

**The successful series of AVD and B AVD are equipped with profiled blades that are factory-adjusted.**

As a result, nearly any operating point in the range of 3 000 to 160 000 m<sup>3</sup>/h at an external pressure of 50 to 1 100 Pa can be achieved.

B AVD smoke and heat exhaust axial fans are used ideally for the car park smoke extraction in public buildings, hotels and shopping centres. When used in car parks they can also be combined as two-stage Z- or parallel P-units.

**Essential advantages are:**

- Aluminium impeller with nine profiled blades for high efficiency and high pressure rate.
- Compact design
- Simple installation
- Low noise and vibration during operation
- With DIBt technical approvals, CE-certified



Supply air fan AVD



AVD system technology



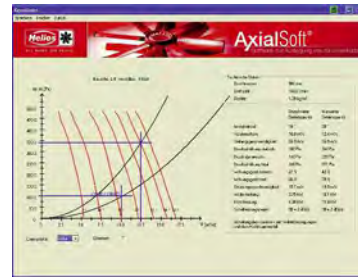
**Helios competence:  
Axial fans, which achieve  
every operating point.**

**Program overview Helios low pressure axial fans:**

- Axial fans in four designs and optionally with EC-drive technology, series program  
**See Helios main catalogue**
- Axial fans for ventilation (air flow temperature from -30 to +40 °C) in the technical building equipment (TGA) Ø 710 to 1 000 mm, V = 8 000 to 80 000 m³/h.  
**Page 18 on**

- Models for smoke and heat extraction according to DIN 12101-3 in temperature classes F 300 (120 minutes), F 400 (120 minutes) und F 600 (120 minutes).  
**Page 26 on**

- Special solutions for the technical building equipment (TGA) and large axial fans from Ø 1 000 to 7 100 mm, air flow rate up to 2.2 million m³/h, are produced according to customer demands.  
**Layout program see [www.AxialSoft.de](http://www.AxialSoft.de)**



Is available for download under [www.heliosventilatoren.de](http://www.heliosventilatoren.de): AxialSoft fo very easy selection of large axial fans.

Axial fan with air flow volume and up to 150 000 m³/h and upstream guide vane. Application: Realistic simulation of different air flow situations.



Axial fans of the type range AVD DL.. with an impeller diameter 3 150 mm. Complete output: approx. 3 Mio. m³/h. Use: In cooling towers of two paper mills.



Being one of the leading European fan producers Helios always impress their customers anew with their extraordinary standard range of axial fans covering all pressure and volume ranges.

Worldwide well-known users trust Helios axial fans for ventilation, heating, cooling and drying applications as well as in safety relevant applications like the smoke extraction.

Large fans from Helios have been used successfully over decades e.g. in cooling towers and condensers.

**Application**

- Versatile application in the TGA-ventilation technology, e.g. for car park ventilation, in smoke pressure systems, etc.
- For preventive fire protection to secure smoke and heat extraction.
- For applications with air flow temperatures of 300 °C for 120 minutes (F300) or 400 °C and 600 °C for 120 min (F400, F600).
- Suitable for continuous operation for temperature from -30 °C to +40 °C.

**Characteristics**

Helios AVD and B AVD are low pressure axial series, that are characterized by a low operating noise, high efficiency and low vibration.

**Models**

- Wall fan AVD DK:  
Circular plate axial with inlet cone. Casing made from galvanised steel. Motor with terminal box and motor side guard.
- Cased axials HRF, AVD RK:  
Cylindrical duct with flanges on both ends. For direct in-line installation in ducting.
- B AVD smoke and heat exhaust fan:  
Cylindrical duct with flanges on both ends. For direct in-line installation in ducting.

**Casing**

Cylindrical duct with flanges on both ends (except AVD DK) from galvanised sheet steel to DIN 24155 PT3. For direct in-line installation in ducting.

**Impeller**

- Series AVD und HRF:  
High-performance characteristics with 5 or 7 profiled blades made from reinforced polymer. Operating range from -30 to +40 °C.
- Series B AVD:  
High-performance characteristics with 5 or 9 profiled blades from aluminium (F300, F400) or steel (F600). Dynamically balanced to DIN 1940-1, class G 6.3.

**Motor**

- Series AVD and HRF:  
Totally enclosed motor, protected to IP 54/ IP 54. Maintenance-free and radio suppressed. With tropicalized protection of windings.
- Series B AVD:  
Direct by IEC-three phase a.c. motor (Smoke Extraction Motors F300 or F400). Protection to IP 55. Insulation class H. External cable with sheathing. Depending on the installation situation, relubrication intervals or bearing re-

placements must be observed (see installation and operating instructions). Cable to the terminal box with fire-resistant sheathing.

**Motor protrusion**

- With some types, the motor casing projects beyond. Protrusion dimension B mm is to be observed according to the type table.

**Motor protection**

- Series AVD:  
All types (except pole-switching and explosion-proof) have thermal contact or PTC resistors as standard and according to footnotes in the table to guard through following full motor protection units:  
<sup>4)</sup> MSA, Ref.-No. 1289 (for PTC resistor)  
<sup>5)</sup> M4, Ref.-No. 1571  
 All other types are to be protected by a conventional circuit breaker on site.
- Series B AVD:  
The B AVD are to be protected by a conventional circuit breaker on site. This is to be bypassed or de-energized automatically in case of smoke and heat extraction.

**Electrical connection**

- Series AVD:  
Standard terminal box (protection to IP 55) from polymer.
- Series B AMD:  
Standard terminal box (protection to IP 55) in temperature-resistant execution.

**Air flow temperature**

- Series AVD:  
Suitable for ventilation from -30 °C to +40 °C continuous temperature.
- Series B AVD:  
Suitable for smoke gase up to 300 °C/120 minutes (F300), 400 °C/120 minutes (F400) and 600 °C/120 minutes (F600).
- Higher air flow temperatures for continuous operation on request.

**Air performance**

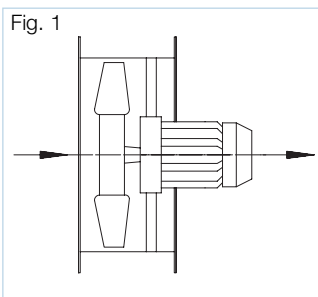
- The smoke and heat exhaust fans B AVD are manufactured with a bigger gap between casing and impeller. A reduced output of approx. 5 % during ventilation mode (cold operation +40 °C) is expected with the F300 types, approx. 10 % with the F400 types. In a smoke extraction situation the gap closes and leads to the performance curves mentioned in the product pages. This has to be taken into account when dimensioning.

**Air flow direction**

- Series AVD DK/RK:  
The blades are adjustable at

standstill, so that ex-works (according order) an optimal adjustment to the operating point is possible. The maximum pitch angle of each type (according to motor power) is specified in the table of the types on the product pages.

- By default, i.e. unless otherwise stated in the order the fans come in air flow direction B = pushing air over the motor (Fig. 1).



- Series AVD DK/RK and HRF:  
Are reversible using a reversing switch (accessories). For reverse air flow direction allow ~30 % loss in performance.
- Series B AVD:  
- With the types B AVD F300/400 the blades are adjustable at standstill, so that ex-works (according order) an optimal adjustment to the operating point is possible.
- The B AVD F600 types are supplied with the pitch angle specified in the table of the types on the product pages.

**Sound levels**

- On the product pages above the performance curves are the spectrum figures and total sound power levels for different pitch angles indicated.

**Certification**

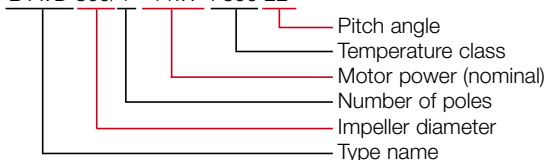
The smoke and heat exhaust fans B AVD were tested to DIN EN 12101-3.  
CE-approval:  
F300 : 0036 CPD RG 05 03  
F400 : 0036 CPD RG 05 06  
F600 : 0036 CPD RG 05 04  
With DIBt technical approval:  
F300 : Z-78.11-144  
F400 : Z-78.11.145  
F600 : Z-78.11-146

**Order data**

The desired pitch angle of the blades is mandatory when ordering.

Example:

B AVD 800/4 4 kW F300 22°



### ■ Installation

#### □ Series AVD:

Suitable for installation in any position, however depending on usage perhaps consider condensation drainage holes.

#### □ Series B AVD:

Horizontal and vertical installation depending on the place of installation:

- Within the fire zone, without heat and sound insulation.
- Outside of the fire zone, within the building with heat and sound insulation L 90.
- Outside of the building without heat and sound insulation.

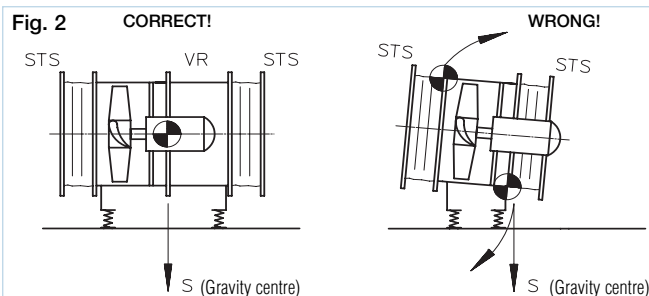
□ To avoid vibration transmission to building and ducting the use of anti vibration mounts (accessories SDD, SDZ) is highly recommended.

If installed outdoors, or in wet conditions or if installed with vertical motor shaft, this must be stated when ordering.

**Compliance with the Federal, as well as the regional fire protection regulations.**

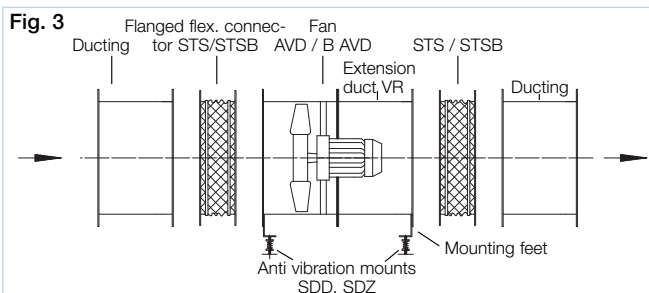
### ■ Duct installation (tilting)

To prevent a tilt-affinity during installation of axial fans with flanged flexible connectors on each side (STS, accessories), an extension duct (type VR, accessories) is to be provided (Fig. 2).



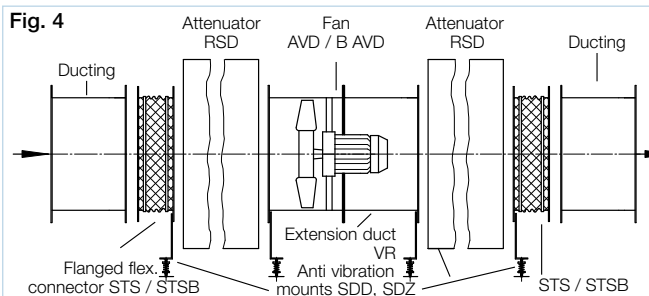
### ■ Duct installation (horizontal)

Arrangement of the mounting feet and anti vibration mounts (accessories) on both flange sides of the unit. Use of anti vibration mounts SDD for compression or SDZ for suspension (ceiling suspension). To prevent sound and vibration transmissions flanged flexible connectors STS (accessories) are to be provided on each side. (Fig. 3).



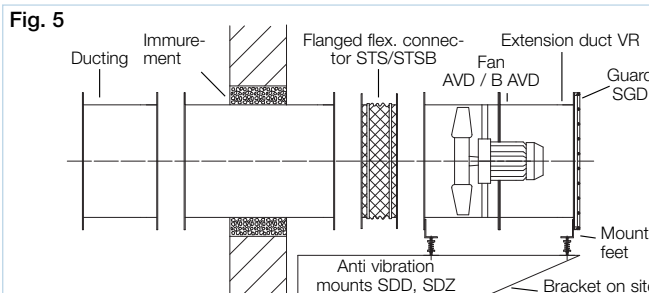
### ■ Duct installation with attenuator on each side

According to the local conditions are brackets (to be provided on site) for fastening of the attenuators and to support the weight required. The intake attenuator must be fitted at the entrance, the outlet attenuator at the discharge with flanged flexible connectors (STS, STSB) (Fig. 4).



### ■ Wall installation (horizontal)

Onto a bracket (to be provided on site). Wall bushing with duct, immurement with mineral wool. Flanged flexible connectors on each side with extension duct VR and guard SG (Fig. 5).



### ■ Series B AVD F600

#### Impeller

High-performance characteristics with 5 profiled blades made of hot-dip galvanized steel. Welded, hot-dip galvanized steel impeller. Dynamically balanced to DIN 1940-1, class G 6.3 < 4.0 mm/s.

