Please consult the ma	anufacturer if necessary.

Check more frequently if large amounts of dust accumulate.

14.2 Replacing the cartridges

DANGER!

Explosion hazard!

- ⇒ Risk of injury to persons or damage to property
- Check the conductivity between all components!
- Maximum permissible resistance: $R < 10 \Omega$.
- Make sure that earthing is provided by the customer.
- Interrupt the volumetric flow.
- Start a rapid cleaning cycle (clean each cartridge twice).
- Take steps to prevent the complete system from being inadvertently switched on again.
- Wear personal protective equipment.
- After approximately 5 minutes (time required for the dust to settle), bang hard on the maintenance door, so that any accumulated dust drops down to the bottom.
- · Open the maintenance door.
- · Remove any debris with a hand brush.
- Apply a closed hexagon spanner to the end cap on the bottom of the cartridge (a/f 24, galvanized cartridges
- Unscrew the cartridge anti-clockwise.
- Fit a new, original cartridge onto the thread and screw it on loosely.
- Tighten with a torque spanner (approx. 6 Nm).
- Dispose of the contaminated cartridge in a manner which does not pollute the environment.

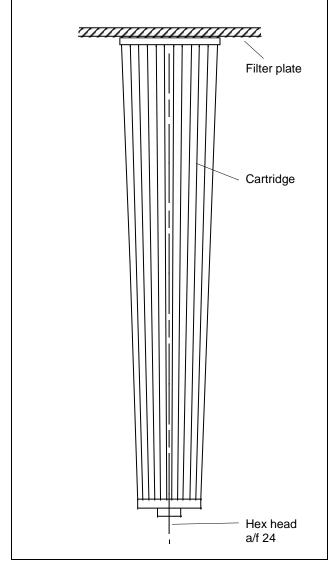


Fig. 13: Replacing an RFK/SFK cartridge

15 Type number key

XXX	-)	ΚX	XXX	XXXXXX	XXX	XX	XX	XX	*EXXXXXXXX	40digits
1	4 5	5	8	12	19	23	26	29	31	No.
1		2	3	4	5	6	7	8	9	
1	(3 di	Unit type (3 digits) SF Jet pulse filter with pressure cleaning SFR - Jet pulse filter with rotating wings SFK - Jet pulse filter with conical cartridges RFK - Vibrating filter with conical cartridges RF Vibrating filter AF Non-cleanable filter ("absolute" filter) AFK - Non-cleanable filter with conical cartridges ("absolute" filter) NFK - Jet pulse filter with conical cartridges and post-filter stage NF Jet pulse filter with rotating wings and post-filter stage								
-{}-2		ridge type igits)	/ installatio	on position (refer t	to Append	ix)				Reserved for FG product designation
3	Nun	nber of car	tridges(3 d	igits)						ser
4		ensions igits)	Rectangu e.g. 016x ² Round un	16 → its	Length x w 1600 x 160 Diameter i	00 mm n [cm]				Res
6	e.g. DN-100 → Nominal diameter 1000 mm Type of construction (3 digits) Standard type with bucket Standard type with bucket Standard type with drawer Standard type with drawer Standard type with drawer Standard type with one Standard type with bottom Standard typ							Provided for customer's designation in case of special custom versions (to be agreed between customer, IISE and IIDE – separate sheet required!)		
7	Fan: (2 di	igits) Without fan								customer's designation
8	(2 d	SO - Special (refer to basic data and/or drawing) Variants (2 digits) 1st digit 2nd digit								
In case of more than one matching criterion, the higher digit takes priority	S K	- Custo (acc. to info te: 9 - Specia	xt) al versions o drawing,			B - Wit T - Pre A - Bas E - Ear Z - Wit	c -0.4 bar h rupture ssure bur sic version thed/capa h controll	rst proof en acc. to able of ele er		Provided for (to be
9		ridge digits)		erial no. of integra cartridge types: *			of cartrido	ge used ir	n first filter stage	FG design.

