

About Vacuum Producers

The heart of the system

The vacuum producer is the heart of the system. Here the negative pressure is created that drives the system. In Dustcontrol extraction systems, the vacuum level is generally from 6 – 40 kPa.

Our normal source extraction and vacuum cleaning systems use turbopumps. This device has an ideally suited characteristic capacity for this type of system. Vacuum level increases as more resistance is presented, an important quality in minimizing the possibility of blockages in the tubing system. For applications involving fume and light dust, such as paper, radial blowers are used. These have larger air-flows and operate at a lower, relatively constant, vacuum level. Our turbopumps and radial blowers have very high quality silencing, see technical specifications.

Turbopumps

Dustcontrol's turbopumps are regenerative blowers, both the direct and belt driven models. As the impeller rotates, centrifugal force moves the air from the root of the blade to the tip. Leaving the tip, air flows around the contour of the housing and is picked up at the root of the succeeding blade. The "closed" area of the housing between the outlet and inlet, forces the air to atmosphere. The many blades on the impeller create increasing stages of pressure generation and result in

a very stable pressure differential capability. This pressure generation causes heat to be generated naturally which dissipates in the air flow and through the blower housing. Silencing, particularly on the larger units is very effective. When two or more units are installed in parallel, they can be operated on demand for maximum efficiency and minimum energy consumption.

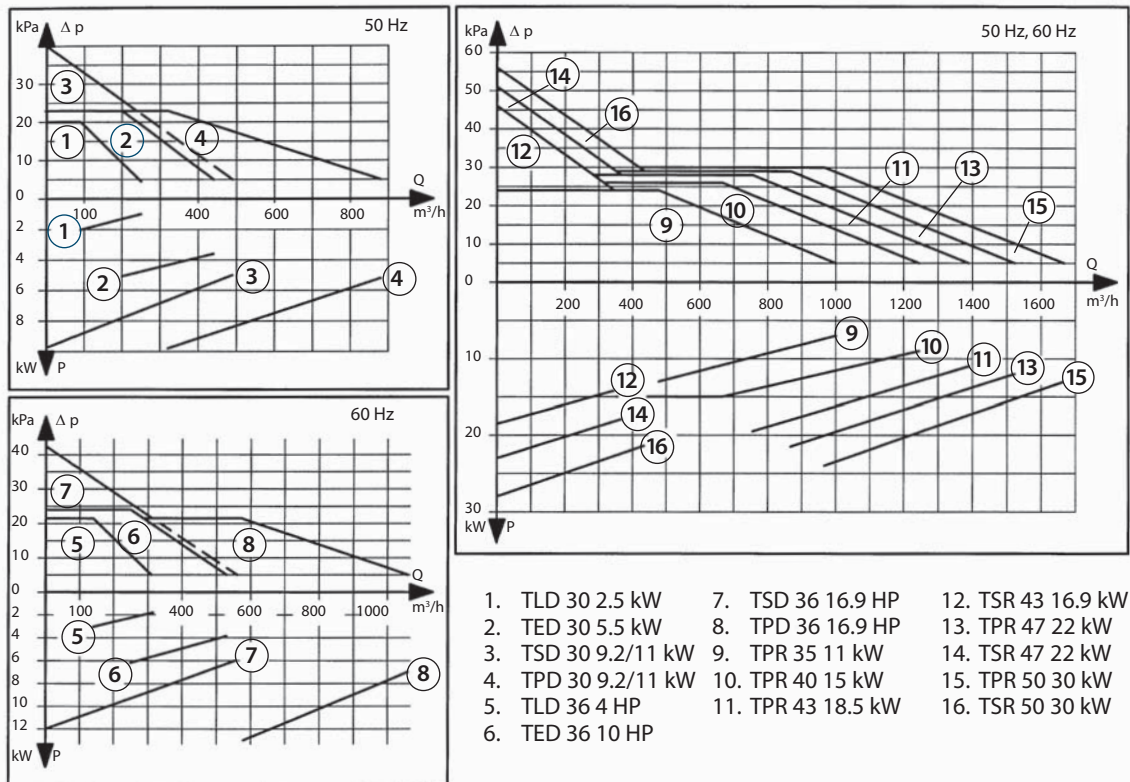
Radial Blowers

Dustcontrol fans are radial blowers, air is introduced at the center of the fan wheel and forced outward with centrifugal force toward the fan housing. These fans can be operated fully restricted in a "free-wheeling" condition without adverse effect and can therefore be operated without vacuum relief valves. The fans are designed for pressure and are overloading type units. They cannot be operated without being connected to the restriction of a tubing system. Operation above their maximum rated flow will result in overloading and the motor protection will trip out. To limit the power surge at start-up, install a shutter valve on the inlet which should be closed when the fan starts.



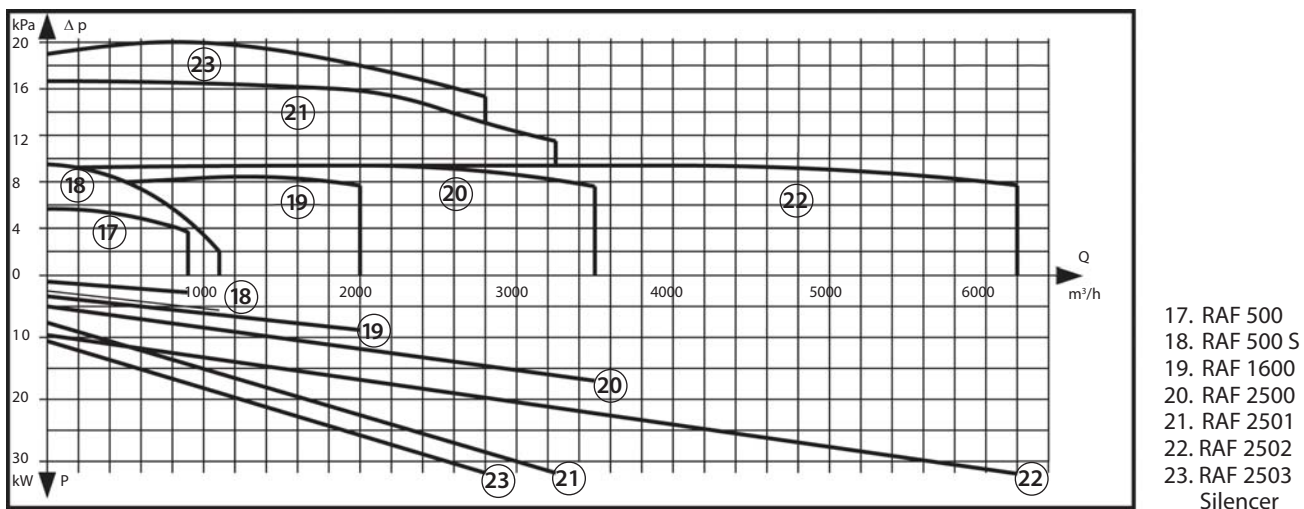
Turbopumps

Source Extraction, Cleaning, Pneumatic Transportation.



Radial Blowers

Fume extraction of fine dust from light material, ie: wood and paper.



The capacity curves for Dustcontrol vacuum producers have been measured and are stated empirically. Outlet pressure losses from a normal outlet (silencer, back-flow valve/bend) have been accounted for in the curve. Additional equipment such as a diffuser can result in increased pressure loss and must be taken into consideration.

Stated air-flows are for standard air (101.3 kPa@ 20° C).

The stated curves are for negative application, all pressures stated are assumed to be below relative atmospheric pressure at sea level. These devices can also be used for positive pressure application and will generate a greater pressure differential.

TLD/TED 30/36

Turbopump TLD 30/36 and TED 30/36 are direct driven single stage units. To ensure constant pressure and that cooling air is available to the pump when all outlets are closed, the tubing system should be equipped with a vacuum relief valve.