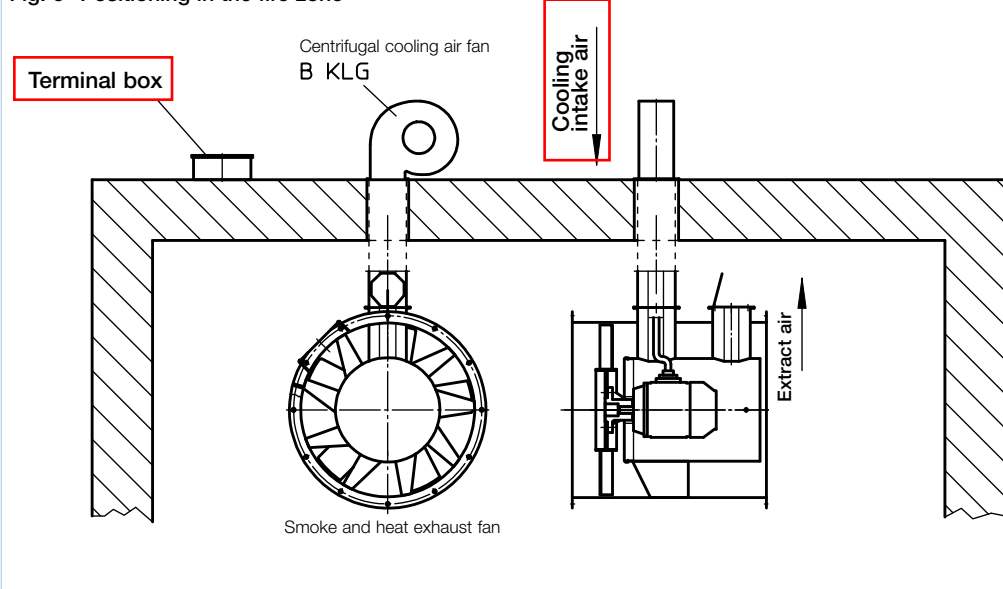
#### Centrifugal cooling air fan

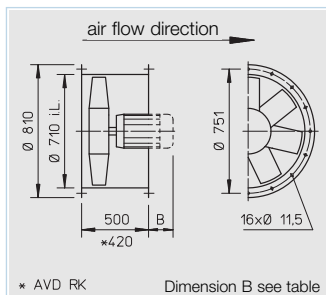
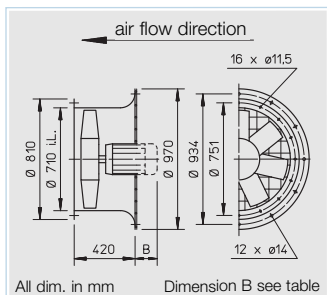
To ensure motor cooling the centrifugal cooling air fan B KLG (Fig. 6) is a necessary accessories. The cooling air fan is to be installed outside of the fire zone (smoke section) (Fig. 6).

Alternative external cooling air fan on request.

Minimum cooling air flow volume see accessories on page 147.

Fig. 6 Positioning in the fire zone



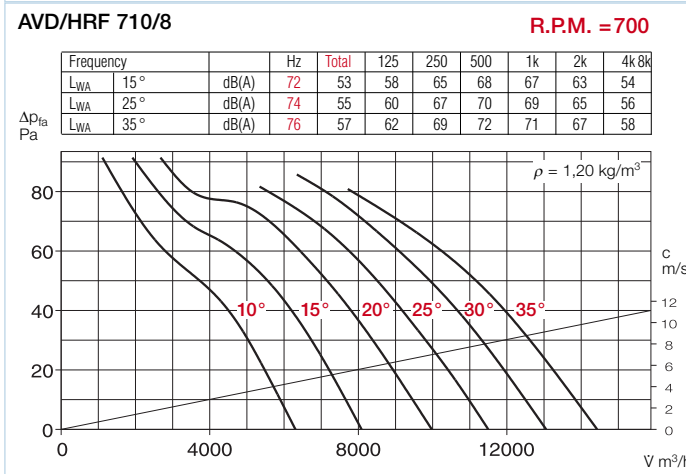
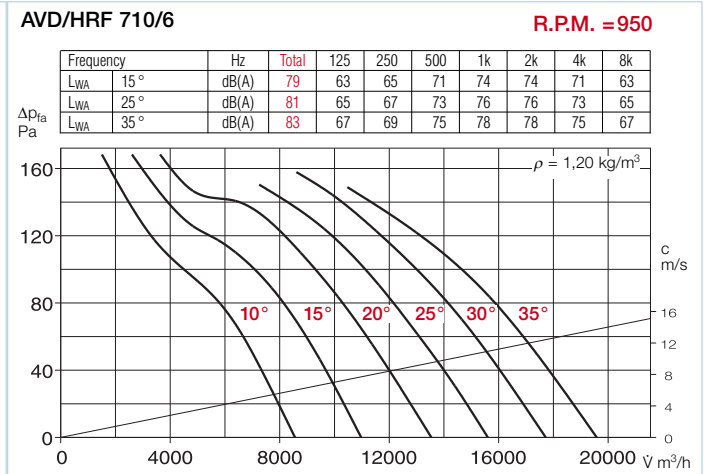
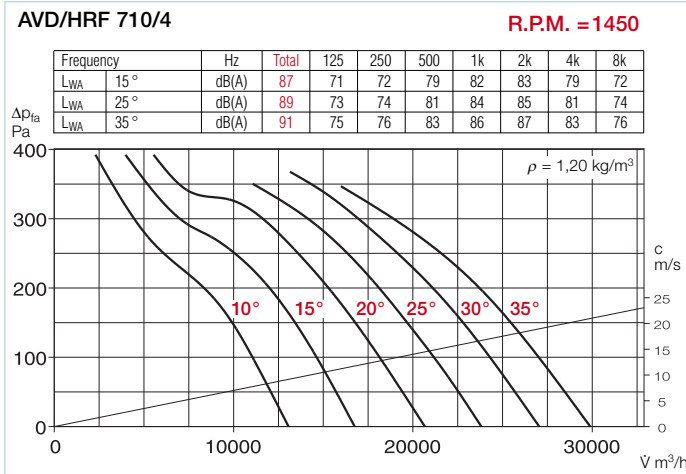


- **Specification**
- **Casing**  
With motor support manufactured from galvanised sheet steel.
- **Impeller**  
Highly efficient, profiled 5 or 7 blade impeller, dynamically balanced and manufactured from impact resistant polymers. Suitable for -30 to +60 °C

- **Pitch angle**  
The pitch angle is adjustable at standstill and has to be stated when ordering. The max. pitch shown for each motor must not be exceeded.
- **Motor**  
Totally enclosed motor, protected to IP 54/IP 55. Sealed for life ball bearings with tropical protection of windings and radio suppression.
- **Motor protection**  
All models (except pole switching and explosion proof) have thermal contacts or PTC resistors and according to footnotes in the table to guard through following full motor protection units:  
<sup>1)</sup>MD, Ref. No. 5849  
<sup>2)</sup>MSA, Ref. No. 1289 (for PTC resistor)  
<sup>3)</sup>M4, Ref. No. 1571  
 All other models have to be protected by a conventional circuit breaker on site.
- **Guard**  
Standard for AVD DK to DIN EN ISO 13857, galvanised or powder coated.
- **Electrical connection**  
Terminals in motor cap (IP 54). HRF and AVD DK models are pre wired to an additional terminal box (IP 54) fitted externally on the casing. Explosion proof models may vary.
- **Speed control**  
Some models are controllable by transformer controller (see table). All models (except explosion proof) are speed controllable by frequency inverter. The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.
- **Reversed operation**  
All models are reversible when wired to a reversing switch. For reverse air flow direction allow for 1/3 loss in performance.
- **Installation**  
Installation in any position. Ensure that the motor drainage holes face downwards
- **Dimensions**  
Dimensions are shown above. Pole-switching and explosion proof models may vary. Note dimension B in table below.
- **Sound levels**  
Sound power levels in dB(A) (spectrum and totals) are given above the performance curves.

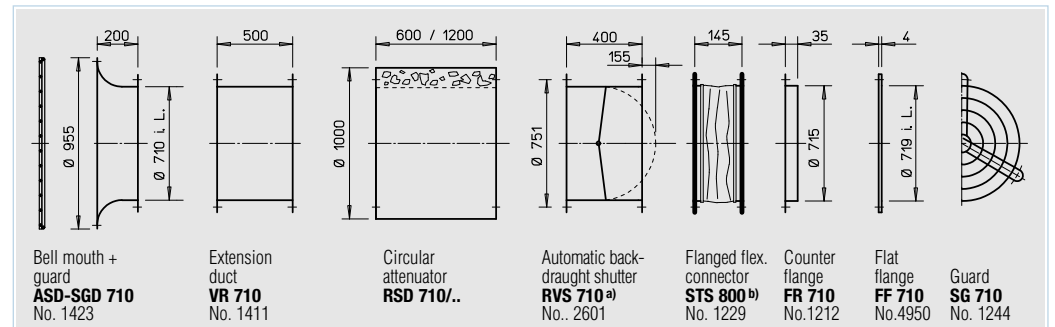
R.P.M.	Air flow volume (FID)	Motor power (nominal)	Voltage	Current at full load	Max. pitch angle	Wiring diagram	Max. air flow temp.	Nominal weight (net)*	Fan type				Dim. B Motor protrusion mm	Transformer controller for 5 speed control		
									AVD DK incl. guard	Ref. No.	HRFD, AVD RK	Ref. No.		Type	Ref. No.	
min <sup>-1</sup>	V m <sup>3</sup> /h	kW	V	A	°	No.	+°C	ca. kg								
<b>3 Phase motor, 400/690 Volt / 50 Hz, protection to IP 54</b>																
700	13330	0,37	400	1,6/(1,6)	31	469	40	57,0	AVD DK 710/8/.. <sup>1)</sup>	5251	HRFD 710/8/.. <sup>1)</sup>	6930	95	RDS 2 <sup>4)</sup>	1315	
1440	26420	3,00	400	6,33	30	776	40	92,0	AVD DK 710/4/.. <sup>2)</sup>	5258	HRFD 710/4/.. <sup>2)</sup>	6937	190	—	—	
<b>2 speed motor, 3 Phase, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55</b>																
775/920	13550/16090	0,43/0,75	400	1,2/2,2	28	520	40	55,0	AVD DK 710/6/6/.. <sup>3)</sup>	5254	HRFD 710/6/6/.. <sup>3)</sup>	6933	95	RDS 4 <sup>4)</sup>	1316	
775/930	15560/19170	0,71/1,30	400	2,1/3,5	35	520	40	60,0	AVD DK 710/6/6/.. <sup>3)</sup>	5255	HRFD 710/6/6/.. <sup>3)</sup>	6934	135	RDS 4 <sup>4)</sup>	1316	
1120/1365	16140/19670	0,95/1,55	400	2,1/3,7	20	520	40	60,0	AVD DK 710/4/4/.. <sup>3)</sup>	5256	HRFD 710/4/4/.. <sup>3)</sup>	6935	135	RDS 7 <sup>4)</sup>	1578	
1140/1370	19370/23280	1,5/2,2	400	3,5/5,9	26	520	40	75,0	AVD DK 710/4/4/.. <sup>3)</sup>	5257	HRFD 710/4/4/.. <sup>3)</sup>	6936	180	RDS 7 <sup>4)</sup>	1578	
<b>2 speed motor, pole-switching, Dahlander-windings, 400 Volt / 3 ph. / 50 Hz, protection to IP 54</b>																
450/915	7800/16250	0,15/0,75	400	0,85/2,15	28	471	40	70,0	AVD DK 710/12/6/..	5260	HRFD 710/12/6/..	6939	135	PDA 12 <sup>5)</sup>	5081	
455/940	9375/19370	0,25/1,10	400	1,2/2,9	35	471	40	75,0	AVD DK 710/12/6/..	5261	HRFD 710/12/6/..	6940	180	PDA 12 <sup>5)</sup>	5081	
695/1420	10810/22090	0,50/2,00	400	1,6/4,8	23	471	40	82,0	AVD DK 710/8/4/..	5263	HRFD 710/8/4/..	6942	180	PDA 12 <sup>5)</sup>	5081	
700/1435	14155/29020	0,90/3,60	400	2,6/7,7	34	471	40	108,0	AVD DK 710/8/4/..	5264	AVD RK 710/8/4/..	6943	210	PDA 12 <sup>5)</sup>	5081	
<b>Explosion proof E Exe II, 400/690 Volt / 3 ph. / 50 Hz, protection to IP 54, temperature class T1-T3</b>																
700	10450	0,55	400	2,15	35	470	40	68,0	AVD DK 710/8 Ex/..	5270	HRFD 710/8 Ex/..	6948	125	not permitted		
930	13480	0,55	400	1,83	25	470	40	67,0	AVD DK 710/6 Ex/..	5272	HRFD 710/6 Ex/..	6949	95	not permitted		
930	16770	0,95	400	2,70	35	470	40	77,0	AVD DK 710/6 Ex/..	5273	HRFD 710/6 Ex/..	6950	135	not permitted		
1420	20540	2,00	400	4,65	25	470	40	82,0	AVD DK 710/4 Ex/..	5275	AVD RK 710/4 Ex/..	6951	180	not permitted		
1420	26160	3,60	400	8,10	35	498	40	102,0	AVD DK 710/4 Ex/..	5276	AVD RK 710/4 Ex/..	6952	200	not permitted		

