# **Separators and rotary valves**

Cyclones Separators Rotary valves Gear motors Cutters



# FA cyclones



#### FA cyclones

The FA cyclone is a high performance separator that ensures an effective separation of fine and heavy particles. Entirely welded, the FA cyclone is made of 2 and 3 mm sheet metal, painted with anti-rust paint and topcoat of epoxy paint.

#### Accessories

- · Support legs with connection at the base of the cone
- 90 L dust bucket
- · Connection piece for rotary valve
- Expansion chamber
- Leg extensions for Big-Bag use

Top view - LEFT version

• In- and outlet pieces

#### Material

St 37.2 black steel powder coated RAL 5010, temperature resistance : +80°C.

#### Type

2 mm rolled plates welded together. Hopper and body assembled by bolts.

#### Options

- Stainless steel (AISI 304L or 316L)
- Galvanized
- Reinforced
- Other legs
- Inspection door
- Other RAL colors
- Removable wear plate on inlet



A : Optimum working range

С Model Α В D Е F Int. ØG Int. ØH Int. ØI J κ Weight s (mm) kg FA 20 230 100 645 820 1465 570 225 400 160 234 240 25.0 2 FA 35 285 125 770 1020 1790 710 250 500 200 290 300 2 35.0 350 FA 50 160 770 1020 1790 710 250 500 200 308 300 2 36.0 445 2 FA 65 200 1095 1405 2500 998 400 710 300 419 420 70.0 FA 100 560 300 1675 2050 3725 1490 550 1000 400 615 600 2 143.0 FA 130 750 400 2270 2820 2000 1250 700 3 339.0 5090 700 450 782 FA 160 1100 500 2270 3150 5420 2000 800 1600 550 1050 900 3 479.0 FA 180 1500 500 2800 3450 6250 2500 1000 1800 630 1150 950 3 682.0



# FA cyclones





FA cyclone dust bucket with flexible connection

a2

Upper outlet flange

a1

a3



FA cyclone with legs and dust bucket



FA cyclone dust bucket (heavy model)





FA cyclone expansion chamber with leg extensions



FA cyclone expansion chamber for a better air/particles separation



Model	Air volume	Uppe	Upper outlet flange		Low	Lower outlet flange			Square inlet flange			
	(m³/h)	Øa1	a2	Ø a3	Øb1	b2	Øb3	c1	c2	c3	c4	Øc5
FA 20	0,1	260	25	12 x 9.5	195	25	8 x 9.5	70	2 x 70	90	3x 90	13
FA 35	0,3	285	25	12 x 9.5	235	25	12 x 9.5	82,5	2x 82.5	108	3x 108	13
FA 50	0,3	285	25	12 x 9.5	235	25	12 x 9.5	100	2x 100	97.5	4x 97.5	13
FA 65	0,7	439	30	16 x 11.5	336	25	12 x 9.5	80	3x 80	97	5x 97	13
FA 100	2,1	590	30	16 x 11.5	439	30	16 x 11.5	113	3x 113	100	6x 100	13
FA 130	4,3	750	40	24 x 11.5	489	30	16 x 11.5	110	4x 110	99	8x 99	13
FA 160	7,3	850	40	24 x 11.5	590	30	16 x 11.5	108	5x 108	104	11x 104	13
FA 180	11,0	1050	40	24 x 11.5	670	30	24 x 11.5	108	5x 108	103	15x 103	13



# FA cyclones

# Working principle of flow through FA cyclone :





# FS cyclones





# FS cyclones

Used in the paper industry, wood industry and cardboard industry Agricultural industry is also a main industry for this type of cyclone. Generally the FS cyclone is suitable for all installations that do not require a high performance separation.

The airflow is controlled by an integrated throttle valve.

#### Accessories

- Support legs with connection at the base of the cone
- 90 L dust bucket
- Connection piece for rotary valve
- Leg extensions for Big-Bag use
- In- and outlet pieces

#### Material

Sendzimir galvanized steel with integrated throttle valve, temperature resistance : +80°C.

## Туре

1.25 mm or 2 mm rolled plates welded together. Hopper and body assembled by bolts.