	Keys for	r the c	artridge	type and	d instal	lation posit	ion
Key	Cart. type	Cart. diam.	Cart. length	Alternative	Inst. pos.	Installation	Comments
XX	Designation			still at project s			
00		Other ca	rtridge types		Upright	Untreated gas side	
01	852 902	120	300 852 838		Upright	Untreated gas side	RD 72x5
02	852 903	120	600		Upright	Untreated gas side	RD 72x5
03	852 904	120	1000		Upright	Untreated gas side	RD 72x5
04	852 907	328	300		Upright	Untreated gas side	Tie bolt, RLD
05	852 908	328	600 852 782,	852 844,	Upright	Untreated gas side	Tie bolt, RLD
06	852 909	328	1000		Upright	Untreated gas side	Tie bolt, RLD
07	852 030	328	1000 852 958	3	Upright	Untreated gas side	Bayonet
80	2 x 852 908	328	1200 852 758	3 + 852 782	Upright	Untreated gas side	Tie bolt, RLD
09	852 032	328	1200		Upright	Untreated gas side	Quick-Lock
10 11	852 054	160	1000		Upright	Untreated gas side	RD 100x4
20		Other car	rtridge types		Upright	Cleaned gas side	
21	852 829	Othor out	300		Upright	Cleaned gas side	
22	852 781		600		Upright	Cleaned gas side	
23	852 943		983		Upright	Cleaned gas side	
24					Upright	Cleaned gas side	
25	852 903	120	600		Upright	Cleaned gas side	With adapter
26	852 904	120	982		Upright	Cleaned gas side	With adapter
27	852 931	160	1000 852 953	3	Upright	Cleaned gas side	·
30	852 931	160	1000 852 953	3	Upright	Untreated gas side	With adapter
50		Other ca	rtridge types		Horizontal	Untreated gas side	
51	852 902		300 852 838			Untreated gas side	RD 72x5
52	852 903		600		Horizontal	Untreated gas side	RD 72x5
53	852 904		1000		Horizontal	Untreated gas side	RD 72x5
54							
55	852 054		1000		Horizontal	Untreated gas side	RD 100x4
61	852 907		300		Horizontal	Untreated gas side	Tie bolt
62	852 908		600		Horizontal	Untreated gas side	Tie bolt
63	852 909		1000		Horizontal	Untreated gas side	Tie bolt
64						Untreated gas side	
65	2 x 852 908		1200		Horizontal	Untreated gas side	Tripod
70		Other ca	rtridge types		Horizontal	Cleaned gas side	
99			Other varian	ts			

Examples:

SFR unit with AE-2E,18 type 852 908 cartridges, rectangular 1600x1600 mm base, dust drawer, sound absorbing cover, powder coated RAL 7035, VR 76 fan, custom version / Ex protection, cartridge material no. 79355447
SFR unit with conical cartridges, 21 type 852 931 cartridges, rectangular 1000x1600 mm base, dust drawer, sound absorbing cover, powder coated RAL 7035, VR 65 fan, standard version / time control, cartridge material no. 78386559
SFK unit with conical cartridges, 15 type 852 903 cartridges, round DN 730 mm, flanged body-type filter, weather-proof cap, stainless steel 1.4401 or equivalent, VR 25 fan, standard version / flameproof, cartridge material no. 78345811
SFK unit with conical cartridges, 8 type 852 904 cartridges, round DN 530 mm, flanged body-type filter, weather-proof cap, stainless steel 1.4301 or equivalent, without fan, standard version / rupture disc, cartridge material no. 79355645

16 Cartridges used

2

3

4

No.	Qty.	Designation	documentation, offer/order confirmation) FG Mat. No.	Material
1				
'				
2				
3				
4				
hang	ed cartridges:			
Date:			Changed by:	
No.	Qty.	Designation	FG Mat. No.	Material
1				
2				
3				
4				
Changed cartridges: Date:			Changed by:	
	01::	Declaration	FG Mat. No.	Material
No.	Qty.	Designation	FG Mat. No.	wateriai
1				
2				
3				
4				
hang	ed cartridges:	<u> </u>	Ta:	
Date:			Changed by:	
No.	Qty.	Designation	FG Mat. No.	Material
1				