<sup>1)</sup> to <sup>3)</sup> full motor protection unit, see description motor protection    \*Nominal weights for types ...DK and ...RK. For types HRF and HQ less 15 kg    <sup>4)</sup> Incl. full motor protection

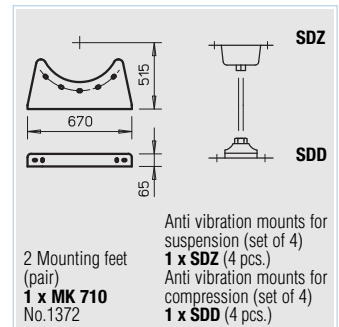


**Accessories for cased axial fans – Specification see pages 146 on**

Electronic controller for stepless control, Frequency inverter		Anti vibration mounts nominal size	
Type	Ref.No.	SDD /SDZ	Ref.No.
<b>ESD 5<sup>4)</sup></b>	0501	..1/..1	1452/1454
<b>FU-BS 8,0<sup>4)</sup></b>	5461	..2/..2	1453/1455
<b>ESD 5<sup>4)</sup></b>	0501	..1/..1	1452/1454
<b>ESD 5<sup>4)</sup></b>	0501	..1/..1	1452/1454
<b>ESD 5<sup>4)</sup></b>	0501	..1/..1	1452/1454
<b>ESD 11,5<sup>4)</sup></b>	0502	..1/..2	1452/1455
—	—	..1/..2	1452/1455
—	—	..1/..2	1452/1455
—	—	..2/..2	1453/1455
—	—	..2/..2	1453/1455
not permitted	..1/..2	1452/1455	
not permitted	..1/..2	1452/1455	
not permitted	..1/..2	1452/1455	
not permitted	..2/..2	1453/1455	
not permitted	..2/..2	1453/1455	

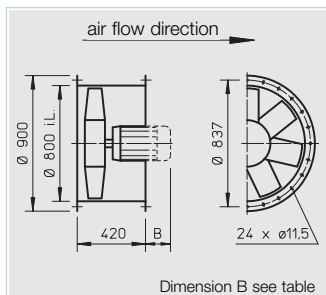
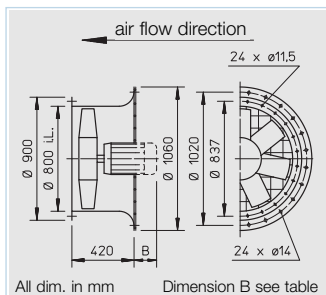


a) For motorised shutters see accessory pages    b) Models for ex-proof fans see below



Information	Pages	Other accessories	Pages
Technical description	16 on	<b>Accessory for explosion proof fans</b>	
Design of systems	3 on		
<b>Made to order designs</b>		<b>Flanged flexible connector STS 710 Ex</b>	Ref.No. 2510
Alternative voltages, frequencies, protection classes, acid protection, high temperatures, air flow direction, aluminium cast impeller etc. are available on request.		Mounting accessories	146 on
		Attenuators	151
		Gas warning systems, circuitry and control technology	152 on
		Frequency inverter	162 on

<sup>5)</sup> see product page for flush mounted version



- **Specification**
- **Casing**  
With motor support manufactured from galvanised sheet steel.
- **Impeller**  
Highly efficient, profiled 5 or 7 blade impeller, dynamically balanced and manufactured from impact resistant polymers. Suitable for -30 to +60 °C.
- **Pitch angle**  
To achieve the optimum operating point a choice of pitch

angles are available. Pitch angle is set during manufacture (to order). The matching motor is supplied and the maximum pitch angle shown must not be exceeded (see table below).

- **Motor**  
Totally enclosed motor, protected to IP 54/IP 55. Sealed for life ball bearings with tropical protection of windings and radio suppression.
- **Motor protection**  
All models (except pole switching and explosion proof) have thermal contacts or PTC resistors and according to footnotes in the table to guard through following full motor protection units:  
  - <sup>4)</sup>MSA, Ref. No. 1289 (for PTC resistor)
  - <sup>5)</sup>M4, Ref. No. 1571
 All other models have to be protected by a conventional circuit breaker on site.
- **Electrical connection**  
Terminals in motor cap (IP 54).
- **Guard**  
AVD DK models have hot dipped zinc plated motor side wire guard to DIN EN ISO 13857 as standard.

- **Speed control**  
Some models are controllable by transformer controller (see table). All models (except explosion proof) are speed controllable by frequency inverter.  
The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.
- **Reversed operation**  
All models are reversible when wired to a reversing switch. For reverse air flow direction allow for 1/3 loss in performance.
- **Installation**  
Installation in any position. Ensure that the motor drainage holes face downwards.
- **Dimensions**  
Dimensions are shown above. Pole-switching and explosion proof models may vary. Note dimension B in table below.
- **Sound levels**  
Sound power levels in dB(A) (spectrum and totals) are given above the performance curves.

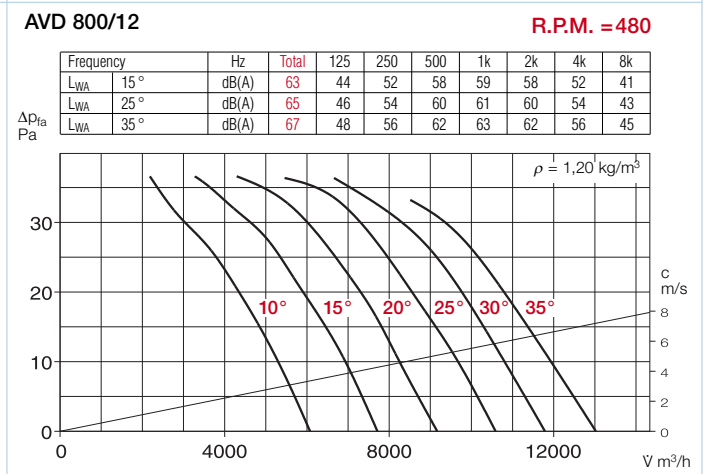
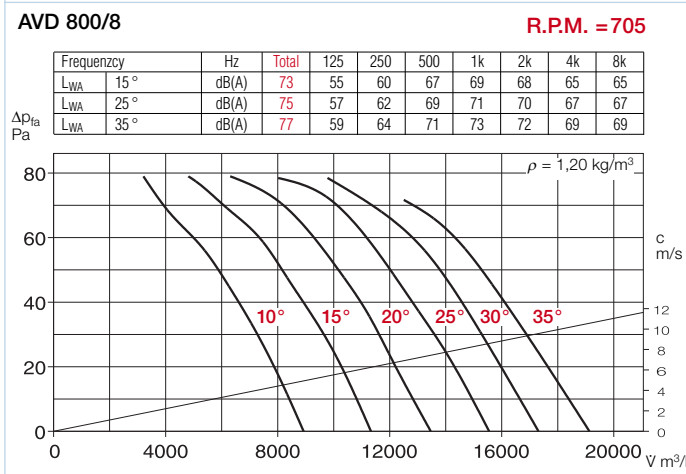
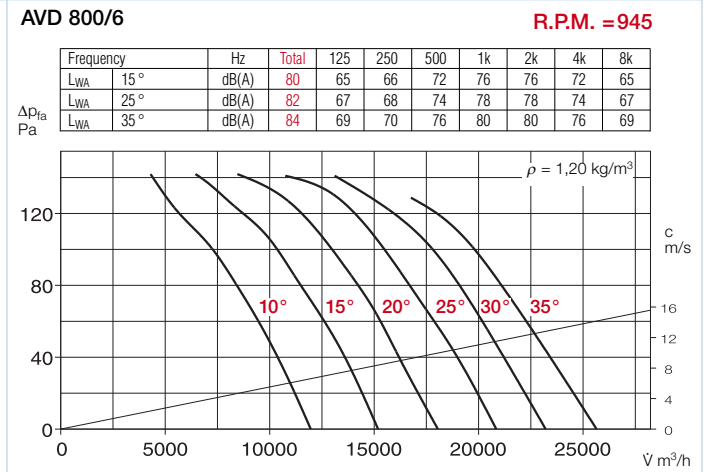
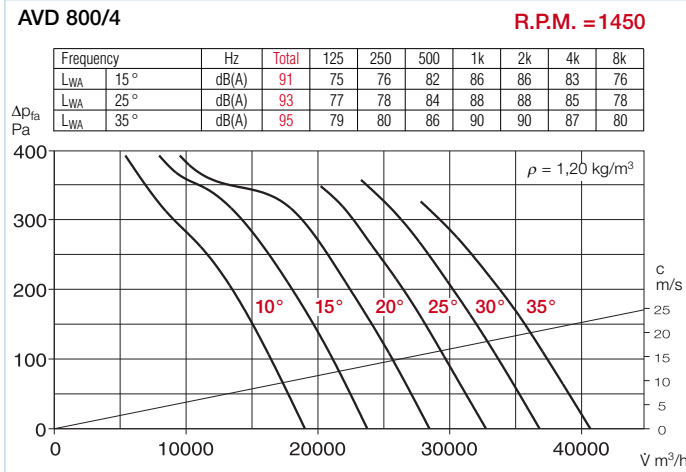
R.P.M.	Air flow volume (FID)	Motor power (nominal)	Voltage	Current at full load	Max. pitch angle	Wiring diagram	Max. air flow temp.	Nominal weight (net)	Fan type				Dim. B Motor protrusion	Transformer controller for 5 speed control		
									AVD DK incl. guard	Ref. No.	AVD RK	Ref. No.		Type	Ref.No.	
min <sup>-1</sup>	V m <sup>3</sup> /h	kW	V	A	°	No.	+°C	ca. kg					mm			
<b>3 Phase motor, 400/690 Volt / 50 Hz, protection to IP 54</b>																
695	17780	0,55	400	2,0	32	776	40	73	AVD DK 800/8/.. <sup>4)</sup>	5305	AVD RK 800/8/.. <sup>4)</sup>	6954	135	—	—	
1440	33450	4,00	400	8,23	26	776	40	103	AVD DK 800/4/.. <sup>4)</sup>	5311	AVD RK 800/4/.. <sup>4)</sup>	6960	240	—	—	
1450	39190	5,50	400	10,9	33	776	40	126	AVD DK 800/4/.. <sup>4)</sup>	5312	AVD RK 800/4/.. <sup>4)</sup>	6961	290	—	—	
<b>2 speed motor, 3 Phase, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55</b>																
580/685	15740/18590	0,40/0,67	400	1,0/2,9	35	520	40	86	AVD DK 800/8/8/.. <sup>5)</sup>	5306	AVD RK 800/8/8/.. <sup>5)</sup>	6955	180	RDS 4 <sup>6)</sup>	1316	
775/920	15720/18670	0,43/0,75	400	1,2/2,2	22	520	40	70	AVD DK 800/6/6/.. <sup>5)</sup>	5307	AVD RK 800/6/6/.. <sup>5)</sup>	6956	125	RDS 4 <sup>6)</sup>	1316	
755/930	19430/23930	0,71/1,32	400	2,1/3,5	32	520	40	98	AVD DK 800/6/6/.. <sup>5)</sup>	5309	AVD RK 800/6/6/.. <sup>5)</sup>	6958	180	RDS 4 <sup>6)</sup>	1316	
<b>2 speed motor, pole-switching, Dahlander-windings, 400 Volt / 3 ph. / 50 Hz, protection to IP 54</b>																
450/900	8595/17190	0,12/0,55	400	0,6/1,6	20	471	40	80	AVD DK 800/12/6/.. <sup>1)</sup>	5316	AVD RK 800/12/6/.. <sup>1)</sup>	6965	135	PDA 12 <sup>3)</sup>	5081	
455/940	10945/22610	0,25/1,10	400	1,2/2,9	29	471	40	88	AVD DK 800/12/6/.. <sup>1)</sup>	5317	AVD RK 800/12/6/.. <sup>1)</sup>	6966	180	PDA 12 <sup>3)</sup>	5081	
455/950	12350/25780	0,33/2,00	400	1,9/5,0	35	471	40	98	AVD DK 800/12/6/.. <sup>1)</sup>	5318	AVD RK 800/12/6/.. <sup>1)</sup>	6967	290	PDA 12 <sup>3)</sup>	5081	
695/1400	10020/20180	0,37/1,50	400	1,4/3,7	12	471	40	95	AVD DK 800/8/4/.. <sup>1)</sup>	5319	AVD RK 800/8/4/.. <sup>1)</sup>	6968	135	PDA 12 <sup>3)</sup>	5081	
700/1435	15810/32410	0,90/3,60	400	3,4/8,0	25	471	40	103	AVD DK 800/8/4/.. <sup>1)</sup>	5320	AVD RK 800/8/4/.. <sup>1)</sup>	6969	210	PDA 12 <sup>3)</sup>	5081	
715/1450	20110/40780	1,80/6,50	400	5,7/14,5	35	471	40	121	AVD DK 800/8/4/.. <sup>1)</sup>	5321	AVD RK 800/8/4/.. <sup>1)</sup>	6970	325	PDA 25	5060	
970/1440	15880/23580	0,75/2,10	400	2,3/4,6	15	473	40	95	AVD DK 800/6/4/.. <sup>2)</sup>	5322	AVD RK 800/6/4/.. <sup>2)</sup>	6971	180	PGWA 12 <sup>3)</sup>	5083	
965/1435	19515/29020	1,00/3,00	400	2,9/6,6	21	473	40	116	AVD DK 800/6/4/.. <sup>2)</sup>	5323	AVD RK 800/6/4/.. <sup>2)</sup>	6972	210	PGWA 12 <sup>3)</sup>	5083	
970/1450	27280/40780	2,20/6,00	400	5,6/12,5	35	473	40	128	AVD DK 800/6/4/.. <sup>2)</sup>	5324	AVD RK 800/6/4/.. <sup>2)</sup>	6973	325	PGWA 25	5061	
<b>Explosion proof E Exe II, 400/690 Volt / 3 ph. / 50 Hz, protection to IP 54, temperature class T1-T3</b>																
700	17190	0,55	400	2,15	32	470	40	81	AVD DK 800/8 Ex/..	5326	AVD RK 800/8 Ex/..	6974	135	not permitted		
930	20340	0,95	400	2,70	23	470	40	90	AVD DK 800/6 Ex/..	5329	AVD RK 800/6 Ex/..	6976	135	not permitted		
950	26710	1,90	400	4,70	35	470	40	118	AVD DK 800/6 Ex/..	5330	AVD RK 800/6 Ex/..	6977	210	not permitted		
1420	31900	3,60	400	8,10	24	498	40	115	AVD DK 800/4 Ex/..	5332	AVD RK 800/4 Ex/..	6978	210	not permitted		
1450	36820	5,00	400	10,00	30	498	40	143	AVD DK 800/4 Ex/..	5333	AVD RK 800/4 Ex/..	6979	290	not permitted		