#### Options

- Stainless steel (AISI 304L or 316L)
- Painted
- Reinforced
- Other legs
- Inspection door
- Removable wear plate on inlet



Top view - LEFT version

Top view - RIGHT version

Specify when ordering: left (L) or right (R) execution.



A : Optimum working range

Model	Α	В	С	D	E	F	ø G (int.)	ø H (int.)	ø I (int.)	J	К	s	Weight
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	kg						
FS 3	300	200	830	1150	1980	640	350	800	200	302	420	1,25	68.0
FS 4	350	250	1150	1130	2280	740	400	900	200	325	500	1,25	83.0
FS 6	400	300	1080	1500	2580	840	450	1120	250	411	580	1,25	112.0
FS 8	450	350	1230	1700	2930	950	500	1250	250	451	675	1,25	147.0
FS 11	530	400	1410	1900	3310	1130	600	1600	300	601	790	1,25	206.0
FS 16	640	480	1700	1900	3600	1350	700	1800	300	661	970	1,25	252.0
FS 20	800	500	1750	1700	3450	1410	1000	2000	400	750	980	2	409.0



# FS cyclones













Model	Air volume	Upper	outlet	flange		Lowe	r outlet f	lange			Squa	re inle	et flange	
	(m³/h)	Ød1	d2	Ød3	d4	Øc1	c2	Øc3	<b>c4</b>	e1	e2	e3	e4	e5
FS 3	0,5	415	30	389	12 x ø11.5	255	25	235	8 x ø9.5	120	2 x 120	113	3 x 113	ø 11.5
FS 4	0,7	465	30	439	16 x ø11.5	255	25	235	8 x ø9.5	97	3 x 97	97,5	4 x 97.5	ø 11.5
FS 6	1,4	515	30	489	16 x ø11.5	305	25	285	12 x ø9.5	113	3 x 113	110	4 x 110	ø 11.5
FS 8	1,9	565	30	540	16 x ø11.5	305	25	285	12 x ø9.5	97,5	4 X 97.5	490	5 X 98	ø 11.5
FS 11	3,6	665	30	640	16 x ø11.5	355	25	336	12 x ø9.5	110	4 x 110	114	5 X 114	ø 11.5
FS 16	4,7	785	40	750	24 x ø11.5	355	25	336	12 x ø9.5	104	104 X 5	113	6 X 113	ø 11.5
FS 20	6.1	1085	40	1050	24 x ø11.5	465	30	439	16 x ø11.5	108	5 X 108	105	105 X 108	ø 11.5



# FS cyclones

# Working principle of flow through FS cyclone :





# FK cyclones



## **FK cyclones**

Used for granules in the plastic industry. Generally the FK cyclone is suitable for all installations that do not require a high performance separation.

## Material

Sendzimir galvanized steel, temperature resistance : +80°C.

# Туре

1 mm rolled plates welded together. Hopper and body lockformed.

#### Options

- Stainless steel (AISI 304L or 316L)
- Painted
- Reinforced



Top view - LEFT version

Top view - RIGHT version

Specify when ordering: left (L) or right (R) execution.

Model	Air volume	L1	Ø d1	Ø d2	Ø d3	Ø d4	S
	(m³/h)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
FK 1	1100 -> 2000	800	150	160	150	600	1.0
FK 2	1300 -> 2300	830	200	160	160	600	1.0
FK 3	1300 -> 2000	500	200	160	160	600	1.0



# **RVA Rotary valves**



## **RVA** rotary valves

The RVA rotary valves are designed to discharge dust and other materials from filters and cyclones and treat volumes ranging from 10 to 83 m<sup>3</sup>/h. They are equipped with a visual rotation indicator.

These rotary valves are produced according to the following

- harmonized directives/standards :
- 2006/42/EC ; Machine directive
- 2014/35/EC ; Low voltage directive
- 2014/30/EC ; Electromagnetic compatibility directive

# Accessories

- Rotation detectors
- Counter flanges
- Replacement rubber blades
- Transport and discharge pipes



# Material

St 37.2 black steel with primary paint and epoxy powder coating RAL 5010, temperature resistance : +80°C.

6 chamber rotor with rubber blades, temperature range -30°C up to +70°C.

#### Туре

3 mm rolled plates welded together. End plates bolted to the body.