TPD 30/36

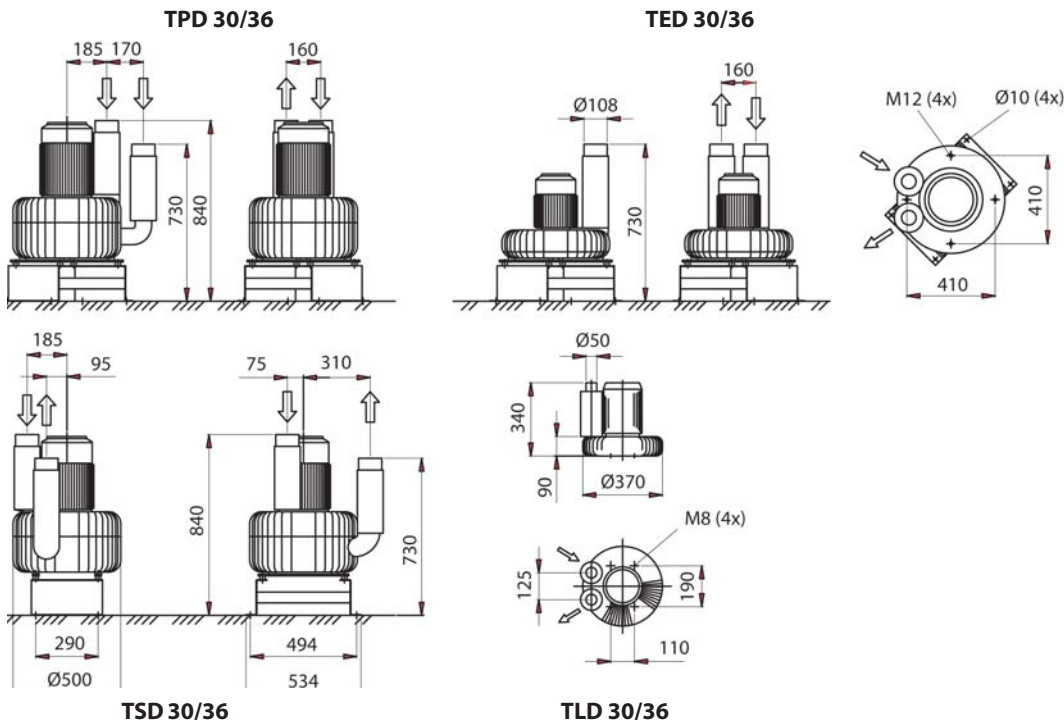
Turbopump TPD 30/36 is a direct driven twin impeller parallel connected unit. To ensure constant pressure and that cooling air is avail-

able to the pump when all outlets are closed, the tubing system should be equipped with a vacuum relief valve.

TSD 30/36

Turbopumps TSD 30/36 are direct driven twin impeller series connected units. This is used in demanding applications where high vacuum levels are required. To ensure that cooling air is available to the pump when all outlets are closed, the turbo-pump can be equipped with a cooling air inlet.

Part No	Hz	TLD 30 2.5 kW	TLD 36 4 HP	TED 30 5.5 kW	TED 36 10 HP	TPD 30 9.2 kW	TSD 30 9.2 kW	TSD 36 16.9 HP S	TPD 36 16.9 HP P
230/400 V	50	4322							
230 V	50			4326		4910	4907		
400 V	50			4126		4911	4908		
230/460 V	60		419006						
460 V US/CAN	60				419306			479700	4881000
575 V CAN	60		419004		419101			4615	



LUBRICATION INTERVAL	TLD 30 2.5 kW	TLD 36 4 HP	TED 30 5.5 kW	TED 36 10 HP	TPD 30 9.2/11 kW	TSD 30 9.2/11 kW	TSD 36 16.9 HP	TPD 36 16.9 HP
	10000 h	10000 h	10000 h	10000 h	1500 h	1500 h	1500 h	1500 h

400 g Grease Cartridge for Dustcontrol Turbopumps, Part No 9928

These direct driven units are extremely reliable and have low service requirements. Always change the O Ring when repacking the outboard bearing in the TSD and TPD pump.

TECHNICAL DATA, description TLD 30 TLD 36 TED 30 TED 36 TPD 30 TSD 30 TSD 36 TPD 36

Power Supply	Hz	50	60	50	60	50	50	60	60
Pump	RPM	3000	3600	3000	3600	3000	3000	3600	3600
Weight	kg	30	30	65	65	90	90	110	110
Max dP	kPa	20	22*	23*	24*	21*	40	43	20
Nominal Pressure	kPa	18	20	18	20	18	30	32	17
Max Q	m ³ /h	260	300	450	600	900	450	560	1050
Sound Level of									
Unit 1m	dB(A)	75	75	75	75	75	75	75	75
Inlet/Outlet	Ø mm	50/50	50/50	108/108	108/108	108/108	108/108	108/108	108/108

*Standard DC Green System Max 22 kPa

Accessories

Part No 3037 Console 500 mm (2 req'd)
For wall installation of TLD 30/36.

Part No 4477 Pump Chassis
For separate mounting of TED 30/36, TPD 30/36 and TSD 30/36.

Part No 4942 Silencer 100 300/200
Used for silencing of 76 mm vacuum valve and also exhaust silencing on 2.5–11 kW/4–16.9 HP turbopump. For accompanying tubing details, see installation example.

Part No 3195 Silencer 80300/180
Used for silencing of 50 mm vacuum valve.

Part No 8253 Vacuum Relief Valve 50 mm
Used with TLD 30/36. The vacuum relief valve is installed on the tubing system (inlet side) on a branch tube. This delivers cooling air to the turbopump and can be adjusted for the desired vacuum level in the system.

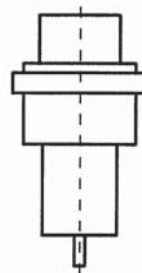
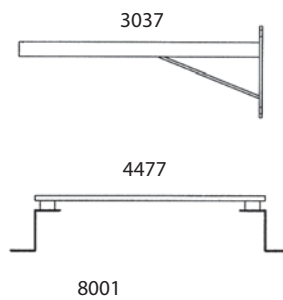
Part No 8001 Vacuum Relief Valve 76 mm
Used with TED 30/36 and TPD 30/36. The vacuum relief valve is installed on the tubing system (inlet side) on a branch tube. This delivers cooling air to the turbopump and can be adjusted for the desired vacuum level in the system.

Part No 40595 Cooling air inlet with silencer for TSD 30/36
Cooling air is introduced to the turbopump between stages so the unit can be driven with all outlets closed without the risk of overheating.

Part No 42297 Back Flow Valve Ø108
Installed on the inlet side of the turbopump when two or more units are parallel installed.

Silencing Covers. The silencing covers will reduce the sound level by 4 dB.

- Part No 40261 Silencing Cover for TLD 30
- Part No 40697 Silencing Cover for TED 30 5.5 kW
- Part No 40698 Silencing Cover for TED 30 9.2 kW
- Part No 4659 Intermediate piece Ø108