<sup>1)</sup> Dahlander winding

<sup>2)</sup> Separate windings

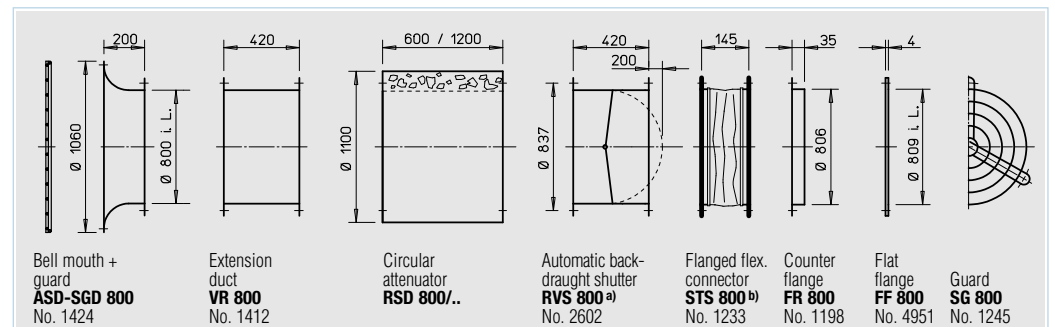
<sup>3)</sup> see product page for flush mounted version

<sup>4)</sup> and <sup>5)</sup> full motor protection unit, see description motor protection

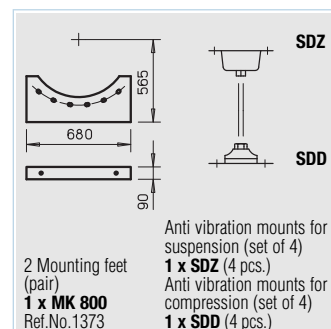


Electronic controller for stepless control, Frequency inverter		Anti vibration mounts nominal size	
Type	Ref.No.	Type	Ref.No.
<b>FU-BS 2,5<sup>6)</sup></b>	5459	<b>..1/..2</b>	1452/1455
<b>FU-BS 10<sup>6)</sup></b>	5462	<b>..2/..2</b>	1453/1455
<b>FU-BS 14<sup>6)</sup></b>	5463	<b>..2/..2</b>	1453/1455
<b>ESD 5<sup>6)</sup></b>	0501	<b>..2/..2</b>	1453/1455
<b>ESD 5<sup>6)</sup></b>	0501	<b>..1/..2</b>	1452/1455
<b>ESD 5<sup>6)</sup></b>	0501	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455

### Accessories for cased axial fans – Specification see pages 146 on



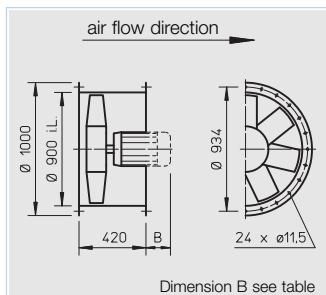
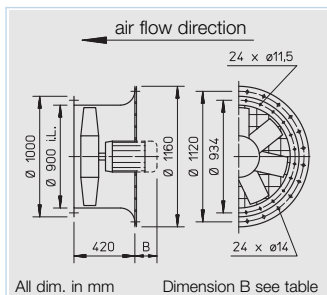
<sup>a)</sup> For motorised shutters see accessory pages <sup>b)</sup> Models for ex-proof fans see below



Information	Pages	Other accessories	Pages
Technical description	16 on	<b>Accessory for explosion proof fans</b>	
Design of systems	3 on	<b>Flanged flexible connector STS 800 Ex</b>	Ref.No. 2511
<b>Made to order designs</b>		Mounting accessories	146 on
Alternative voltages, frequencies, protection classes, acid protection, high temperatures, air flow direction, aluminium cast impeller etc. are available on request.		Attenuators	151
		Gas warning systems, circuitry and control technology	152 on
		Frequency inverter	162 on

<sup>6)</sup> incl. full motor protection





■ Specification

□ **Casing**  
With motor support manufactured from galvanised sheet steel.

□ **Impeller**  
Highly efficient, profiled 5 or 7 blade impeller, dynamically balanced and manufactured from impact resistant polymers. Suitable for -30 to +60 °C.

□ **Pitch angle**  
To achieve the optimum operating point a choice of pitch angles are available. Pitch angle is set during manufacture (to order). The matching motor is supplied and the maximum pitch angle shown must not be exceeded (see table below).

□ **Motor**  
Totally enclosed motor, protected to IP 54/IP 55. Sealed for life ball bearings with tropical protection of windings and radio suppression.

□ **Motor protection**  
All models (except pole switching and explosion proof) have thermal contacts or PTC resistors and according to footnotes in the table to guard through following full motor protection units:  
4) MSA, Ref. No. 1289 (for PTC resistor)  
5) M4, Ref. No. 1571  
All other models have to be protected by a conventional circuit breaker on site.

□ **Electrical connection**  
Terminals in motor cap (IP 54).

□ **Guard**  
AVD DK models have hot dipped zinc plated motor side wire guard to DIN EN ISO 13857 as standard.

□ **Speed control**  
Some models are controllable by transformer controller (see table). All models (except explosion proof) are speed controllable by frequency inverter.

The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

□ **Reversed operation**  
All models are reversible when wired to a reversing switch. For reverse air flow direction allow for 1/3 loss in performance.

□ **Installation**  
Installation in any position. Ensure that the motor drainage holes face downwards.

□ **Dimensions**  
Dimensions are shown above. Pole-switching and explosion proof models may vary. Note dimension B in table below.

□ **Sound levels**  
Sound power levels in dB(A) (spectrum and totals) are given above the performance curves.