# Options

- Galvanized
- Stainless steel (AISI 304L or 316L)
- Other motor powers
- Other RAL colors
- Other blades





Model	Discharge volume	Rot. speed	Mot. power	А	В	С	D	E	F	C modular	Weight
	(m³/h) <sup>1)</sup>	(rpm)	(kW)	(mm)	(kg)						
RVA1-NX-06	10	21	0.37	250	316	150	286	434	772	1 x 150	48
RVA2-NX-06	20	21	0.55	500	566	450	536	434	1129	3 x 150	63
RVA3-NX-06	32	21	0.55	750	816	600	786	434	1379	4 x 150	77
RVA4-NX-06	42	21	0.55	1000	1066	900	1036	434	1629	6 x 150	91
RVA5-NX-06	63	21	0.55	1500	1566	1350	1536	434	2129	9 x 150	119

<sup>1)</sup> Volume output at 50% degree of filling



# **RVA** Rotary valves



## Components list for rotary valve type RVA

Please only use original components to garantee a worry free functionning of the rotary valves.

#	Part	Description
1	Body	ST37, powder coated RAL 5010
2	Bearing housing	Cast iron square- flanges housing
3	Cover	ST37, powder coated RAL 5010
4	Rotation disk cover	ST37, powder coated RAL 5010
5	Detector holder	Galvanized steel
6	Rotation disc	Galvanized steel
7	Motor and gear	0.37kW or 0.55kW
8	Bolts M5 x 10	Galvanized steel
9	Rotation detector	Two options (see below)
10	Rotor	6 rubber blades rotor supported by metal axle, powder coated, incl. felt rings
11	Bolts and Washers M8	Galvanized steel
12	Bolts, nuts and Washers M8	Galvanized steel



## Position detector for rotary valve type RVA

Туре	Housing	Output function	Output	System	Connection	Mounting	Sensing range
Housing Fork Shaped detector	16 x 20 x 1	NO (Normally Open)	DC NPN	Proximity Sensor	Cable	-	-
M18 Housing detector	M18 x 50	NC (Normally closed)	DC NAMUR	Proximity Sensor	Cable	Flush	From 4 to 6 mm



## **RVA-X ATEX Rotary valves**



# **RVA-X ATEX** rotary valves

The RVA-X ATEX rotary valves are designed to discharge dust and other materials from filters and cyclones and treat volumes ranging from 9 to 35 m<sup>3</sup>/h. They are equipped with a visual rotation indicator.

These rotary valves are produced according to the following

- harmonized Directives/Standards :
- 2014/34/EC : ATEX Directive
- 2006/42/EC : Machine Directive
- 2014/35/EC : Low voltage Directive
- 2014/30/EC : Electromagnetic compatibility Directive

And are available in ATEX executions :

- RVA\*-X1-06 : ATEX Zone 20 interior / Zone 21 exterior
- RVA\*-X2-06 : ATEX Zone 20 interior / Zone 22 exterior
- RVA\*-X3-06 : ATEX Zone 20 interior / Safe zone exterior



## Material

St 37.2 black steel with primary paint and epoxy powder coating RAL 3020, temperature resistance : +80°C.

6 chamber rotor with rubber blades, Temperature range -20°C up to +60°C.

#### Туре

3 mm rolled plates welded together, end plates bolted to the body. St1 (Kst 200 Bar m/s), MIE  $\geq$  13 mJ, MIT  $\geq$  430°C.

#### Options

• Other RAL colors

#### Accessories

- Rotation detector
- Counter flanges
- Replacement rubber blades
- Transport and discharge pipes





Model	Discharge volume (m³/h) <sup>1)</sup>	Rot. speed (rpm)	Mot. power (kW)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	C modular (mm)	Weight (kg)
RVA1-Xi-06	9	19	0.37	250	316	150	286	418	782	1 x 150	48
RVA2-Xi-06	17	19	0.55	500	566	450	536	494	1108	3 x 150	74
RVA3-Xi-06	26	19	0.55	750	816	600	786	494	1359	4 x 150	91
RVA4-Xi-06	35	19	0.55	1000	1066	900	1036	494	1609	6 x 150	107

<sup>1)</sup> Volume output at 50% degree of filling

 $^{\rm i)}$  1, 2 or 3 according to ATEX marking on the rotary valve



# RVA-X ATEX Rotary valves



## Components list for ATEX rotary valve type RVA-X

Please only use original components to garantee a worry free functionning of the rotary valves.