Capacity and Power Consumption

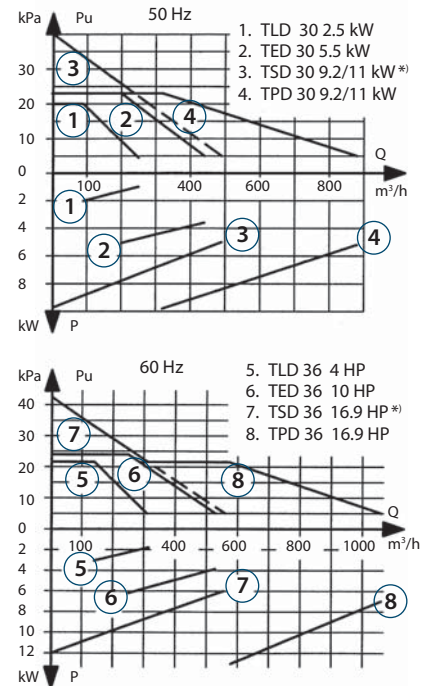
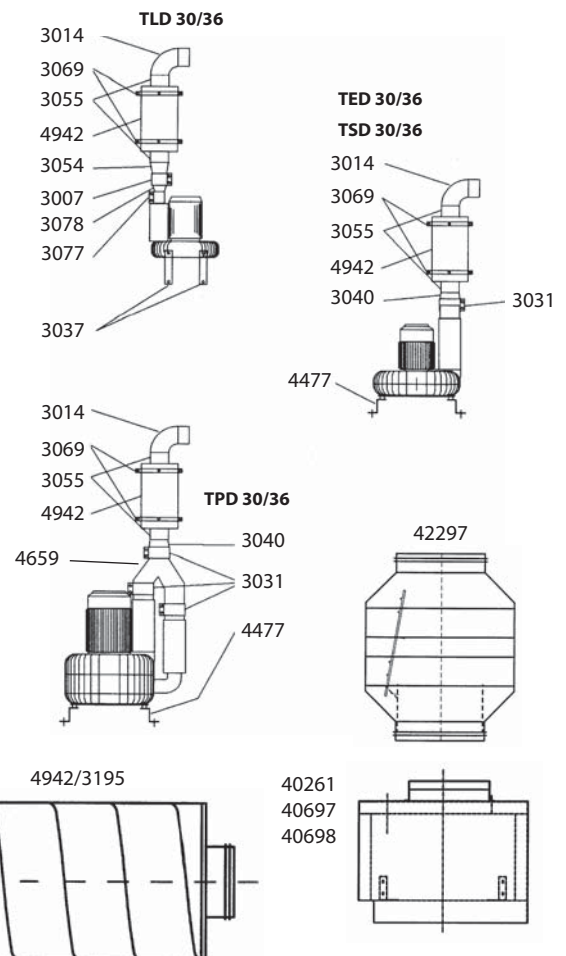


Figure shows available capacity in an extraction system.
*) Turbopump with cooling air inlet.

Installation Example, Silencers



TPR

Turbopumps with TPR designation are parallel connected twin impeller belt driven units. Cooling air is introduced into the unit through an adjustable vacuum relief valve. The vacuum pressure in the system can be held constant when different outlets are opened. The turbopumps are equipped with thermal overload protection on the outboard bearing which will trip out when bearing temperature becomes excessive. A back flow valve is built into the unit on the inlet side.

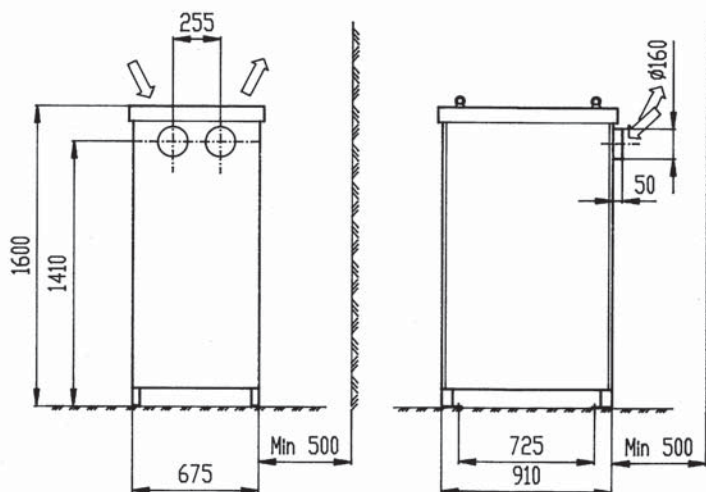


TSR

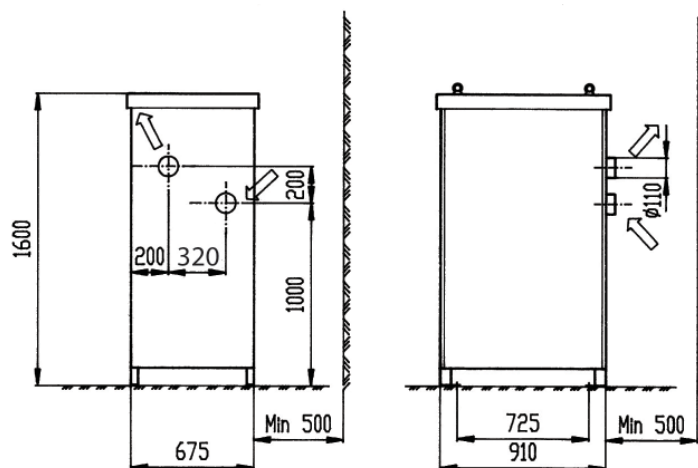
Turbopumps with TSR designation are series connected two stage belt driven units. Cooling air is introduced into the pump through a slot between the two stages. In this way the second stage cools the first stage indirectly, allowing the pump to run at extremely high vacuum and low airflow without overheating. The turbopumps are equipped with thermal overload protection on the outboard bearing which will trip out when bearing temperature becomes excessive. A back flow valve must be optionally installed on the inlet side of the unit when several units are to be installed in parallel.

Dimensions, Installation Example

TPR



TSR



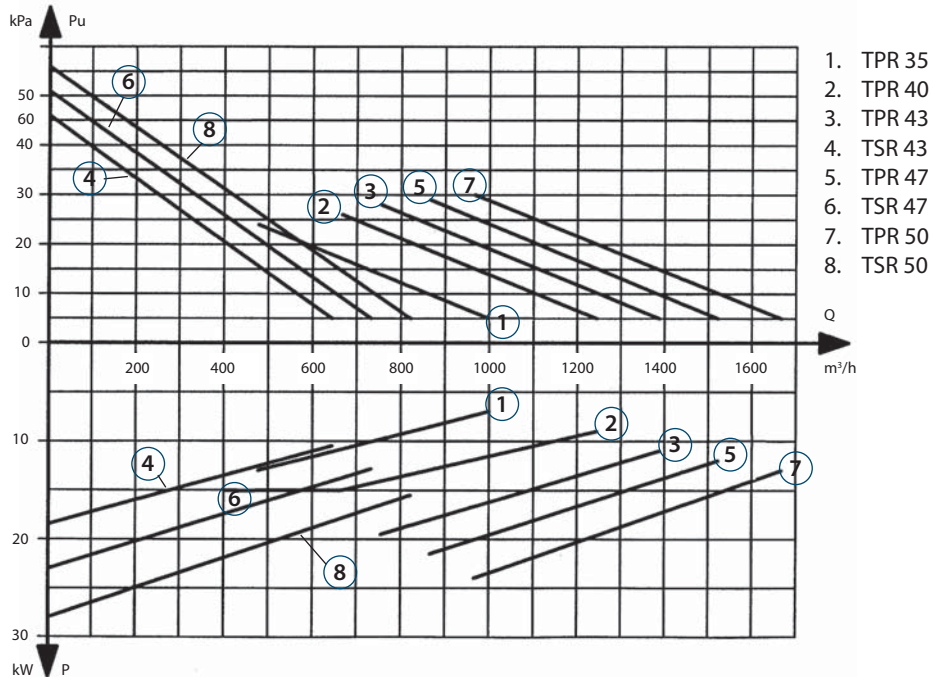
PART NO/MOTOR	Hz	TPR 35	TPR 40	TPR 43	TSR 43	TPR 47	TSR47	TPR 50	TSR 50
230 V	50		106802/15 kW	107202/18.5 kW	107252/18.5 kW	107702/22 kW	107752/22 kW	109202/30 kW	109252/30 kW
400 V	50	106600/11 kW	106800/15 kW	107200/18.5 kW	107250/18.5 kW	107700/22 kW	107750/22 kW	109200/30 kW	109250/30 kW
460 V USA/CAN	60		106805/20 HP	107207/25 HP	107257/25 HP	107707/30 HP	107757/30 HP	109207/40 HP	109257/40 HP
575 V CAN	60		106806/20 HP	107206/25 HP	107256/25 HP	107706/30 HP	107756/30 HP	109206/40 HP	109256/40 HP

TECHNICAL DATA, description		TPR 35	TPR 40	TPR 43	TSR 43	TPR 47	TSR 47	TPR 50	TSR 50
Pump RPM	rpm	3500	4000	4300	4300	4700	4700	5000	5000
Weight	kg	400	400	430	430	450	450	530	530
Max dP	kPa	22	26*	28*	46	29*	50	30*	54
Nominal Pressure	kPa	20	20	20	35	21	37	23	40
Max Q	m ³ /h	1000	1200	1400	650	1500	700	1600	800
Sound Level of Unit 1 m	dB(A)	66	66	66	66	66	66	66	66
Inlet/Outlet	Ømm	160/160	160/160	160/160	108/108	160/160	108/108	160/160	108/108

**Standard DC Green System Max 22 kPa

Capacity and Power Consumption

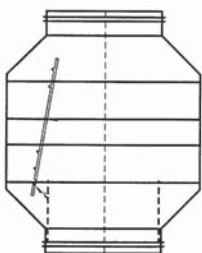
The diagram shows available capacity for an extraction system.