17 Manufacturer's declaration

EU – Herstellererklärung EU declaration of the manufacturer Déclaration du fabricant UE



Der Hersteller The manufacturer Le producteur Filtration Group GmbH Schleifbachweg 45 74613 Öhringen Telefon 07941 6466-0 Telefax 07941 6466-429

erklärt hiermit, dass das folgende Produkt hereby declares that the following product déclare par la présente que le produit suivant

Produktbezeichnung: Product designation: Désignation du produit : Typenbezeichung: Type designation: Désignation du type : Druckluftbehälter Pressure tank Récipient air comprimé

DRUCKBE-01 - 08

der einschlägigen Bestimmung der Richtlinie 2014/29/EU einfache Druckbehälter entspricht. conforms to the relevant provisions of the 2014/29/EU simple pressure tank. répond les dispositions applicables 2014/29/UE.

Folgende harmonisierten Normen wurden angewandt: The following harmonised standards have been used: Les normes harmonisées ci-dessous ont été appliquées :

DIN EN 286-1

Unterzeichner: Signatory: Signataire :

Wolfram Zuck Dipl.-Ing. (FH) Industrial Engineering Managing Director, Plant Manager Öhringen

Öhringen,

Datum/Date/Date

Unterschrift/Signature/Signataire

Declaration of conformity

EU - Konformitätserklärung EU declaration of conformity Déclaration de conformité UE



Der Hersteller The manufacturer Le producteur

Filtration Group GmbH Schleifbachweg 45 74613 Öhringen Telefon 07941 6466-0 Telefax 07941 6466-429

erklärt hiermit, dass das folgende Produkt hereby declares that the following product déclare par la présente que le produit suivant

Produktbezeichnung: Product designation: Désignation du produit : Typenbezeichung: Type designation: Désignation du type : Funktionsbeschreibung: Machine description:

Description du fonctionnement :

Entstaubungsgerät Dépoussiéreur

SFR/SF./SFK/RFK/RF./AFK/NFK/NF./NFR

Filtration von Feststoffen Filtration of solids Filtration de solides

allen wesentlichen Schutzanforderungen der Ex- Richtlinie entspricht. conforms to all the basic requirements of the Ex-directive. répond à toutes les exigences essentielles de la Ex-directive .

19.06.001+

Ex-Richtlinie 2014/34/EU

Unterzeichner: Signatory: Signataire :

Öhringen,

Datum/Date/Date

Wolfram Zuck Dipl.-Ing. (FH) Industrial Engineering Managing Director, Plant Manager Öhringen

Unterschrift/Signature/Signataire

19 Declaration of incorporation

As defined by the EC Machinery Directive.

EU – Einbauerklärung EU Declaration of incorporation Déclaration relative au montage UE



Der Hersteller The manufacturer Le producteur Filtration Group GmbH Schleifbachweg 45 74613 Öhringen Telefon 07941 6466-0 Telefax 07941 6466-429

erklärt hiermit, dass das folgende Produkt hereby declares that the following product déclare par la présente que le produit suivant

Produktbezeichnung:
Product designation:
Désignation du produit :
Typenbezeichung:
Type designation:
Désignation du type :
Funktionsbeschreibung:
Machine description:
Description du fonctionnement :

Entstaubungsgerät Dust collector Dépoussiéreur

SFR/SF./SFK/RFK/RF./AFK/NFK/NF./NFR

Filtration von Feststoffen Filtration of solids Filtration de solides

den in der Anlage dargestellten grundlegenden Anforderungen der Richtlinie 2006/42/EU entspricht. conforms to the essential requirements of the Machinery Directive 2006/42/EU pursuant to the Annex. répond aux exigences fondamentales de la directive 2006/42/UE, décrites en annexe.

Die unvollständige Maschine darf erst dann in Betrieb genommen werden, wenn festgestellt wurde, dass die Maschine, in die die unvollständige Maschine eingebaut werden soll, den Bestimmungen der Richtlinie 2006/42/EU über Maschinen entspricht.