#	Part	Description
1	Bolt set for rotation disc cover	Bolts and washers M5 (4 pieces)
3	Rotating disc cover	Steel cover powder coated in RAL 5010
4	Bolt set for rotation disc	Bolt and washer for rotation disc
6	Rotation disc	Rotation disc powder coated in RAL 3020
7	Bolt set for flanged bearing	Bolts and washers M10 (4 pieces)
9	Bearing	Flanged bearing
10	Sensor holder	Sensor holder
11	Bolts set for front cover plate	Bolts, nuts and washers M8 (8 pieces)
13	Rotary valve body	Steel casing powder coated in RAL 5010
15	Rotary valve rotor	Steel rotor
16	Rotor blades for RVA-X rotary valve	Set of 6 neoprene rotor blade
17	Bolt set for rotor	Bolts, nuts and washers M6
20	Rotor vane reinforcement	Set of 6 vane reinforcements
21	Felt ring set	Felt ring (2 pieces)
22	Butyl strip	Butyl strip (1m)
23	Rear cover plate	Steel rear cover powder coated in RAL 5010
24	Bolt set for rear cover plate	Bolts, nuts and washers M8 (8 pieces)
27	Bolt set for gear	Bolts, nuts and washers M8 (4 pieces)
29	Gearbox	Gearbox for rotary valve RVA-ATEX
30	Bolt set for motor	Bolts, nuts and washers M8 (4 pieces)
33	Motor	B5 motor for rotary valve RVA-ATEX

# NCEB000002 Position detector accessory for ATEX rotary valve type RVA-X

Туре	Housing	Output function	Output	System	Connection	Mounting	Sensing range
M18 Housing detector	M18 x 55	NC (Normally closed)	NAMUR	Proximity Sensor	Cable	Flush	8 mm



# **RVB** Rotary valves



## **RVB** rotary valves

The RVB rotary valves are designed to discharge dust and other materials from filters and cyclones and treat volumes ranging from 60 to 120 m<sup>3</sup>/h. They are equipped with a visual rotation indicator.

These rotary valves are produced according to the following

- harmonized directives/standards :
- 2006/42/EC ; Machine directive
- 2014/35/EC ; Low voltage directive
- 2014/30/EC ; Electromagnetic compatibility directive

## Accessories

- Rotation detectors
- Counter flanges
- Replacement rubber blades
- Transport and discharge pipes



## Material

St 37.2 black steel with primary paint and epoxy powder coating RAL 5010, temperature resistance : +80°C.

8 chamber rotor with rubber blades, temperature range -30°C up to +70°C.

#### Туре

3 mm rolled plates welded together. End plates bolted to the body.

# Options

- Galvanized
- Stainless steel (AISI 304L or 316L)
- Other motor powers
- Other RAL colors
- Other blades







Model	Discharge volume	Rot. speed	Mot. power	Α	В	C modular	D	Weight
	(m³/h) <sup>1)</sup>	(rpm)	(kW)	(mm)	(mm)	(mm)	(mm)	(kg)
RVB1-NX-08	60	21	1.1	500	580	4 x 135	540	140
RVB2-NX-08	90	21	1.1	750	830	5 x 158	790	185
RVB3-NX-08	120	16	1.5	1000	1080	8 x 130	1040	260

<sup>1)</sup> Volume output at 50% degree of filling



# **RVB** Rotary valves



## Components list for rotary valve type RVB

Please only use original components to garantee a worry free functionning of the rotary valves.