Lubrication Interval

Δ p	TPR 35	TPR 40	TPR 43	TSR 43	TPR 47	TSR 47	TPR 50	TSR 50
22 kPa	1500 h	1500 h	1500 h	-	1500 h	-	1500 h	-
25 kPa	750 h	750 h	1500 h	-	1500 h	-	1500 h	-
28 kPa	-	-	1000 h	-	1000 h	-	1000 h	-
30 kPa	-	-	-	1500 h	-	1500 h	750 h	1500 h
40 kPa	-	-	-	1000 h	-	1000 h	-	1000 h

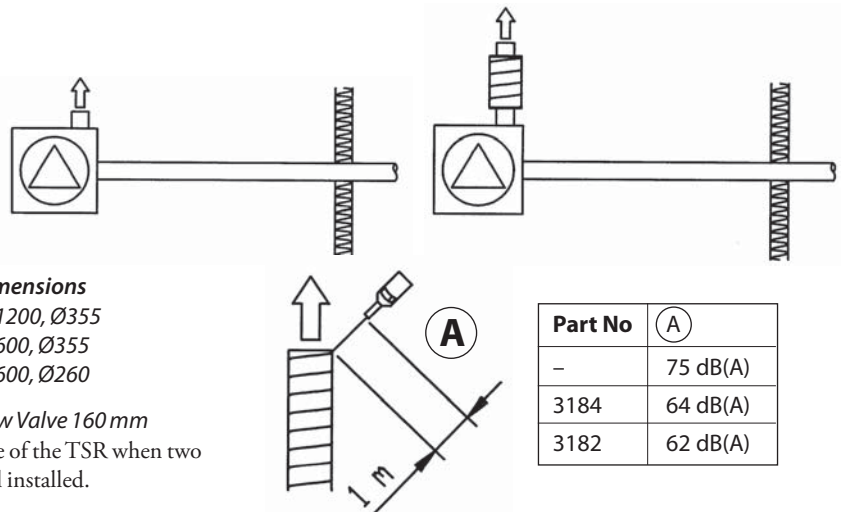
Grease for Dustcontrol Turbopumps, Part No. 9928



Accessories

Part No	Conn.	Dimensions
3182	Ø160	L=1200, Ø355
3183	Ø160	L=600, Ø355
3184	Ø160	L=600, Ø260

Part No. 8051 Back Flow Valve 160 mm
Installed on the inlet side of the TSR when two or more units are parallel installed.



Part No	A
-	75 dB(A)
3184	64 dB(A)
3182	62 dB(A)

RAF 500

2.5 kW 220–240/380–420V, 50 Hz Part No

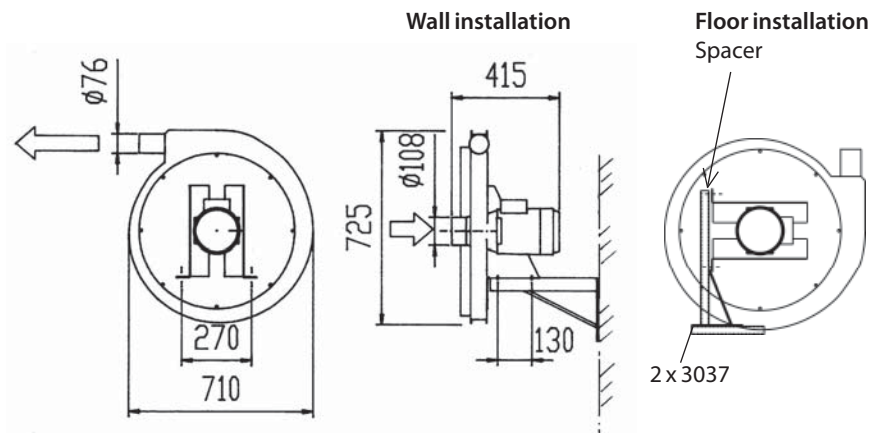
Without Silencing Enclosure	111900
With Silencing Enclosure	111910

4 HP 460V, 60 Hz Can/US Part No

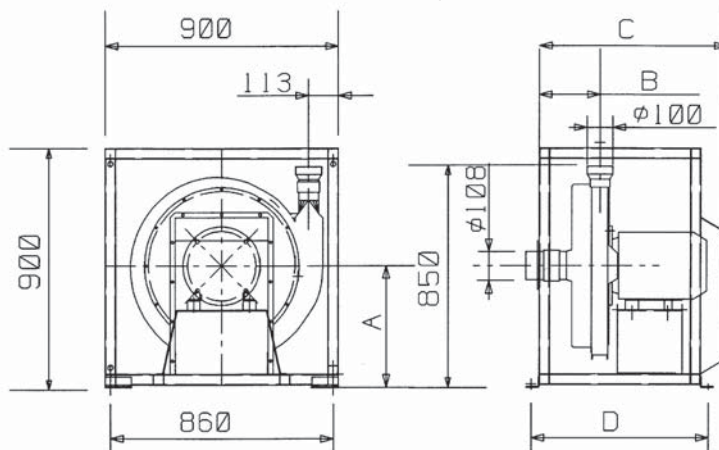
Without Silencing Enclosure	111904
With Silencing Enclosure	111916

The RAF 500 is ideal for small fume extraction systems, for example with Flexpipes. Spiral tubing is generally used. The blower is a direct driven unit with minimal service requirements. (Lubrication interval 10000 hours.)

Dimensions RAF 500 without Silencing Enclosure



Dimensions RAF 500 with Silencing Enclosure and RAF 500 S



RAF 500S

5.5 kW 220–240/380–420V, 50 Hz Part No

Without Silencing Enclosure	111800
With Silencing Enclosure	111810

10 HP 460V, 60 Hz Can/USA Part No

Without Silencing Enclosure	111804
With Silencing Enclosure	111816

The RAF 500S is for application in extraction systems for lighter dust, ie: wood dust. It is a twin wheel, series connected unit. The unit is direct drive and has minimal service requirements. (Lubrication interval 10000 hours.)

Accessories RAF 500 and RAF 500S

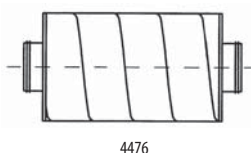
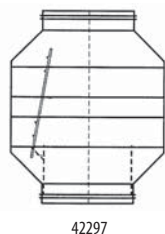
Part No 4476 Silencer 100, 600/200 mm
Used for silencing exhaust and inlet.

Part No 42297 Back Flow Valve 108 mm
Installed on the inlet side of the fan when two or more units are parallel installed.

Part No 808404 Shutter valve auto 108 mm

Part No 8088 Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.