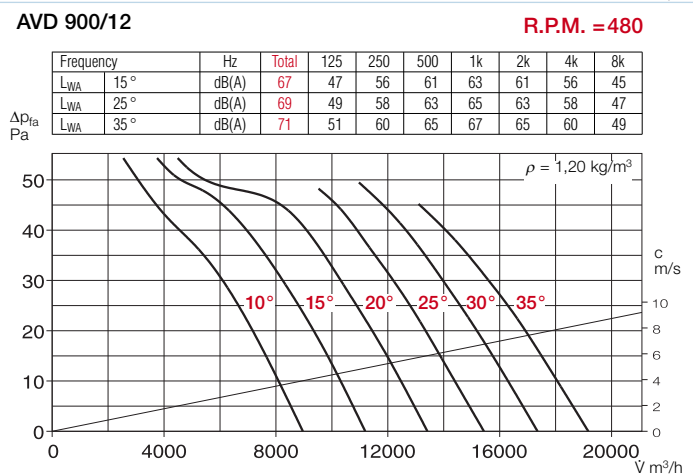
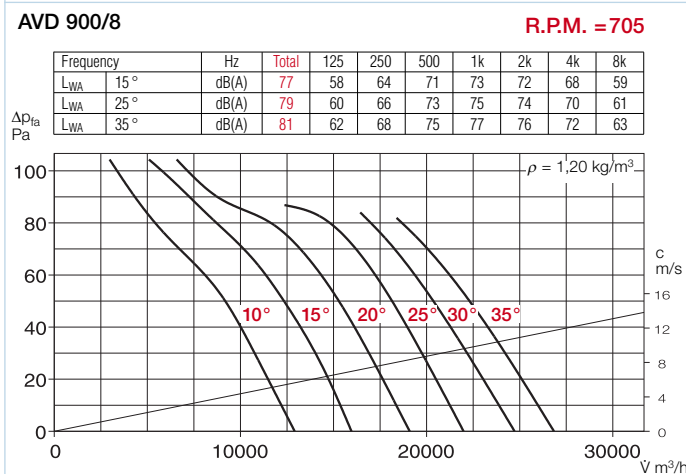
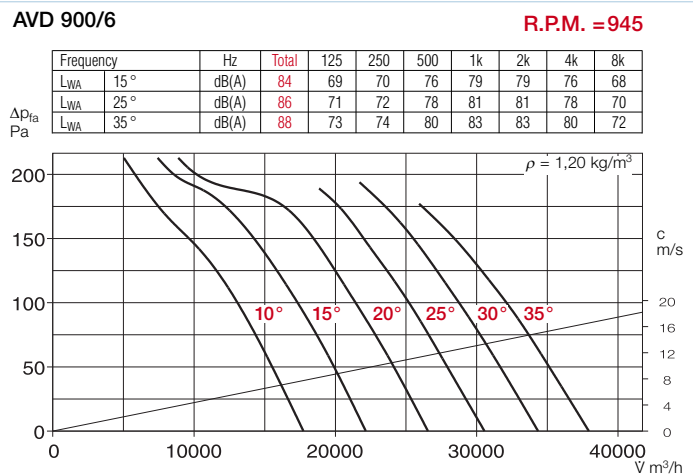
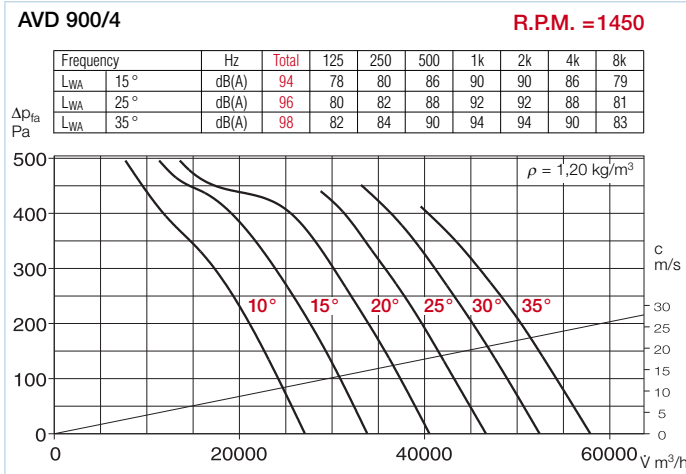
R.P.M.	Air flow volume (FID)	Motor power (nominal)	Voltage	Current at full load	Max. pitch angle	Wiring diagram	Max. air flow temp.	Nominal weight (net)	Fan type				Dim. B Motor protrusion	Transformer controller for 5 speed control	
									AVD DK incl. guard	Ref. No.	AVD RK	Ref. No.		Type	Ref.No.
min <sup>-1</sup>	∇ m <sup>3</sup> /h	kW	V	A	°	No.	+°C	ca. kg					mm		
<b>3 Phase motor, 400/690 Volt / 50 Hz, protection to IP 54</b>															
695	19970	0,55	400	2,0	23	776	40	90	AVD DK 900/8/.. <sup>4)</sup>	5364	AVD RK 900/8/.. <sup>4)</sup>	6980	135	—	—
860	37300	3,00	400	6,84	34	776	40	137	AVD DK 900/6/.. <sup>4)</sup>	5369	AVD RK 900/6/.. <sup>4)</sup>	6985	290	—	—
1440	35030	4,00	400	8,23	16	776	40	120	AVD DK 900/4/.. <sup>4)</sup>	5370	AVD RK 900/4/.. <sup>4)</sup>	6986	220	—	—
1450	48995	7,50	400	14,5	27	776	40	157	AVD DK 900/4/.. <sup>4)</sup>	5371	AVD RK 900/4/.. <sup>4)</sup>	6987	325	—	—
1450	57720	11,00	400	21,6	34	776	40	246	AVD DK 900/4/.. <sup>4)</sup>	5372	AVD RK 900/4/.. <sup>4)</sup>	6988	430	—	—
<b>2 speed motor, 3 Phase, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55</b>															
580/685	18465/21810	0,40/0,67	400	1,0/2,9	27	520	40	105	AVD DK 900/8/8/.. <sup>5)</sup>	5365	AVD RK 900/8/8/.. <sup>5)</sup>	6981	180	RDS 4 <sup>6)</sup>	1316
605/695	22400/25730	0,60/1,22	400	2,2/4,3	35	520	40	115	AVD DK 900/8/8/.. <sup>5)</sup>	5366	AVD RK 900/8/8/.. <sup>5)</sup>	6982	210	RDS 7 <sup>6)</sup>	1578
755/930	18390/22660	0,71/1,32	400	2,1/3,5	19	520	40	90	AVD DK 900/6/6/.. <sup>5)</sup>	5367	AVD RK 900/6/6/.. <sup>5)</sup>	6983	180	RDS 4 <sup>6)</sup>	1316
770/920	25990/31060	1,6/2,37	400	3,9/7,1	27	520	40	115	AVD DK 900/6/6/.. <sup>5)</sup>	5368	AVD RK 900/6/6/.. <sup>5)</sup>	6984	210	RDS 11 <sup>6)</sup>	1332
<b>2 speed motor, pole-switching, Dahlander-windings, 400 Volt / 3 ph. / 50 Hz, protection to IP 54</b>															
455/940	11030/22790	0,25/1,10	400	1,2/2,9	16	471	40	105	AVD DK 900/12/6/.. <sup>1)</sup>	5376	AVD RK 900/12/6/.. <sup>1)</sup>	6992	180	PDA 12 <sup>3)</sup>	5081
455/940	14995/30980	0,33/2,00	400	1,9/5,0	26	471	40	115	AVD DK 900/12/6/.. <sup>1)</sup>	5377	AVD RK 900/12/6/.. <sup>1)</sup>	6993	325	PDA 12 <sup>3)</sup>	5081
455/950	18220/38040	0,70/3,20	400	2,5/6,7	35	471	40	140	AVD DK 900/12/6/.. <sup>1)</sup>	5378	AVD RK 900/12/6/.. <sup>1)</sup>	6994	325	PDA 12 <sup>3)</sup>	5081
700/1435	18270/37450	1,10/4,50	400	3,8/10,5	18	471	40	120	AVD DK 900/8/4/.. <sup>1)</sup>	5379	AVD RK 900/8/4/.. <sup>1)</sup>	6995	290	PDA 12 <sup>3)</sup>	5081
715/1450	22390/45410	1,80/6,50	400	5,7/14,5	24	471	40	148	AVD DK 900/8/4/.. <sup>1)</sup>	5380	AVD RK 900/8/4/.. <sup>1)</sup>	6996	325	PDA 25	5060
725/1440	29030/58660	3,50/12,50	400	9,1/25,5	35	471	40	191	AVD DK 900/8/4/.. <sup>1)</sup>	5381	AVD RK 900/8/4/.. <sup>1)</sup>	6997	430	—	—
950/1435	22145/33450	1,50/3,70	400	4,0/7,8	15	473	40	133	AVD DK 900/6/4/.. <sup>2)</sup>	5382	AVD RK 900/6/4/.. <sup>2)</sup>	6998	290	PGWA 12 <sup>3)</sup>	5083
970/1450	28745/42970	2,20/6,00	400	5,6/12,5	22	473	40	190	AVD DK 900/6/4/.. <sup>2)</sup>	5383	AVD RK 900/6/4/.. <sup>2)</sup>	6999	325	PGWA 25	5061
975/1440	34470/50910	3,00/8,20	400	7,3/16,5	29	473	40	210	AVD DK 900/6/4/.. <sup>2)</sup>	5384	AVD RK 900/6/4/.. <sup>2)</sup>	6898	385	PGWA 25	5061
<b>Explosion proof E Exe II, 400/690 Volt / 3 ph. / 50 Hz, protection to IP 54, temperature class T1-T3</b>															
700	24470	0,95	400	2,75	27	470	40	110	AVD DK 900/8 Ex/..	5386	AVD RK 900/8 Ex/..	6899	180	not permitted	
725	28470	1,30	400	3,70	34	470	40	130	AVD DK 900/8 Ex/..	5387	AVD RK 900/8 Ex/..	6900	210	not permitted	
950	30550	1,90	400	4,70	25	470	40	135	AVD DK 900/6 Ex/..	5389	AVD RK 900/6 Ex/..	6901	210	not permitted	
950	38040	3,50	400	8,50	35	498	40	160	AVD DK 900/6 Ex/..	5390	AVD RK 900/6 Ex/..	6902	290	not permitted	
1450	46630	6,80	400	13,30	25	498	40	175	AVD DK 900/4 Ex/..	5392	AVD RK 900/4 Ex/..	6903	325	not permitted	
1465	55240	10,00	400	19,30	32	498	40	235	AVD DK 900/4 Ex/..	5393	AVD RK 900/4 Ex/..	6904	385	not permitted	

1) Dahlander winding

2) Separate windings

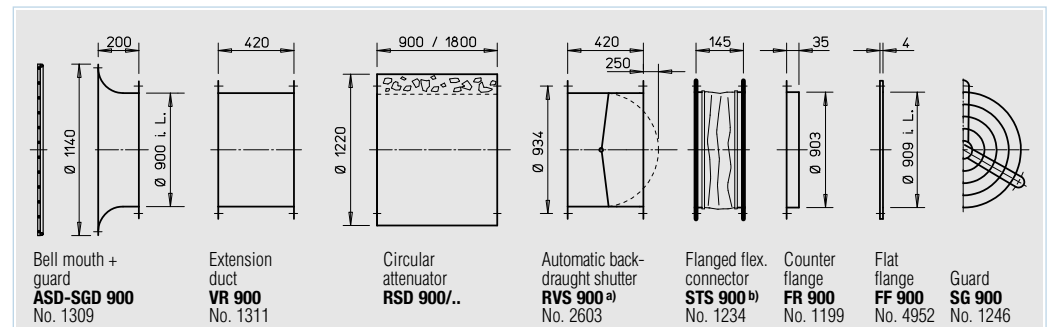
3) see product page for flush mounted version

4) and 5) full motor protection unit, see description motor protection

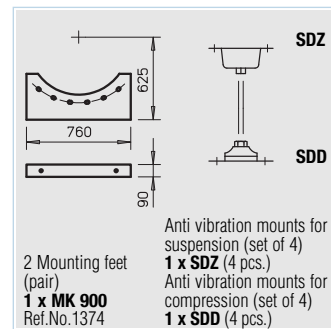


Electronic controller for stepless control, Frequency inverter		Anti vibration mounts nominal size	
Type	Ref.No.	SDD /SDZ	Ref.No.
FU-BS 2,5 <sup>6)</sup>	5459	..2/..2	1453/1455
FU-BS 8,0 <sup>6)</sup>	5461	..2/..2	1453/1455
FU-BS 10 <sup>6)</sup>	5462	..2/..2	1453/1455
FU-CS 18 <sup>6)</sup>	5469	..2/..2	1453/1455
FU-CS 22 <sup>6)</sup>	5470	..3/..3	1367/1366
ESD 5 <sup>6)</sup>	0501	..2/..2	1453/1455
ESD 5 <sup>6)</sup>	0501	..2/..2	1453/1455
ESD 5 <sup>6)</sup>	0501	..2/..2	1453/1455
ESD 11,5 <sup>6)</sup>	0502	..2/..2	1453/1455
—	—	..2/..2	1453/1455
—	—	..2/..2	1453/1455
—	—	..2/..2	1453/1455
—	—	..2/..2	1453/1455
—	—	..3/..3	1367/1366
—	—	..2/..2	1453/1455
—	—	..3/..3	1367/1366
—	—	..3/..3	1367/1366
not permitted	..2/..2	1453/1455	
not permitted	..2/..2	1453/1455	
not permitted	..2/..2	1453/1455	
not permitted	..2/..2	1453/1455	
not permitted	..2/..3	1453/1366	
not permitted	..3/..3	1367/1366	

### Accessories for cased axial fans – Specification see pages 146 on

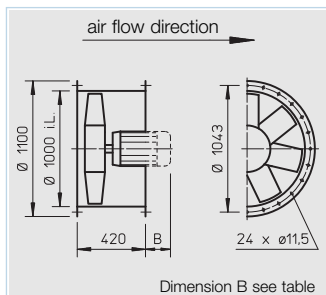
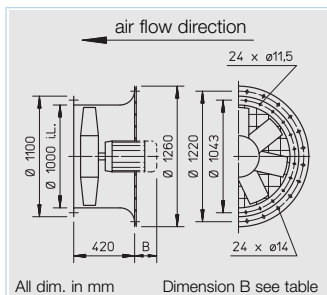


a) For motorised shutters see accessory pages b) Models for ex-proof fans see below



Information	Pages	Other accessories	Pages
Technical description	16 on	b) Accessory for explosion proof fans	
Design of systems	3 on		
<b>Made to order designs</b>		<b>Flanged flexible connector STS 900 Ex</b> Ref.No. 2512	
Alternative voltages, frequencies, protection classes, acid protection, high temperatures, air flow direction, aluminium cast impeller etc. are available on request.		Mounting accessories	146 on
		Attenuators	151
		Gas warning systems, circuitry and control technology	152 on
		Frequency inverter	162 on

<sup>6)</sup> incl. full motor protection



■ Specification

□ **Casing**  
With motor support manufactured from galvanised sheet steel.

□ **Impeller**  
Highly efficient, profiled 5 blade impeller, dynamically balanced and manufactured from impact resistant polymers.  
Suitable for -30 to +60 °C.

□ **Pitch angle**  
To achieve the optimum operating point a choice of pitch angles are available. Pitch angle is set during manufacture (to order). The matching motor is supplied and the maximum pitch angle shown must not be exceeded (see table below).

□ **Motor**  
Totally enclosed motor, protected to IP 54/IP 55. Sealed for life ball bearings with tropical protection of windings and radio suppression.

□ **Motor protection**  
All models (except pole switching and explosion proof) have thermal contacts or PTC resistors and according to footnotes in the table to guard through following full motor protection units:  
4)MSA, Ref. No. 1289 (for PTC resistor)  
5)M4, Ref. No. 1571  
All other models have to be protected by a conventional circuit breaker on site.

□ **Electrical connection**  
Terminals in motor cap (IP 54).

□ **Guard**  
AVD DK models have hot dipped zinc plated motor side wire guard to DIN EN ISO 13857 as standard

□ **Speed control**  
Some models are controllable by transformer controller (see table). All models (except explosion proof) are speed controllable by frequency inverter.

The planned use of a frequency inverter without sine filter must be stated when ordering. This causes a change of the fan execution and if necessary additional costs.

□ **Reversed operation**  
All models are reversible when wired to a reversing switch. For reverse air flow direction allow for 1/3 loss in performance.

□ **Installation**  
Installation in any position. Ensure that the motor drainage holes face downwards.

□ **Dimensions**  
Dimensions are shown above. Pole-switching and explosion proof models may vary. Note dimension B in table below.

□ **Sound levels**  
Sound power levels in dB(A) (spectrum and totals) are given above the performance curves.