#	Part	Description
1	Body	ST37, powder coated RAL 5010
2	Rotor	8 rubber blades rotor supported by metal axle, powder coated, incl. felt rings
3	Cover	ST37, powder coated RAL 5010
4	Motor and gear	1.1 kW or 1.5 kW
5	Bearing housing	Cast iron square- flanges housing
6	Rotation disc	Galvanized steel
7	Detector holder	Galvanized steel
8	Rotation detector	Two options (see below)
9	Rotation disk cover	ST37, powder coated RAL 5010
10	Bolts and Washers M8	Galvanized steel
11	Bolts M5 x 10	Galvanized steel
12	Bolts, nuts and Washers M8	Galvanized steel



## Position detector for rotary valve type RVB

Туре	Housing	Output function	Output	System	Connection	Mounting	Sensing range
Housing Fork Shaped detector	16 x 20 x 1	NO (Normally Open)	DC NPN	Proximity Sensor	Cable	-	-
M18 Housing detector	M18 x 50	NC (Normally closed)	NAMUR	Proximity Sensor	Cable	Flush	From 4 to 6 mm



# **RVC ATEX Rotary valves**



# **RVC ATEX** rotary valves

The RVC ATEX rotary valves are designed to discharge dust and other materials from filters and cyclones and treat volumes ranging from 10 to 83  $\rm m^3/h.$ 

These rotary valves are produced according to the following

- harmonized directives/standards :
- 2006/42/EC ; Machine directive
- 2014/35/EC ; Low voltage directive
- 2014/30/EC ; Electromagnetic compatibility directive
- 2014/34/EC : ATEX directive

The RVC ATEX rotary valves are Eex IID St1 approved.

## **ATEX** information

- ATEX directive : 2014/34/EU
- Certification : FTZU 05 ATEX 0184X
- Pred, max : 75 KPa
- KST<sub>max</sub> : 20 MPa.m.s<sup>-1</sup>

#### Material

St 37.2 black steel with primary paint and epoxy powder coated RAL 5002, temperature resistance : +80°C.

8 chamber rotor with rubber blades, temperature range -20°C up to +60°C.

#### Туре

3 mm rolled plates welded together. End plates bolted to the body.

## Accessories

- Visual rotation indicator
- Rotation detectors
- Counter flanges
- Replacement rubber blades
- Transport and discharge pipes



RVC transport pipe

Model	Discharge volume	Rot. speed	Mot. power	Α	В	C modular	D	E	Weight
	(m³/h) <sup>1)</sup>	(rpm)	(kW)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
RVC1-X3-08	15	38	0.37	220	290	150	260	435	68
RVC2-X3-08	22	18	0.37	670	740	5 x 150	710	603	96
RVC3-X3-08	31	18	0.37	925	995	6 x 150	965	603	110

<sup>1)</sup> Volume output at 50% degree of filling



# **RVC ATEX Rotary valves**



# Components list for rotary valve type RVC

Please only use original components to garantee a worry free functionning of the rotary valves.

#	Part	Description
1	Rubber blades	8 x rubber blades
2	Shaft seal ring	2 x seals
3	Blade supports	8 x ST37, powder coated RAL 5010
4	Shaft with blade supports	1 x ST37, powder coated RAL 5010
5	Dust seal pad	2 x felt pads for sealing
6	Support for dust pad	2 x support 0,63 mm
7	Support for dust support	2 x support 2 mm
8	Flanged bearing	2 x pieces
9	1/2 coupling	Half coupling rotary side
10	Bush coupling	Bush for coupling
11	1/2 coupling	Half coupling motor side
12	Coupling housing	ST37, powder coated RAL 5010
13	Gear	Cast-iron
14	Motor	Electric motor 0,37 or 0,55 kW
15	Rotary valve housing	ST37, powder coated RAL 5010
16	End plate	ST37, powder coated RAL 5010



## **RVD ATEX Rotary valves**





## **RVD ATEX rotary valves**

The RVD rotary valves is developped for applications under a filter. The universal flanges on the top and underside of the valve are drilled according to PN flange standards.

The top opening of the rotary valve is square allowing a good slope so that the product easily slides into the compartiments of the rotor to be eliminated and thus reducing the risk of clogging. It is easily mounted on a round or square filter hopper outlet. On the other hand, the underside outlet of the valve is round to minimize air leakage. The underside flange can easily be fitted on a round or square flange of the connecting pipe.

The standard execution is desiged to handle products with a max. temperature of 70 °C and a maximum pressure difference of 0,5 bar. the rotary valves are resistant to a explosion pressure surge in executions according to ATEX 2014/34/CE norm up to Group II Category 1D/-, or in flameproof execution category St.2.