	A	B	C	D
RAF 500	450	157	550	510
RAF 500S	460	325	725	685

Capacity and Power Consumption

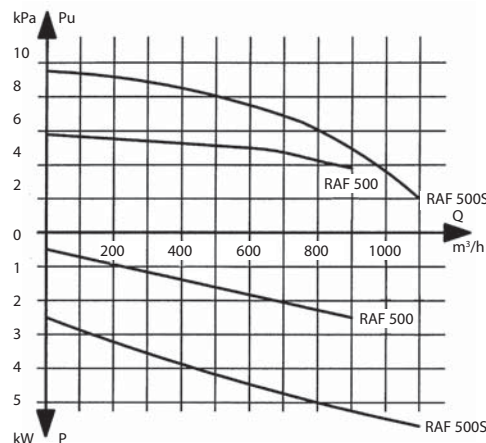


Figure shows available capacity in an extraction system.

TECHNICAL DATA		RAF 500	RAF 500S
Motor	kW	2.5 kW/4 HP	5.5 kW/10 HP
Pump RPM	rpm	3000	3000
Weight	kg	39	150
Max dp	kPa	5.6	9.5
Max Q	m ³ /h	900	1100
Sound Level ^{*)}	dB(A)		
without silencing enclosure		79	79
with silencing enclosure		66	66
Inlet/Outlet	mm	108/76	108/100

^{*)} with exhaust silencer, 1 m

RAF 1600/2500

PART NO.	Hz	RAF 1600		RAF 2500	
400 V	50	112000	7,5 kW	112100	15 kW
230 V	50	112002	7,5 kW	112102	15 kW
460 V UUS/CAN	60	112007	10 HP	112107	20 HP

RAF 1600/2500 are single stage direct driven radial blowers for less demanding pressure applications such as fume extraction. The blowers are equipped with vibration isolators and silenced enclosure. They should always be equipped with an exhaust silencer (inlet also if required). These units have minimal service requirements (lubrication interval 10000 hours).

Accessories

Part No 8051 Back Flow Valve 160 mm

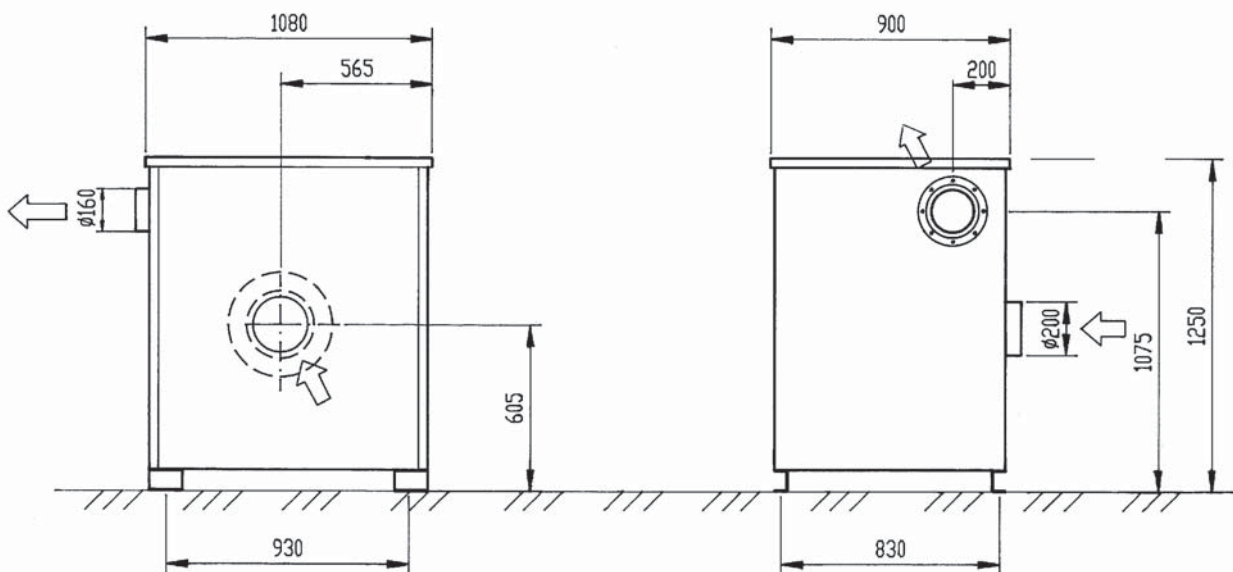
Installed on the inlet side of the fan when two or more units are parallel installed.

Part No 807500 Shutter valve auto 200 mm

Part No 8088 Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.

Dimensions, Installation Example



TECHNICAL DATA		RAF 1600		RAF 2500	
		50Hz	60Hz	50Hz	60Hz
Pump RPM	rpm	3000	3600	3000	3600
Weight ca	kg	290		330	
Max dp	kPa	7.7		9.3	
Max Q	m ³ /h	2000		3500	
Sound Level*	dB(A)	68		70	
Inlet/Outlet	mm	200/160		200/160	

*with exhaust silencer, 1 m.



Capacity and Power Consumption

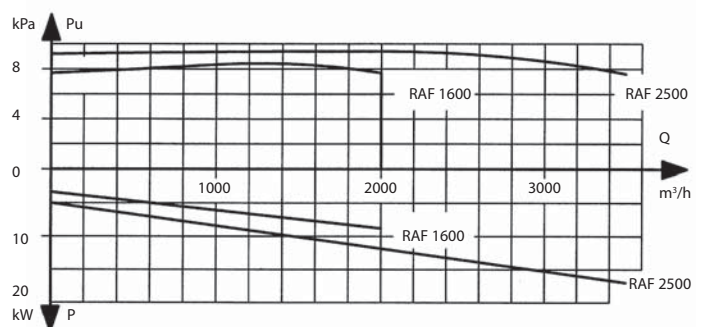


Figure shows available capacity in an extraction system.

RAF 2501

V	Hz	Motor	Part No
400	50	30 kW	112200
230	50	30 kW	112202
460 USA/CAN	60	40 HP	112204
600	60	40 HP	112206

The RAF 2501 is applied in extraction systems requiring large air-flows for lighter types of dust and cleaning. Pressure generation is achieved through two series connected stages. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required). The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

Accessories

Part No 8051 Back Flow Valve 160 mm

Installed on the inlet side of the fan when two or more units are parallel installed.

Part No 807500 Shutter valve auto 200 mm

Part No 8088 Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.

RAF 2502

V	Hz	Motor	Part No
400	50	30 kW	112300
230	50	30 kW	112302
460 USA/CAN	60	40 HP	112304
600	60	40 HP	112306

The RAF 2502 is applied in extraction systems requiring large air-flows such as systems for fume extraction. RAF 2502 work with two parallel impellers. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required).

The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

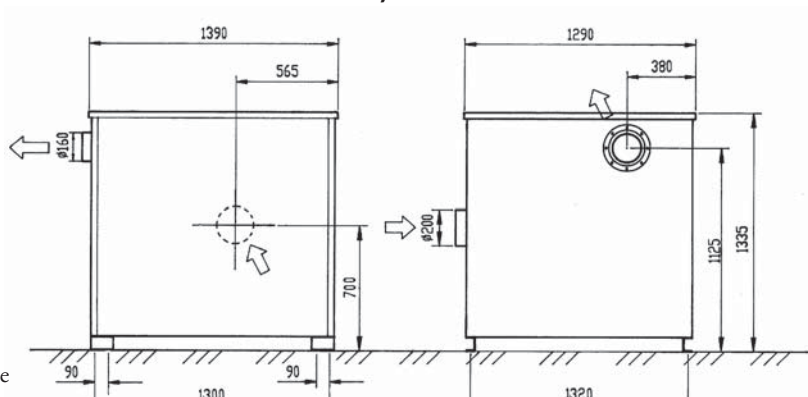
RAF 2503

V	Hz	kW	Part No
400	50	30	112400

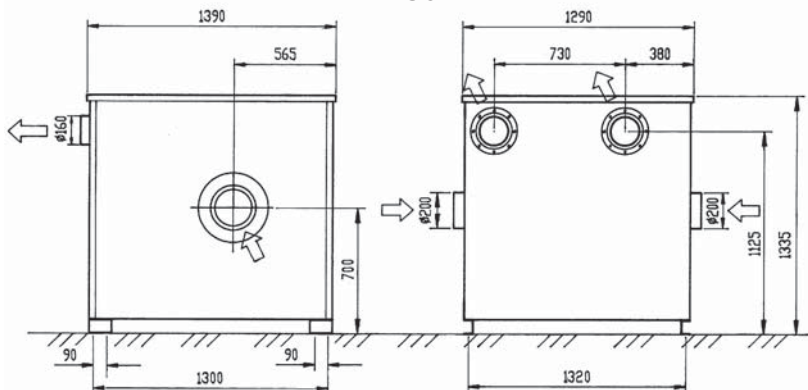
Pressure generation is achieved through two series connected stages. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required). The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

RAF 2503 develops a maximum negative pressure of 20 kPa. Note though that the maximum airflow is 2800 m³/h. Above this, the power consumption would be too large for the 30 kW motor, so the design of the system must throttle to this level for all cases.