R.P.M.	Air flow volume (FID)	Motor-Motor power (nominal)	Voltage	Current at full load	Max. pitch angle	Wiring diagram	Max. air flow temp.	Nominal weight (net)	Fan type				Dim. B Motor protrusion	Transformer controller for 5 speed control		
									AVD DK incl. guard	Ref. No.	AVD RK	Ref. No.		Type	Ref.No.	
min <sup>-1</sup>	∑ m <sup>3</sup> /h	kW	V	A	°	No.	+°C	ca. kg					mm			
<b>3 Phase motor, 400/690 Volt / 50 Hz, protection to IP 54</b>																
705	32650	1,50	400	4,6	27	776	40	108	AVD DK 1000/8/.. <sup>4)</sup>	5396	AVD RK 1000/8/.. <sup>4)</sup>	5571	210	—	—	
710	39000	2,20	400	5,7	35	776	40	120	AVD DK 1000/8/.. <sup>4)</sup>	5397	AVD RK 1000/8/.. <sup>4)</sup>	5572	290	—	—	
950	39720	3,00	400	6,8	23	776	40	127	AVD DK 1000/6/.. <sup>4)</sup>	5398	AVD RK 1000/6/.. <sup>4)</sup>	5573	290	—	—	
960	46320	4,00	400	8,7	29	776	40	141	AVD DK 1000/6/.. <sup>4)</sup>	5399	AVD RK 1000/6/.. <sup>4)</sup>	5574	325	—	—	
960	52450	5,50	400	12,0	35	776	40	165	AVD DK 1000/6/.. <sup>4)</sup>	5400	AVD RK 1000/6/.. <sup>4)</sup>	5575	325	—	—	
1450	61460	11,00	400	21,6	23	776	40	220	AVD DK 1000/4/.. <sup>4)</sup>	5401	AVD RK 1000/4/.. <sup>4)</sup>	5576	430	—	—	
1450	71290	15,00	400	28,4	29	776	40	255	AVD DK 1000/4/.. <sup>4)</sup>	5402	AVD RK 1000/4/.. <sup>4)</sup>	5577	430	—	—	
1460	79440	18,50	400	34,4	34	776	40	210	AVD DK 1000/4/.. <sup>4)</sup>	5403	AVD RK 1000/4/.. <sup>4)</sup>	5578	520	—	—	
<b>2 speed motor, 3 Phase, 400 V / 3 ph. / 50 Hz, Y/Δ-motor, protection to IP 55</b>																
605/695	23700/27440	0,6/1,22	400	2,2/4,3	21	520	40	102	AVD DK 1000/8/8/.. <sup>5)</sup>	5395	AVD RK 1000/8/8/.. <sup>5)</sup>	5570	180	RDS 7 <sup>6)</sup>	1578	
<b>2 speed motor, pole-switching, Dahlander-windings, 400 Volt / 3 ph. / 50 Hz, protection to IP 54</b>																
455/950	19020/39720	0,7/3,0	400	2,5/6,7	23	471	40	130	AVD DK 1000/12/6/.. <sup>1)</sup>	5404	AVD RK 1000/12/6/.. <sup>1)</sup>	5579	320	PDA 12 <sup>3)</sup>	5081	
455/950	22065/46070	0,9/4,0	400	3,1/8,8	29	471	40	140	AVD DK 1000/12/6/.. <sup>1)</sup>	5405	AVD RK 1000/12/6/.. <sup>1)</sup>	5580	355	PDA 12 <sup>3)</sup>	5081	
450/950	24715/52180	1,3/5,5	400	4,3/11,7	35	471	40	160	AVD DK 1000/12/6/.. <sup>1)</sup>	5406	AVD RK 1000/12/6/.. <sup>1)</sup>	5581	375	PDA 12 <sup>3)</sup>	5081	
715/1440	27410/55210	2,2/9,0	400	5,3/18,0	20	471	40	165	AVD DK 1000/8/4/.. <sup>1)</sup>	5407	AVD RK 1000/8/4/.. <sup>1)</sup>	5582	385	PDA 25	5060	
715/1445	32325/65330	3,0/12,0	400	6,8/23,2	26	471	40	190	AVD DK 1000/8/4/.. <sup>1)</sup>	5408	AVD RK 1000/8/4/.. <sup>1)</sup>	5583	415	—	—	
720/1450	39545/79640	5,0/18,5	400	11,0/35,0	35	471	40	225	AVD DK 1000/8/4/.. <sup>1)</sup>	5409	AVD RK 1000/8/4/.. <sup>1)</sup>	5584	450	—	—	
975/1440	36140/53380	3,0/8,2	400	7,3/16,5	19	473	40	170	AVD DK 1000/6/4/.. <sup>2)</sup>	5410	AVD RK 1000/6/4/.. <sup>2)</sup>	5585	385	PGWA 25	5061	
975/1450	45150/67150	4,4/13,0	400	10,0/25,5	27	473	40	195	AVD DK 1000/6/4/.. <sup>2)</sup>	5411	AVD RK 1000/6/4/.. <sup>2)</sup>	5586	435	—	—	
980/1470	53825/80740	6,7/20,0	400	14,5/38,5	35	473	40	230	AVD DK 1000/6/4/.. <sup>2)</sup>	5412	AVD RK 1000/6/4/.. <sup>2)</sup>	5587	470	—	—	
<b>Explosion proof E Exe II, 400/690 Volt / 3 ph. / 50 Hz, protection to IP 54, temperature class T1-T3</b>																
700	30880	1,3	400	3,9	25	470	40	110	AVD DK 1000/8 Ex/..	5413	AVD RK 1000/8 Ex/..	5588	210	not permitted		
700	38450	2,6	400	6,5	35	470	40	125	AVD DK 1000/8 Ex/..	5414	AVD RK 1000/8 Ex/..	5589	290	not permitted		
955	43180	3,5	400	7,6	26	498	40	130	AVD DK 1000/6 Ex/..	5415	AVD RK 1000/6 Ex/..	5590	325	not permitted		
960	52730	6,6	400	13,8	35	498	40	155	AVD DK 1000/6 Ex/..	5416	AVD RK 1000/6 Ex/..	5591	400	not permitted		
1480	70160	15,0	400	27,5	28	498	40	200	AVD DK 1000/4 Ex/..	5417	AVD RK 1000/4 Ex/..	5592	430	not permitted		
1470	77600	17,5	400	34,0	33	498	40	225	AVD DK 1000/4 Ex/..	5418	AVD RK 1000/4 Ex/..	5593	470	not permitted		

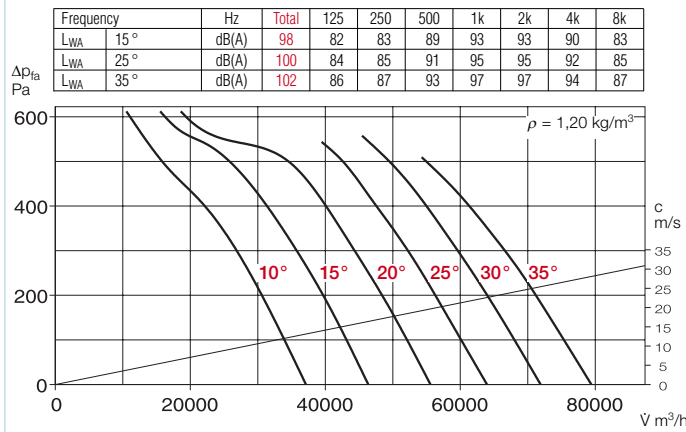
1) Dahlander winding

2) Separate windings

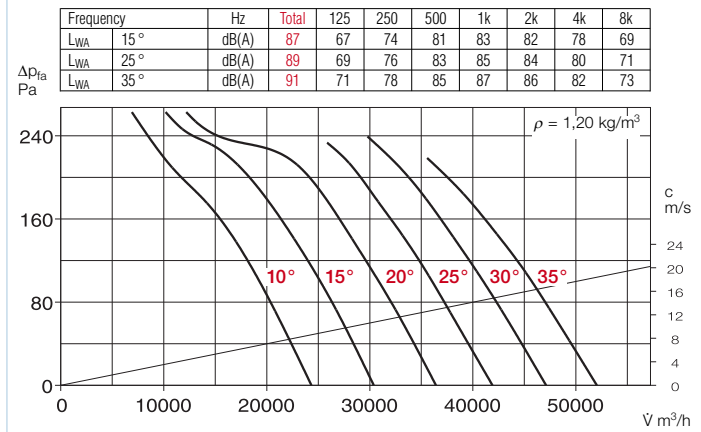
3) see product page for flush mounted version

4) and 5) full motor protection unit, see description motor protection

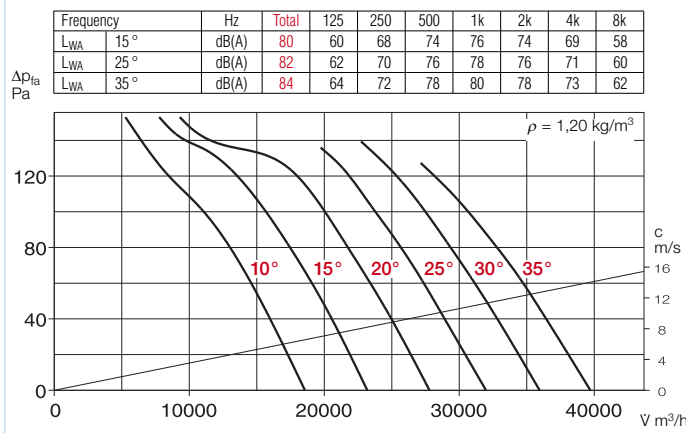
### AVD 1000/4 R.P.M. = 1450



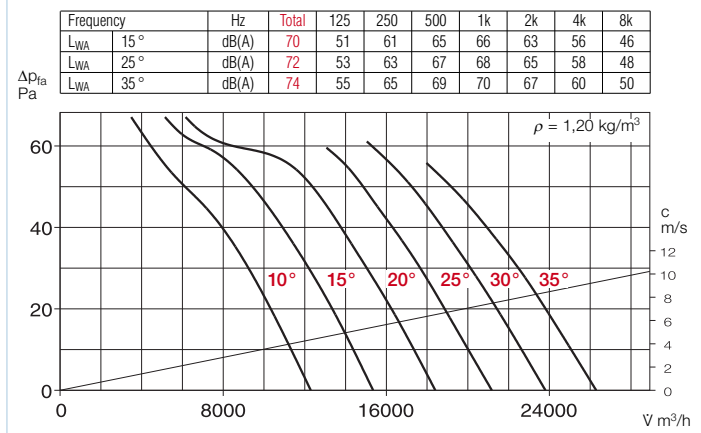
### AVD 1000/6 R.P.M. = 950



### AVD 1000/8 R.P.M. = 725

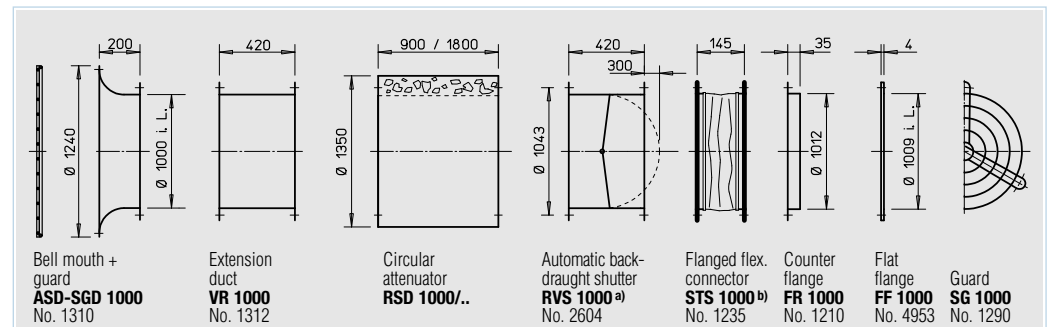


### AVD 1000/12 R.P.M. = 480

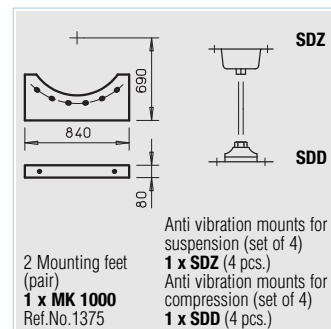


Electronic controller for stepless control, Frequency inverter		Anti vibration mounts nominal size	
Type	Ref.No.	Type	Ref.No.
<b>FU-BS 5,0<sup>6)</sup></b>	5460	<b>..2/..2</b>	1453/1455
<b>FU-BS 8,0<sup>6)</sup></b>	5461	<b>..2/..2</b>	1453/1455
<b>FU-BS 8,0<sup>6)</sup></b>	5461	<b>..2/..2</b>	1453/1455
<b>FU-BS 10<sup>6)</sup></b>	5462	<b>..2/..2</b>	1453/1455
<b>FU-BS 14<sup>6)</sup></b>	5463	<b>..2/..2</b>	1453/1455
<b>FU-CS 22<sup>6)</sup></b>	5470	<b>..3/..3</b>	1367/1366
<b>FU-CS 32<sup>6)</sup></b>	5471	<b>..3/..3</b>	1367/1366
<b>FU-CS 40<sup>6)</sup></b>	5472	<b>..3/..3</b>	1367/1366
<b>ESD 5<sup>6)</sup></b>	0501	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..3/..3</b>	1367/1366
—	—	<b>..3/..3</b>	1367/1366
—	—	<b>..2/..2</b>	1453/1455
—	—	<b>..3/..3</b>	1367/1366
—	—	<b>..3/..3</b>	1367/1366
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..2/..2</b>	1453/1455
not permitted	—	<b>..3/..3</b>	1367/1366
not permitted	—	<b>..3/..3</b>	1367/1366