These rotary valves also follow the following harmonized standards :

- EN 15089:2009
- EN 13463-1:2009
- EN 13463-5:2011

#### Material

GG25 cast-iron body powder coated RAL 3002. St37.2 steel rotor. 90° shore polyurethane blades, temperature resistance : +80°C.

#### Туре

With PN flange connection. 8 chamber rotor with 3 mm blades. With NORD electrical drive (IP 55, class F). Temperature range -30°C up to +70°C. St2 (Kst 300 Bar m/s), MIE <1 mJ, Pred max. 3 Bar.

#### Options

- 6 chamber execution
- Galvanized
- Other motor powers
- Other RAL colors
- Other blades
- ATEX 1D/2GD version
- Rotation detectors

#### Advantages

- Minimal air leakage
- · Choice of blades
- PN flange compatible

Model	capacity <sup>1)</sup>	Discharge volume <sup>2)</sup>	Rotation	Power	Max. pressure	Max temp.	Weight
	(L/rev)	(m³/h)	(rpm)	(kW)	(Bar)	(°C)	(kg)
RVD1-X3-08	6	4.9	27	0.37	0.5	70	65
RVD2-X3-08	8.5	6.9	27	0.37	0.5	70	75
RVD3-X3-08	19	15.4	27	0.55	0.5	70	120

<sup>1)</sup> Volume output at 100% degree of filling

<sup>2)</sup> Volume output at 50% degree of filling

#### **Dimensions :**

Model	ØA	Α	ØB	ØC	С	D	X٥	Е	F	G	RR	SS
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
RVD1-X3-08	200	200	295	340	320	8x Ø23	22.5	14	310	155	465	176
RVD2-X3-08	250	250	350	406	370	12x Ø23	30	15	325	162.5	485	196
RVD3-X3-08	300	300	400	483	445	12x Ø23	30	21	420	210	556	230



# **RVD ATEX Rotary valves**

# Components list for rotary valve type RVD

Please only use original components to garantee a worry free functionning of the rotary valves.



#	Part	Description
1	Body	GG25 cast-iron, powder coated RAL 3002
2	Rotor	St37.2 steel with 3 mm polyurethane blades
3	Cover	GG25 cast-iron, powder coated RAL 3002
4	Cover	GG25 cast-iron, powder coated RAL 3002
5	Bolts	steel
6	Geared motor	4P - 50/60 Hz - IP55
7	Bolts	steel
8	bearing cover and retaining rings	steel bearings and discs
9	Ball bearings	steel
10	Lip seals	steel

Position detector for rotary valve type RVD



Туре	Housing	Output function	Output	System	Connection	Mounting	Sensing range
M18 Housing detector	M18 x 50	NO (Normally Open)	DC NPN	Proximity Sensor	Cable	Flush	From 4 to 6 mm



# SFUV - spark separator





# SFUV - Spark separator

Used as pre-separator before process air filtration that can contain sparks, which may be the case, when there is a relative short distance from the spark source, e.g. grinding, plasma or flame cutting, to the filter unit. In the pre-separator with spark arrest type SFUV possible sparks are extinguished by a labyrinth with water. It is placed on an even surface before the filter unit and connected to piping on inlet and outlet. it is filled with water before commissioning.

The water level can regularly be checked through water level indicator on container front but the SFUV is also available with automatic water filling. Container on wheels suspended in Quicklock system ensures user-friendly operation.

Air volumes : from 7 Max pressure : up to 5

from 750 to 9.900 m<sup>3</sup>/h up to 5.000 Pa

#### Material

St 37.2 - 2 mm black steel plate Surface powder enamelled RAL 5007/7011 structure, temperature resistance : +80°C.

**Type** 2 mm plates welded together.

#### Options

- Other RAL colors
- Automatic water filling



Water bath Water bath is easily removed and subsequently serviced.



**Display** Water level indicator can be read during operation.



Automatic water filling This is an option.



Inlet Placed in the top left side, after which the air is turned down.