RAF 2501, RAF 2503



RAF 2502



Accessories – Please see RAF 2501.

TECHNICAL DATA		RAF 2501		RAF 2502		RAF 2503
		50Hz	60Hz	50Hz	60Hz	50 Hz
Pump RPM	rpm	3000	3600	3000	3600	3000
Weight ca	kg	440		430		450
Max dp	kPa	17		9.4		20
Max Q	m ³ /h	3300		6200		2800
Sound Level*	dB(A)	74		74		74
Inlet/Outlet	mm	200/160		2x200/2x160		200/160

* with exhaust silencer, 1 m.



Capacity and Power Consumption

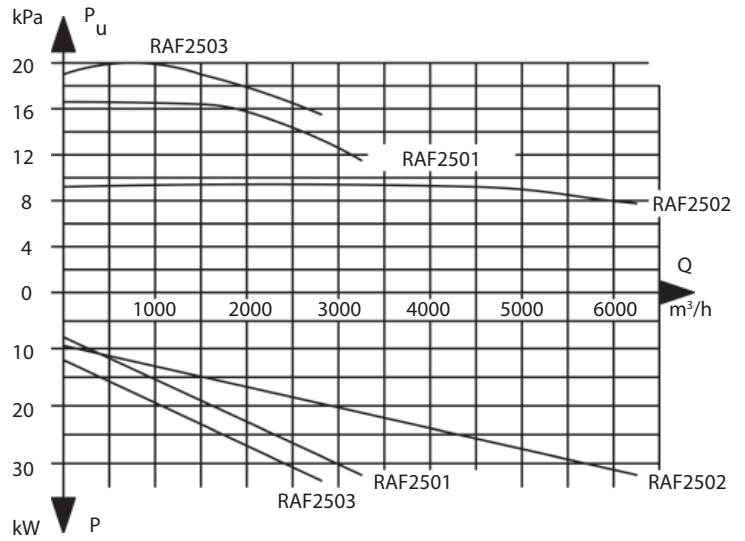
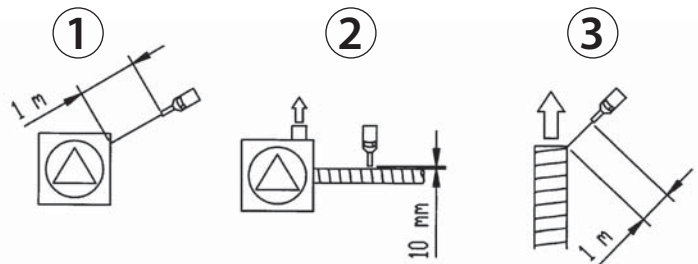


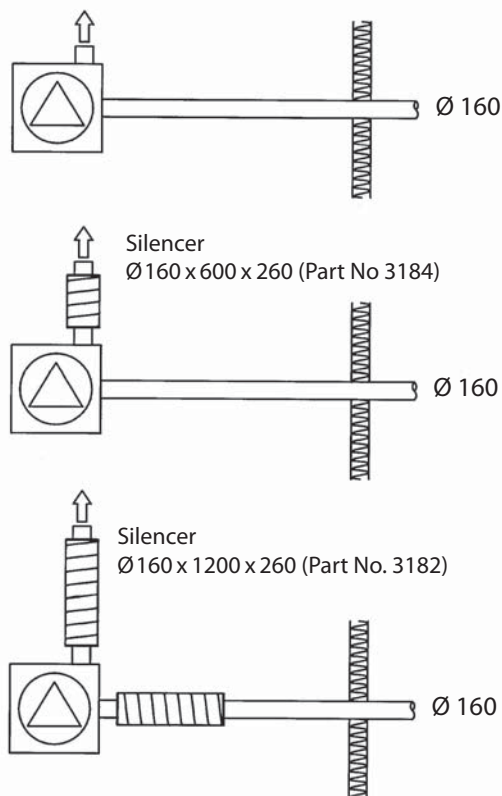
Figure shows available capacity in an extraction system.



Fan Silencers

In order to decrease the noise level of our fans, RAF 1600 – 2503, an in-line silencer must be installed on the exhaust duct. Several examples are illustrated of how noise level measurements can be affected. It is not unusual to obtain measurements of up to 110–120 dB(A) in completely non-silenced installations.

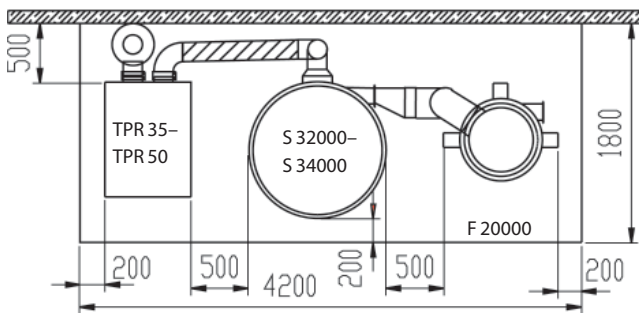
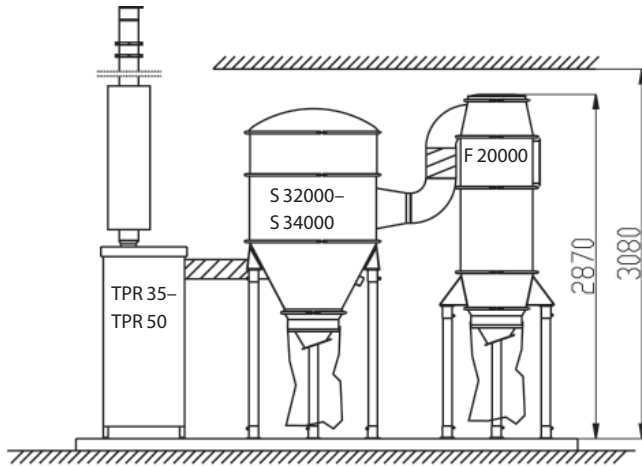
Part No	Conn.	Dimensions
3182	Ø160	L=1200, Ø355 mm
3183	Ø160	L=600, Ø355 mm
3184	Ø160	L=600, Ø260 mm



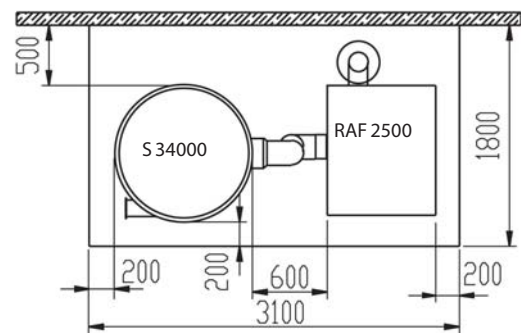
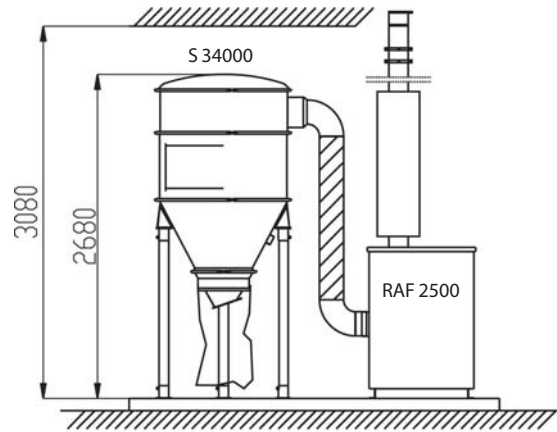
	1	2	3
Ø160	96	100	102
Ø160	75	78	81
Ø160	68	72	71