The partly completed machinery must not be put into service until the relevant machinery into which this partly completed machinery is to be incorporated has been declared in conformity with the Machinery Directive 2006/42/EU.

La machine incomplète ne doit être mise en service qu'après avoir déterminé que la machine, dans laquelle la machine incomplète doit être montée, correspond aux dispositions de la directive machines 2006/42/UE.

Folgende harmonisierten Normen wurden angewandt: The following harmonised standards have been used: Les normes harmonisées ci-dessous ont été appliquées :

9.06 2017

DIN EN ISO 12100:2011-03, DIN EN ISO 4414:2011-04

Der Hersteller verpflichtet sich, die speziellen Unterlagen zur unvollständigen Maschine, einzelstaatlichen Stellen auf Verlangen schriftlich zu übermitteln. Die zur Maschine gehörenden speziellen technischen Unterlagen nach Anhang VII Teil B wurden erstellt.

The manufacturer undertakes to transmit any specific documentation on the partly completed machinery to the appropriate national authorities in writing on request. All specific technical documentation belonging to the machinery has been compiled pursuant to Annex VII Section B.

Le fabricant s'engage à transmettre les documents spécifiques à la machine incomplète par écrit aux administrations nationales respectives sur leur demande. Les documents techniques spécifiques selon Annexe VII partie B faisant partie de la machine ont été établis.

Dokumentationsverantwortlicher/Abteilung: Responsible for documentation/department: Responsable de la documentation/Service:

Filtration Group GmbH Schleifbachweg 45 74613 Öhringen

Unterzeichner: Signatory: Signataire :

Wolfram Zuck Dipl.-Ing. (FH) Industrial Engineering Managing Director, Plant Manager Öhringen

Öhringen,

Datum/Date/Date

Unterschrift/Signature/Signature

Anlage/Annex/Annexe

3 Seiten/pages/pages

Anlage zur Einbauerklärung gemäß Richtlinie 2006/42/EU für Entstaubungsgeräte Annex to the Declaration of Incorporation pursuant to the Machinery Directive 2006/42/EU for dust collectors Annexe à la déclaration de montage selon la directive 2006/42/UE pour les dépoussiéreurs Beschreibung der grundlegenden Sicherheits- und Gesundheitsschutzanforderungen (soweit zutreffend) gemäß 2006/42/EU, Anhang 1, die zur Anwendung kommen und eingehalten wurden. List of the essential health and safety requirements (where applicable) pursuant to 2006/42/EU, Annex 1, applied and fulfilled. Description des exigences fondamentales relatives à la sécurité et à la protection de la santé (si applicables) selon 2006/42/UE, annexe 1, appliquées et respectées.



Grundlegende Anforderung Essential requirements Exigence fondamentale	Erfüllt Fulfilled Remplie
Grundsätze für die Integration der Sicherheit	ja
Principles of safety integration	yes
Principes d'intégration de la sécurité	oui
Materialien und Produkte	ia
Materials and products	yes
Matériaux et produits	oui
Construktion der Maschine im Hinblick auf die Handhabung	ia
Design of machinery to facilitate its handling	yes
Construction de la machine au regard de sa manipulation	oui
Steuerungen und Befehlseinrichtungen	nein
Control systems	no
Commandes et dispositifs de commande	non
Risiko des Verlusts der Standsicherheit	ja
Risk of loss of stability	yes
Risque de perte de la stabilité statique	oui
Bruchrisiko beim Betrieb	ja
Risk of break-up during operation	yes
Risque de rupture en fonctionnement	oui
Risiken durch herabfallende oder herausgeschleuderte Gegenstände	ja
Risks due to falling or ejected objects	yes
Risques dus à la chute ou à l'éjection d'objets	oui
Risiken durch Oberflächen, Kanten und Ecken	ja
Risks due to surfaces, edges or angles	yes
Risques dus aux surfaces, arêtes et angles	oui
Risiken durch Änderung der Verwendungsbedingungen	ja
Risks related to variations in operating conditions	yes
Risques dus à la modification des conditions d'utilisation	oui
Risiken durch bewegliche Teile	ja
Risks related to moving parts	yes
Risques dus à des parties mobiles	oui
Nahl der Schutzeinrichtung gegen Risiken durch bewegliche Teile	ja
Choice of protection against risks arising from moving parts	yes
Choix du dispositif de protection contre les risques dus à des parties mobiles	oui
Risiko unkontrollierter Bewegungen	ja
Risks of uncontrolled movements	yes
Risque de mouvements incontrôlés	oui
nforderungen an Schutzeinrichtungen	nein
Required characteristics of guards and protective devices	no
xigences relatives aux dispositifs de protection	non
Elektrische Energieversorgung	ja
lectricity supply	yes
limentation électrique	oui
Statische Elektrizität	ja
Static electricity	yes
Electricité statique	oui