# SFUV - spark separator

# Dimensions SFUV unit:

Model	Min. air volume	Max. air volume	Delta P	А	В	С	D	E	F
	(m³/h)	(m³/h)	(Pa)	(mm)	(mm)	(Ømm)	(mm)	(mm)	(mm)
SFUV 160	750	1500	500-1000	506	564	160	1154	994	253
SFUV 200	1150	2300	500-1000	604	700	200	1332	1154	302
SFUV 250	1750	3500	500-1000	700	882	250	1557	1356	315
SFUV 315	2650	5300	500-1000	807	1020	315	1738	1511	403
SFUV 400	4500	9900	500-1000	1100	1260	400	2128	1852	550

# Working principle of flow through SFUV unit:





## **RSEP - Rotating separator**





The rotational separator replaces with success the big volume cyclones, or static separators in the paper and cardboard industry.

The coarse material is extracted to the separator and discharged pressureless to either a baler or a compactor. That results in an improved working environment because the dust is removed.

The design of the separator consists of a large diameter rotary feeder, coupled with a specially perforated plate designed to withstand intensive operation.

The separator comprises of a 6 blades rotor, equipped with wear resistant rubber that rotates slowly. This equipment has been designed to operate in demanding and intensive conditions and should not exceed 70 dB(A) at a distance of 1 meter when correctly installed.

Air volumes :	from 8000 to 60000 m <sup>3</sup> /h
Max pressure :	from 2500 up to 6.000 Pa

These separators are produced according to the following harmonized directives/standards :

- 2006/42/EC ; Machine directive
- 2014/35/EC ; Low voltage directive
- 2014/30/EC ; Electromagnetic compatibility directive



#### Material

St 37.2 - 2 mm black steel plate Surface powder enamelled RAL 5010 structure and rubber blades, temperature resistance : +80°C. Galvanized perforated plate, holes of Ø3.5mm, for a permeability of 42%.

M18 inductive rotation detector included.

#### Туре

2 mm plates welded together.

#### Options

- Stainless steel perforated grill (AISI 304)
- Weatherproof roof for exterior installation

#### Advantages

- High reliability
- Effecient separation
- Low pressure loss and pressureless separation
- Reduced plant operating cost
- Improved working environment
- Compact unit with large separation capacity



**Sturdy construction** Construction is made to last and is weather resistant.



Inner grill Inner grill on all side of the upper part for best airflow.



Easy replacements Rubber blades can easily be replaced on some models.



Inspection door Integrated inspection doors on both side to monitor proper functionning.



# **RSEP - Rotating separator**

Model	Air volume	Capacity <sup>1)</sup>	Power	Motor Rotation	Gear	Rotor rotation	Max. pressure	Max temp.
	(m³/h)	(m³/h)	(kW)	(rpm)	reduction	(rpm)	(Pa)	(°C)
RSEP1-ST	8000	300	0.75	1500	1/64	22.5	3500	70
RSEP2-ST	22000	600	1.5	1500	1/33	14	2500	70
RSEP2-HP	22000	600	1.5	1500	1/33	14	6000	70
RSEP3-ST	35000	1000	2.2	1500	1/33	15	2500	70
RSEP3-HP	35000	1000	2.2	1500	1/33	15	6000	70
RSEP4-ST	50000	1400	3.0	1500	1/160	9.1	2500	70
RSEP4-HP	50000	1400	3.0	1500	1/160	9.1	6000	70
RSEP5-ST	60000	1680	3.0	1500	1/33	15	2500	70
RSEP5-HP	60000	1680	3.0	1500	1/33	15	6000	70

 $^{\rm 1)}$  Volume output at 100% degree of filling

## Dimensions :

Model	Α	В	С	D	E	Air IN	Air OUT	# of	Weight
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	blades	(kg)
RSEP1-ST	1000	985	670	925	385	500 x 250	500 x 500	6	200
RSEP2-ST	1690	925	1190	1450	600	900 x 350	900 x 700	6	480
RSEP2-HP	1690	925	1190	1450	600	900 x 350	900 x 700	6	550
RSEP3-ST	1690	1525	1190	2050	600	900 x 600	900 x 1200	6	700
RSEP3-HP	1690	1525	1190	2050	600	900 x 600	900 x 1200	6	1000
RSEP4-ST	2360	1595	1733	2360	798	1250 x 700	1250 x 1250	6	1500
RSEP4-HP	2360	1595	1733	2360	798	1250 x 700	1250 x 1250	6	1800
RSEP5-ST	2353	1895	1733	2353	798	1250 x 900	1250 x 1550	6	2000
RSEP5-HP	2353	1895	1733	2353	798	1250 x 900	1250 x 1550	6	2400



# Spare parts list for rotating separator type RSEP

Please only use original spare parts to garantee a worry free functionning of the rotating separator.