Installation Examples

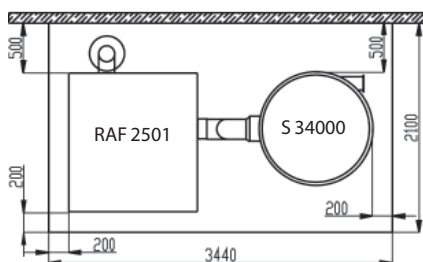
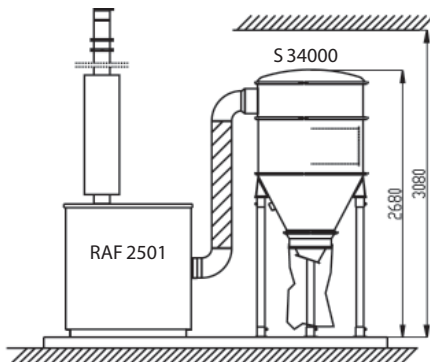
TPR 35-TPR 50, S 32000-S 34000, F 20000



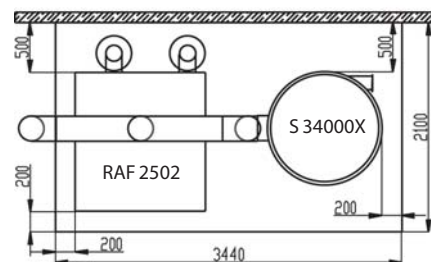
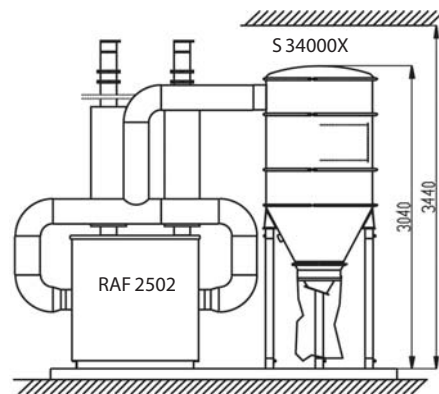
S 34000, RAF 2500



RAF 2501, S 34000



RAF 2502, S 34000X



About Dustcontrol Filter Units

An extraction system should always be equipped with a filter unit. The filter unit separates coarse material in the cyclone body of the unit and fine dust in an internal arrangement of conical pleated cartridge filters. Pleated filters have very high filter areas in relation to their physical size. The filter units therefore have high capacity while maintaining compact overall dimensions.

Filters are cleaned with reverse pulse which results in very effective cleaning, long filter life and low maintenance.

Normally the filter units are equipped with a plastic sack for collection of the extracted material but other types of discharge arrangements can also be installed.

General

In the filter unit, dust is separated from the air in several steps.

- the cyclone will separate particles down to a size of 1/100 mm.
 - the filter will separate particles which go through the cyclone.
- The dust laden air is introduced into the cyclone at a high velocity. Through centrifugal force the dust particles, with higher relative mass than the air molecules, are forced outward toward the wall of the cyclone and fall toward the bottom. The air flows toward the centre of the cyclone and through the filter.

Filter Loading

Permissible air-flow determines the air velocity through the filter material, known as filter loading. Consider also inlet/outlet velocities. Permissible filter loading varies with dust type.

Dust Type

Dust Type	Permissible filter loading (m ³ /h)m ²
Stone	120
Concrete	120
Wood	160
Cement	120
Plastic	120
Graphite	60
Carbon black	60
Welding fume	60
Fibreglass	60

Example:

For the extraction of welding fume, the maximum permissible flow in the S 34000 will be:

$$60(\text{m}^3/\text{h})/\text{m}^2 \times 34 \text{ m}^2 \text{ filterarea} = 2040 \text{ m}^3/\text{h}$$

The velocity of the air through the inlet and outlet should not exceed 30 m/s. When one filter unit does not have sufficient capacity, several units can be connected in parallel.



Choose the Right Filter Unit

Dust Type	Air Flow	Select Filter Unit
Stone, concrete, cement, wood, plastic, metal	$\leq 1000 \text{ m}^3/\text{h}^{*)}$	S 11000
	1000–1500 m^3/h	S 21000
	1000–2000 $\text{m}^3/\text{h}^{*)}$	S 32000/2 x S 11000
	2000–4000 $\text{m}^3/\text{h}^{*)}$	S 34000
	4000–5000 $\text{m}^3/\text{h}^{*)}$	S 34000X
Graphite, carbon black, welding fume, fiberglass	$\leq 700 \text{ m}^3/\text{h}$	S 11000X
	700–1400 m^3/h	2 x S 11000X
	700–2000 m^3/h	S 34000
	2000–2900 m^3/h	S 34000X

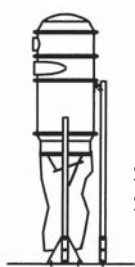
*) In applications with a large percentage of finer particulate, the above values should be reduced 20 %.

Central Units

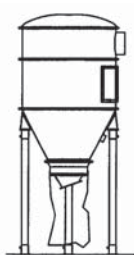
For smaller systems, the filter unit and vacuum producer can be delivered unitized on a common chassis.

Air Flow ^{*)}	Vacuum Level Required	Select Unit
$\leq 200 \text{ m}^3/\text{h}$	normal	DC 3800 Stationary
200–400 m^3/h	normal	DC 11000 5.5/7.5 kW
200–400 m^3/h	large	DC 11000 9.2/11 kW S
400–800 m^3/h	normal	DC 11000 9.2/11 kW P
400–800 m^3/h	large	DC 11000 2x5.5/2x7.5 kW DC 11000 2x9.2 kW S

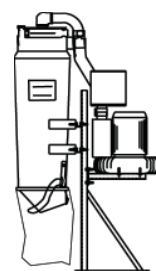
*) always consider dust type and filter loading as above



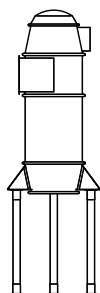
S 11000
S 11000X S
11000E



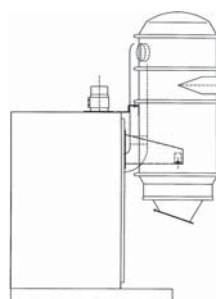
S 32000
S 34000
S 34000X



DC 3800
Stationary



S 21000



11Module



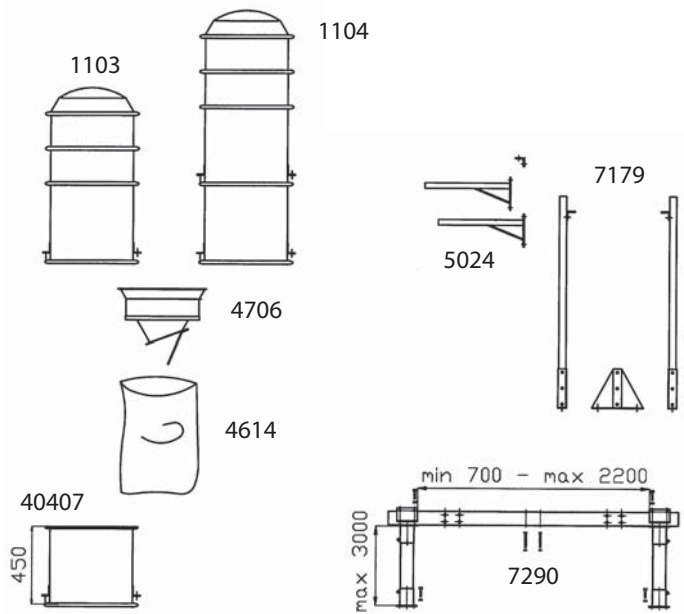
S 11000

Part No Description

- 1103** S 11000
- 1104** S 11000X
- 5024** Wall bracket compl.
- 7179** Stand compl.
- 4706** Discharge Cone
- 4614** Collection sack 50 pack
- 42429** Collection sack 25 pack, antistatic

The S 11000 filter unit is of modular construction and is therefore flexible in application. The inlet module can for example be both rotated and reversed. Additional module rings can be installed to increase the storage capacity of the cyclone. The S 11000 is either floor or wall mounted. The S 11000 and S 11000X must always be equipped with a discharge cone or other discharge arrangement.