Nichtelektrische Energieversorgung	ja
Energy supply other than electricity	yes
Alimentation en énergie non-électrique	oui
Montagefehler	ja
Errors of fitting Erreurs de montage	yes
	oui
Extreme Temperaturen Extreme temperatures	ja
Températures extrêmes	yes
Brand	ja
Fire	yes
ncendie	oui
Explosion	ja
Explosion	yes
Explosion	oui
Lärm	ja
Noise	yes
Bruit	oui
Vibrationen	ja
Vibrations	yes
Vibrations	oui
Strahlung	ja
Radiation	yes
Rayonnement	oui
Strahlung von außen External radiation	ja
External radiation Rayonnement depuis l'extérieur	yes oui
Emission gefährlicher Werkstoffe und Substanzen	
Emissions of hazardous materials and substances	ja yes
Emission de substances et matériaux dangereux	oui
Risiko, in eine Maschine eingeschlossen zu werden	nein
Risk of being trapped in a machine	no
Risque de se faire enfermer dans une machine	non
Ausrutsch-, Stolper- und Sturzrisiko	nein
Risk of slipping, tripping or falling	no
Risque de dérapage, de trébuchement et de chute	non
Blitzschlag	nein
Lightning	no
Foudre	non
Nartung der Maschine	nein
Machinery maintenance	no
Intretien de la machine	non
Zugang zu den Bedienungsständen und den Eingriffspunkten für die Instandhaltung	nein
Access to operating positions and servicing points	no
Accès aux postes de commande et aux points d'intervention pour la maintenance	non
rennung von den Energiequellen solation of energy sources	nein
Séparation des sources d'énergie	no
ingriffe des Bedienungspersonals	
Operator intervention	ja yes
nterventions des opérateurs	oui
Reinigung innen liegender Maschinenteile	nein
Cleaning of internal parts	no
lettoyage de parties internes de la machine	non
nformationen und Warnhinweise an der Maschine	ja
nformation and warnings on the machinery	yes
nformations et avertissements sur la machine	oui
Varnung vor Restrisiken	ja
Varning of residual risks	yes
vertissement quant aux risques résiduels	oui
Gennzeichnung der Maschinen	nein
Marking of machinery	no
Marquage des machines	non

Betriebsanleitung	ja
Instructions	yes
Mode d'emploi	oui
Nahrungsmittelmaschinen und Maschinen für kosmetische oder pharmazeutische Erzeugnisse	nein
Foodstuffs machinery and machinery for cosmetics or pharmaceutical products	no
Machines pour denrées alimentaires et machines pour produits cosmétiques ou pharmaceutiques	non
Handgehaltene und/oder handgeführte tragbare Maschinen	ja
Portable hand-held and/or hand-guided machinery	yes
Machines tenues à la main et/ou portables guidées à la main	oui

21 Index

.4, 6, 10, 11, 12, 15
5
5, 6, 10, 11, 12
6, 8, 10, 11
7, 9, 10, 11, 12
4
3
5
3
10
12
10

Leakage	2
Maintenance	.12 2, 4
Pressure difference	
R Residual dust content	2
Safety instructions	6
W Warnings	3





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