### Accessories for cased axial fans – Specification see pages 146 on

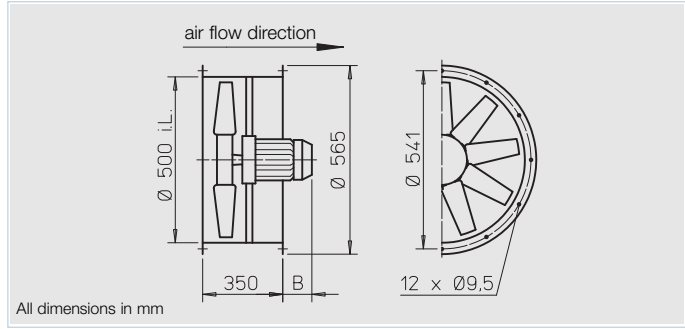


a) For motorised shutters see accessory pages    b) Models for ex-proof fans see below



Information	Pages	Other accessories	Pages
Technical description	16 on	<b>b) Accessory for explosion proof fans</b>	
Design of systems	3 on	<b>Flanged flexible connector STS 1000 Ex</b>	Ref.No. 2513
<b>Made to order designs</b>		Mounting accessories	146 on
Alternative voltages, frequencies, protection classes, acid protection, high temperatures, air flow direction, aluminium cast impeller etc. are available on request.		Attenuators	151
		Gas warning systems, circuitry and control technology	152 on
		Frequency inverter	162 on

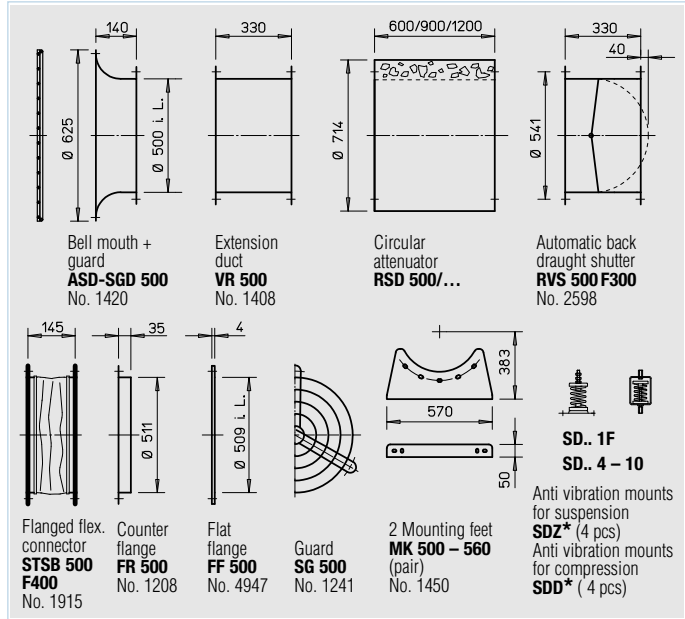
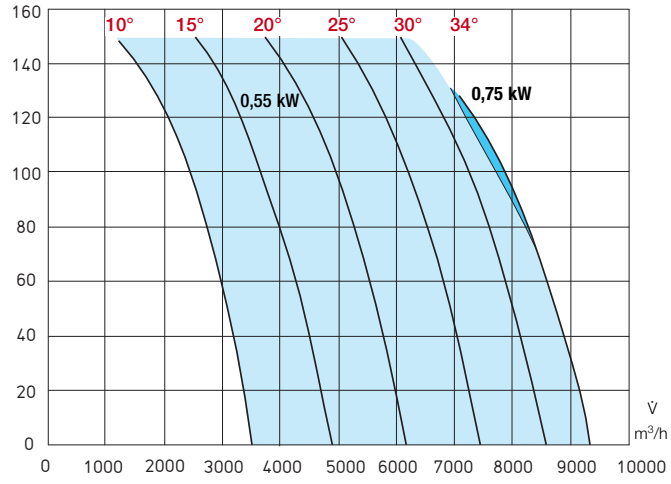
<sup>6)</sup> incl. full motor protection



**B AVD 500/4**

**R.P.M. = 1360**

Frequency	Hz	Ges.	125	250	500	1k	2k	4k	8k
$L_{min}$ 10°	dB(A)	78	58	64	73	70	70	66	62
$L_{min}$ 20°	dB(A)	80	60	66	75	72	72	68	64
$L_{min}$ 30°	dB(A)	84	64	70	79	76	76	72	68

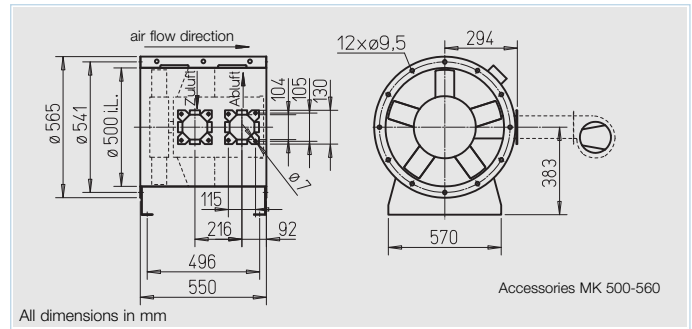


\* Type assignment see table, last column

Information	Pages
Technical description	16 on
Design of systems	3 on
Accessories details	Pages
Mounting accessories	146 on
Attenuators	151
Gas warning system, circuitry and control technology	152 on

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression Type	Suspension Type		
<b>F300 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 500/4 0,55 kW F300	2315	1410	9670	0,55	400	1,3	*	776	40 <sup>2)</sup> / 300	41	39			SDD 1F	1942	SDZ 1F	1943
B AVD 500/4 0,75 kW F300	2316	1410	9670	0,75	400	1,6	*	776	40 <sup>2)</sup> / 300	41	42			SDD 1F	1942	SDZ 1F	1943
<b>F300 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54</b>																	
B AVD 500/8/4 0,2/0,8 kW F300	2319	690/1415	4730/9700	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 300	41	43	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
<b>F400 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 500/4 0,55 kW F400	2401	1410	9670	0,55	400	1,3	*	776	40 <sup>2)</sup> / 400	41	39			SDD 1F	1942	SDZ 1F	1943
B AVD 500/4 0,75 kW F400	2402	1410	9670	0,75	400	1,6	*	776	40 <sup>2)</sup> / 400	41	42			SDD 1F	1942	SDZ 1F	1943
<b>F400 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54</b>																	
B AVD 500/8/4 0,2/0,8 kW F400	2403	690/1415	4730/9700	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 400	41	43	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943

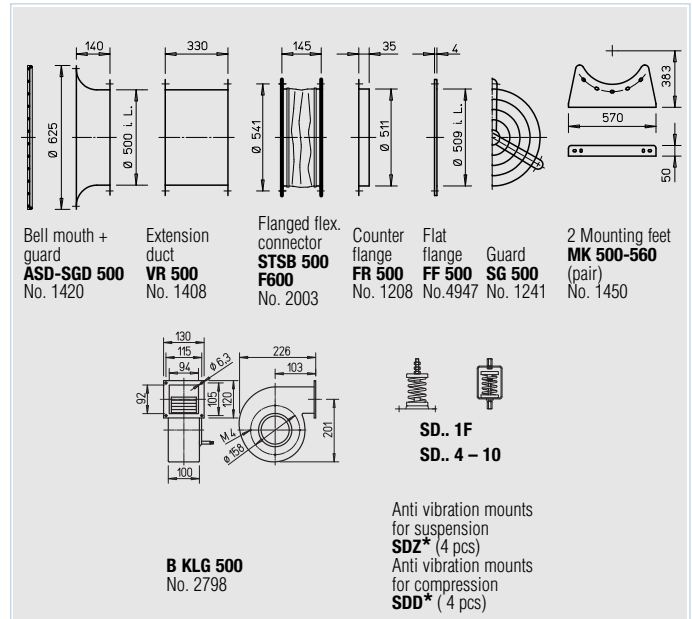
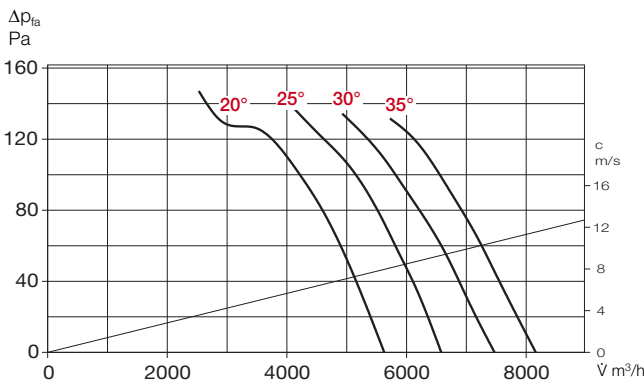
\* Pitch angle must be stated when ordering.  
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.



### B AVD 500/4

R.P.M.=1400

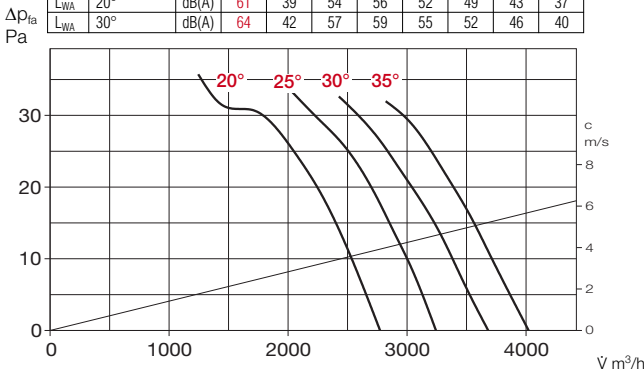
Frequency	Hz	Ges.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	78	58	64	73	70	70	66	62
L <sub>WA</sub> 20°	dB(A)	80	60	66	75	72	72	68	64
L <sub>WA</sub> 30°	dB(A)	84	64	70	79	76	76	72	68



### B AVD 500/8

R.P.M.=690

Frequency	Hz	Ges.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	58	36	51	53	49	46	40	34
L <sub>WA</sub> 20°	dB(A)	61	39	54	56	52	49	43	37
L <sub>WA</sub> 30°	dB(A)	64	42	57	59	55	52	46	40

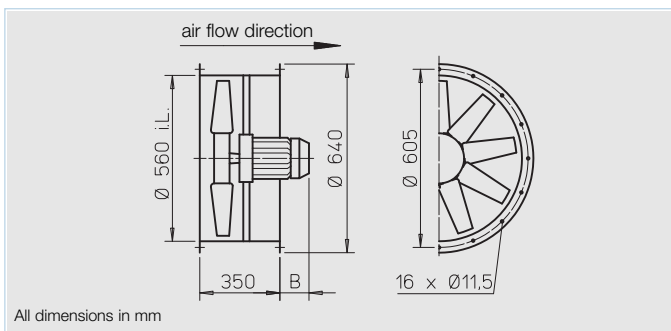


Information	Pages
Technical description	16 on
Design of systems	3 on
Accessory details	Pages
Mounting accessories	146 on
Centrifugal cooling fan	147
Attenuators	151
Gas warning systems, circuitry and control technology	152 on

\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.		
<b>F600</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 500/4-20 F600	2804	1410	5660	0,55	400	1,27	20	776	40 <sup>2)</sup> / 600	-	64	SDD 1F	1942	SDZ 1F	1943		
B AVD 500/4-25 F600	2805	1410	6630	0,55	400	1,27	25	776	40 <sup>2)</sup> / 600	-	64	SDD 1F	1942	SDZ 1F	1943		
B AVD 500/4-30 F600	2806	1410	7520	0,55	400	1,27	30	776	40 <sup>2)</sup> / 600	-	64	SDD 1F	1942	SDZ 1F	1943		
B AVD 500/4-35 F600	2807	1410	8280	0,55	400	1,27	35	776	40 <sup>2)</sup> / 600	-	64	SDD 1F	1942	SDZ 1F	1943		
<b>F600</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54																	
B AVD 500/8/4-20 F600	2808	710/1440	2850/5790	0,15/0,6	400	0,76/1,76	20	471	40 <sup>2)</sup> / 600	-	66	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 500/8/4-25 F600	2809	710/1440	3340/6770	0,15/0,6	400	0,76/1,76	25	471	40 <sup>2)</sup> / 600	-	66	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 500/8/4-30 F600	2810	710/1440	3790/7680	0,15/0,6	400	0,76/1,76	30	471	40 <sup>2)</sup> / 600	-	66	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 500/8/4-35 F600	2811	710/1440	4170/8460	0,15/0,6	400	0,76/1,76	35	471	40 <sup>2)</sup> / 600	-	66	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943