#	Part	Description
1	Separator housing	Upper part galvanized, lower part powder coated steel
2	Perforated grill	Galvanized sheel metal
3	Bearings	Flanged bearing for axle
4	Worm gear	Worm gear for B5 motor
5	Motor	B5 electric motor, IP 55
6	Rotor	Galvanized sheet metal
7	Rubber blade	Horizontal rubber blade, 1 per vane
8	Rubber blade	Vertical rubber blade, 2 per vane
9	Axle	Steel axle with shaft key
10	Rotation detector	M18 inductive sensor



# XRUV Vacu-valves



# XRUV Vacu-valves

The XRUV Vacu-valves are the most economical and worry-free way to discharge dust from bag filters or cyclones under negative pressure.

The fitted sleeves adjust to the desired vacuum, allowing for the continuous discharge of material while still maintaining an adequate seal.

This unique trickle valve requires no lubrication and no electrical power supply. The valves can be used in high temperature applications and can handle abrasive materials.

## Advantages

- Inexpensive
- No electricity needed



#### Typical industries that use these valves include:

foundry, mining, cement & sand, pharmaceutical, cereal & coffee, plastics, chemical and manufacturing.

#### Key features :

- Open construction models
- Carbon steel construction
- Neoprene duckbill sleeves
- Max. vacuum: 400 mm water gauge negative
- Max. temp 93°C (200 °F).

#### Options :

- Enclosed construction model
- Stainless steel models (AISI)
- Other duckbill sleeves
- (chemical & caustic resistant, high temperature, etc...)





Carter option (closed)

Ød	Code	L1	L2	L3	L4	L5	ØA	ØВ	ØC	D	Weight
		(mm)	(# x Ø mm)	(kg)							
200	XRUV 200	495	365	195	356	508	253	235	253	12 x Ø 9	5.00
250	XRUV 250	560	460	247	356	575	303	285	303	12 x Ø 9	7.00



# **XCUTTER - Turbo-cutter**



## **XCUTTER - Turbo-cutter**

The turbo-cutter removes edges, cut-offs and trimmings with an integrated cutting- and suction technique which cuts the down to small pieces which can then be conveyed to the refuse container, compactor, combustion or to further preparation.

The turbo-cutter is developed especially for industries, which require a quick, effective and economic shredding of trimmings from one or more sources and works under vacuum, which means that dust and other contaminated particles are extracted together with the rest of the material.

The size of the cut off material depends on the amount of knives, the knife rotation speed and the speed of the airflow within the ducting.

#### Applications :

- Paper: Paper- and computer industry
- Cardboard: Packing industry
- Plastic foil: Plastic industry
- Packing: Packing industry
- Label, laminate: Printing works
- Fibers: Synthetic industry
- Textile: Textile industry

## Material

Die-cast steel powder coated. Hardened steel cutting knives. Temperature resistance : +80°C.

#### Туре

2 mm inlet cones bolted to housing.

#### Options

- Different sizes in- and outlets (Ø100 to Ø200)
- Set of knives

## Other information

- 0,55 to 1,1 kW B5 flanged motor
- Speed : on request
- Elec. Supply: 3x380v, 50 Hz
- Starter : Manual/direct
- Current : 1,75 A
- Fuse rating : 10 amp
- Transmission : Direct through overload coupling
- Pressure loss : about 80mm wg at 1500 m<sup>3</sup> air/h

#### Dimensions :

Model	# of	Motor Power	Α	В	С	ØD <sup>1)</sup>	E	Weight
	Knives	(kW)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
XCUTTER055-6P	3	0.55	483	200	450	100 to 200	350	32
XCUTTER075-4P	3	0.75	483	200	450	100 to 200	350	32
XCUTTER110-2P	3	1.1	483	200	450	100 to 200	350	32

1) Specify when ordering



**Sturdy construction** Construction is made to last and is weather resistant.



**Gearing** High grade metal gear and NSK bearings.



Easy adjustments Fine tuning of cutting is easily done by exterior adjustment.



High grade steel knives insure long lasting working.