The X model is equipped with larger filter area and an extra module ring. The E model is equipped for use with wood dust and has an explosion relief port as well as material collection in a steel container.



Dimensions, Arrangements

Accessories

Part No 8188 Timer

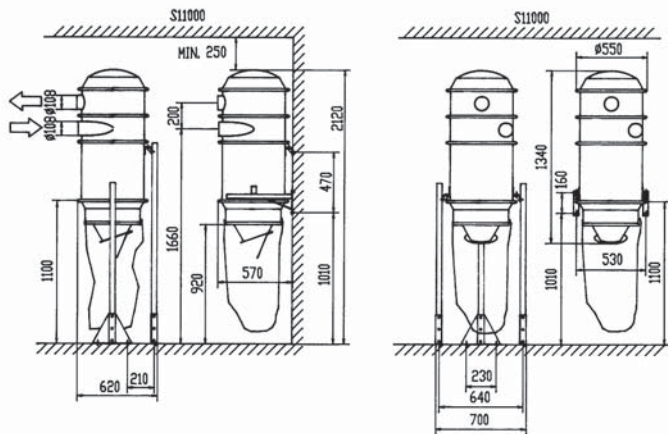
Can be used to activate filter cleaning.

Part No 40407 Module Ring, complete

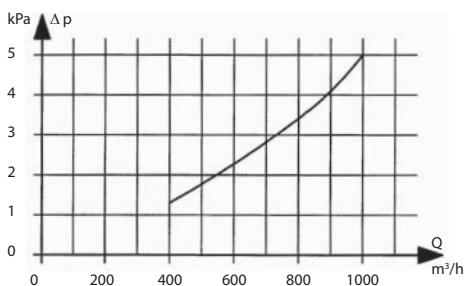
Increases the height of the cyclone and volume.

Part No 7290 Widening Chassis

Used in applications where the separator is to discharge into a larger container such as a tipping container.



Pressure Loss



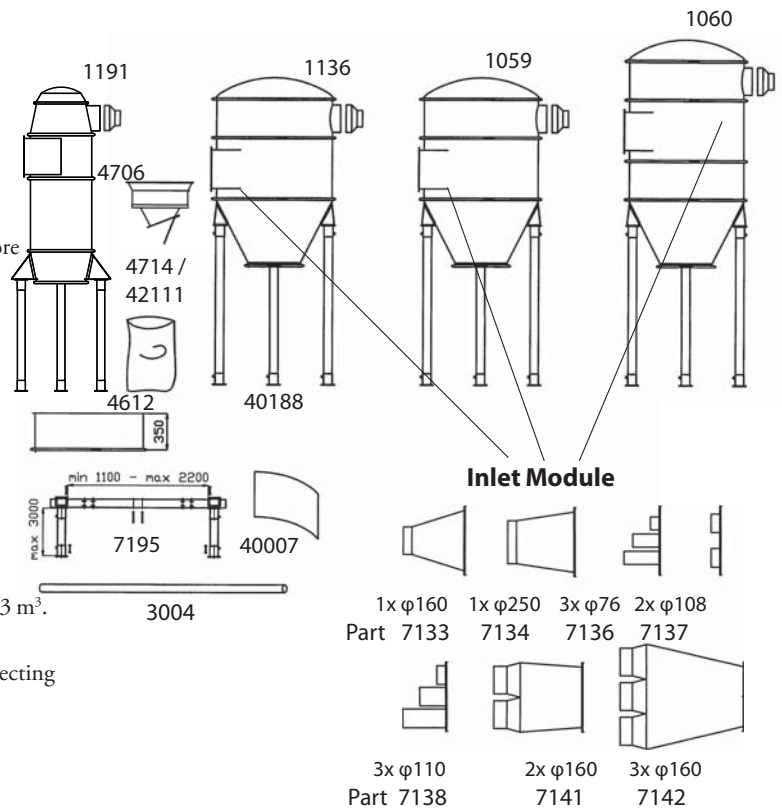
S 21000, S 32000, S 34000, S 34000X

Part No Description

1191	S 21000
1136	S 32000
1059	S 34000
1060	S 34000X
4706	Discharge Cone
4714	Collection Sack, 50 pack
42429	Collection Sack, 25 pack Antistatic

The S 21000 and S 34000 are constructed of modules and is therefore very flexible. The inlet modules can for example be both rotated and reversed. Additional module rings can be installed to give increased storage capacity of collected material. The X model is equipped with larger filter area and an extra module ring.

S 21000, S 32000, S 34000 and S 34000X are installed on legs. As standard, extracted material is collected in a plastic bag, alternative discharge options can be selected.



Accessories

Part No 4612 Module Ring, complete S 32/34000

Increases the height of the cyclone by 0.35 m and volume by ca 0.3 m³.

Part No 40007 Inlet Wear Plate S 32/34000

Inlet wear plate for minimising wall wear on the cyclone when collecting abrasive material.

Part No 819001 Sequence Control S 32/34000

Can be used to activate filter cleaning.

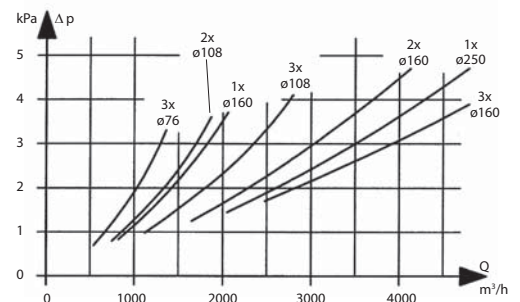
Part No 7195 Widening Chassis

Used when collected material is to be deposited in a container up to 1,1 m³. Increases width between the legs from 860 mm to 1460 mm. "With legs > 3000 mm a widening chassis should be ordered."

Part No 3004 Steel tube 76 mm Galvanized

Delivered in 3 m lengths. Used for longer legs when required (standard leg L = 1400 mm).

Pressure Loss



TECHNICAL DATA	S 11000/S 11000E	S 11000X	S 21000	S 32000	S 34000	S 34000X
Inlet mm	Ø 108	Ø 108	optional	optional	optional	optional
Outlet mm	Ø 108	Ø 108	Ø 250	Ø 250	Ø 250	Ø 250
Max Q	1000 m ³ /h ^{*)}	1000 m ³ /h ^{*)}	1500 m ³ /h ^{*)}	2000 m ³ /h ^{*)}	4000 m ³ /h ^{*)}	5000 m ³ /h ^{*)} Filters:
Pleated Polyester Cartridge						
Part No. and pcs	4292 x 1	4284 x 1	4284 x 1	4292 x 2	4292 x 4	4284 x 4 Total Filter
Area	8.4 m ²	12.0 m ²	12.0 m ²	16.8 m ²	34 m ²	48 m ²
Degree of separation DIN 24184/3	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %
Application Class according to Bia	C	C	C	C	C	C
Max temp filter	130 °C	130 °C	130 °C	130 °C	130 °C	130 °C
Filter cleaning with Reverse Pulse						
Compressed air	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar
Connection, hose	6/8 mm	6/8 mm	6/8 mm	6/8 mm	6/8 mm	6/8 mm
El connection	24V AC, 12 W	24V AC, 12 W	24V AC, 12 W	24V AC, 12 W	24V AC, 12 W	24V AC, 12 W

^{*)} Note: Always consider filter loading.