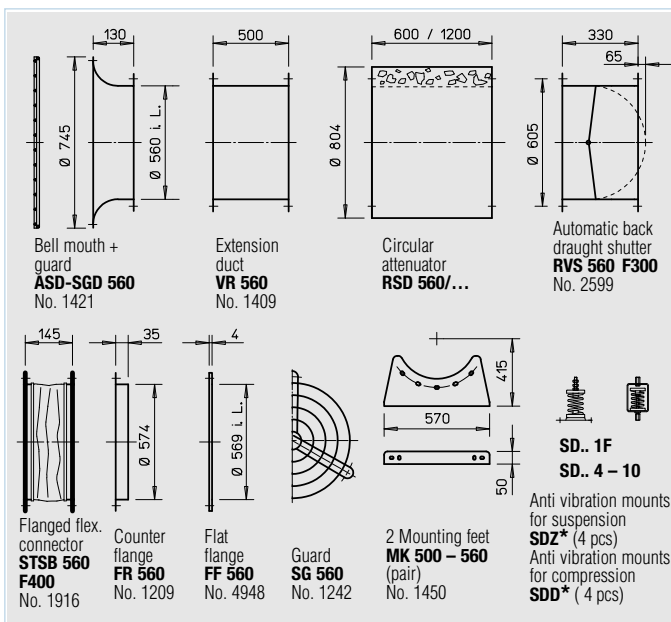
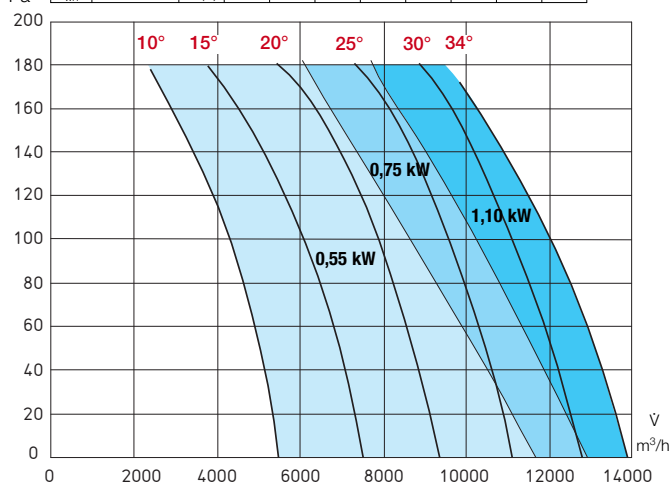
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.



**B AVD 560/4**

**R.P.M. = 1380**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	80	60	66	75	72	72	68	64
L <sub>WA</sub> 20°	dB(A)	83	63	69	78	75	75	71	67
L <sub>WA</sub> 30°	dB(A)	87	67	73	82	79	79	75	71



\* Type assignment see table, last column

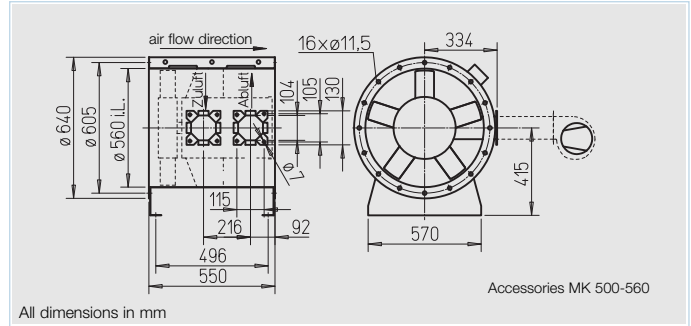
Information	Pages
Technical description	16 on
Design of systems	3 on
Accessories details	Pages
Mounting accessories	146 on
Attenuators	151
Gas warning system, circuitry and control technology	152 on

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression	Suspension		
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 560/4 0,55 kW F300	2525	1410	11890	0,55	400	1,3	*	776	40 <sup>2)</sup> / 300	41	43			SDD 1F	1942	SDZ 1F	1943
B AVD 560/4 0,75 kW F300	2324	1410	12145	0,75	400	1,6	*	776	40 <sup>2)</sup> / 300	42	46			SDD 1F	1942	SDZ 1F	1943
B AVD 560/4 1,1 kW F300	2325	1440	14510	1,1	400	2,4	*	776	40 <sup>2)</sup> / 300	51	52			SDD 1F	1942	SDZ 1F	1943
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 560/8/4 0,15/0,6 kW F300	2526	710/1440	6280/12740	0,15/0,6	400	0,8/1,8	*	471	40 <sup>2)</sup> / 300	41	48	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,2/0,8 kW F300	2327	690/1415	6770/13870	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 300	41	48	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,3/1,2 kW F300	2328	705/1430	7100/14400	0,3/1,2	400	1,3/2,9	*	471	40 <sup>2)</sup> / 300	59	53	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,4/1,6 kW F300	2329	700/1420	7050/14300	0,4/1,6	400	1,7/3,8	*	471	40 <sup>2)</sup> / 300	84	56	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 560/4 0,55 kW F400	2556	1410	11890	0,55	400	1,3	*	776	40 <sup>2)</sup> / 400	41	43			SDD 1F	1942	SDZ 1F	1943
B AVD 560/4 0,75 kW F400	2406	1410	12145	0,75	400	1,6	*	776	40 <sup>2)</sup> / 400	42	46			SDD 1F	1942	SDZ 1F	1943
B AVD 560/4 1,1 kW F400	2407	1440	14510	1,1	400	2,4	*	776	40 <sup>2)</sup> / 400	51	52			SDD 1F	1942	SDZ 1F	1943
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 560/8/4 0,15/0,6 kW F400	2557	710/1440	6280/12740	0,15/0,6	400	0,8/1,8	*	471	40 <sup>2)</sup> / 400	41	48	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,2/0,8 kW F400	2409	690/1415	6770/13870	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 400	41	48	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,3/1,2 kW F400	2410	705/1430	7100/14400	0,3/1,2	400	1,3/2,9	*	471	40 <sup>2)</sup> / 400	59	53	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4 0,4/1,6 kW F400	2411	700/1420	7050/14300	0,4/1,6	400	1,7/3,8	*	471	40 <sup>2)</sup> / 400	84	56	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>3)</sup> Flush mounted version see product page switches.

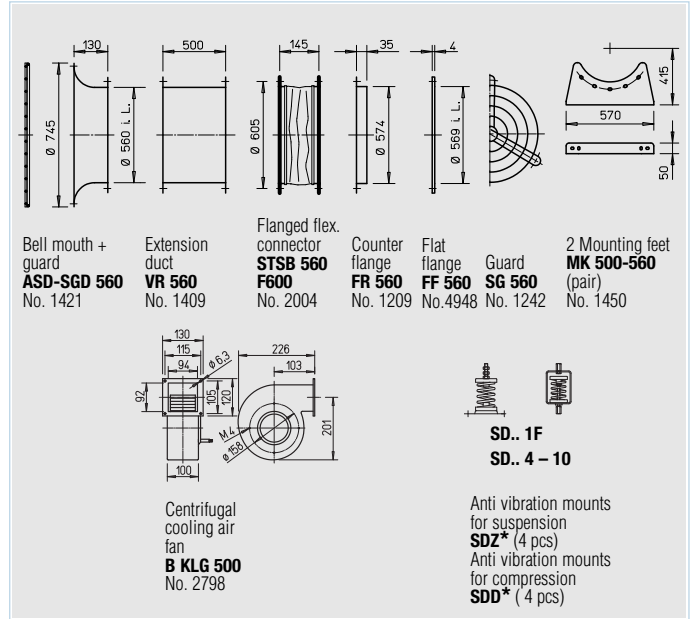
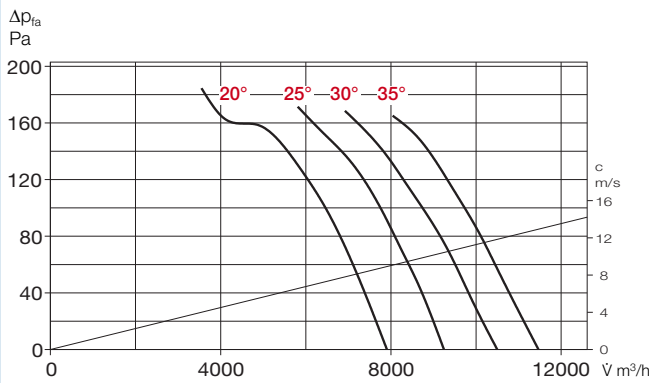
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 560/4

R.P.M. = 1400

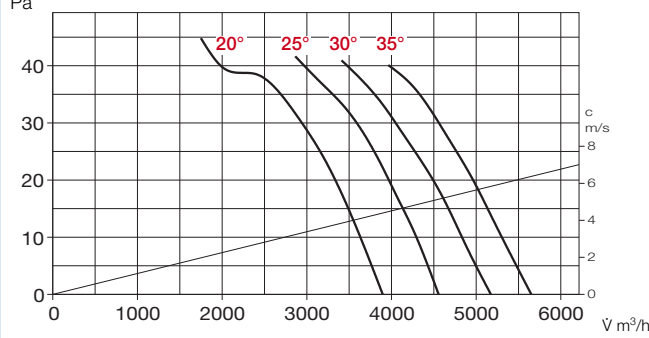
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	80	60	66	75	72	72	68	64
L <sub>WA</sub> 20°	dB(A)	83	63	69	78	75	75	71	67
L <sub>WA</sub> 30°	dB(A)	87	67	73	82	79	79	75	71



### B AVD 560/8

R.P.M. = 690

Frequency	Hz	T <sub>total</sub>	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	58	36	51	53	49	46	40	34
L <sub>WA</sub> 20°	dB(A)	61	39	54	56	52	49	43	37
L <sub>WA</sub> 30°	dB(A)	64	42	57	59	55	52	46	40



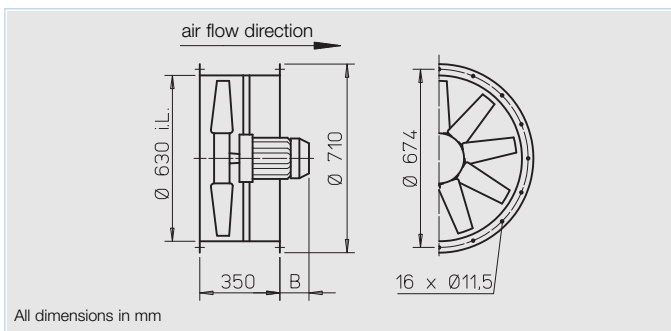
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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.		
<b>F600 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 560/4-20 F600	2819	1410	7960	0,55	400	1,27	20	776	40 <sup>2)</sup> / 600	-	71		SDD 1F	1942	SDZ 1F	1943	
B AVD 560/4-25 F600	2820	1410	9310	0,75	400	1,63	25	776	40 <sup>2)</sup> / 600	-	74		SDD 1F	1942	SDZ 1F	1943	
B AVD 560/4-30 F600	2821	1410	10570	0,75	400	1,63	30	776	40 <sup>2)</sup> / 600	-	74		SDD 1F	1942	SDZ 1F	1943	
B AVD 560/4-35 F600	2822	1440	11630	1,10	400	2,40	35	776	40 <sup>2)</sup> / 600	-	79		SDD 1F	1942	SDZ 1F	1943	
<b>F600 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54</b>																	
B AVD 560/8/4-20 F600	2823	710/1440	4010/8130	0,15/0,6	400	0,76/1,76	20	471	40 <sup>2)</sup> / 600	-	73	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4-25 F600	2824	690/1415	4560/9340	0,2/0,8	400	0,88/1,99	25	471	40 <sup>2)</sup> / 600	-	73	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4-30 F600	2825	690/1415	5170/10610	0,2/0,8	400	0,88/1,99	30	471	40 <sup>2)</sup> / 600	-	73	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 560/8/4-35 F600	2826	705/1430	5820/11800	0,3/1,2	400	1,29/2,92	35	471	40 <sup>2)</sup> / 600	-	75	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.

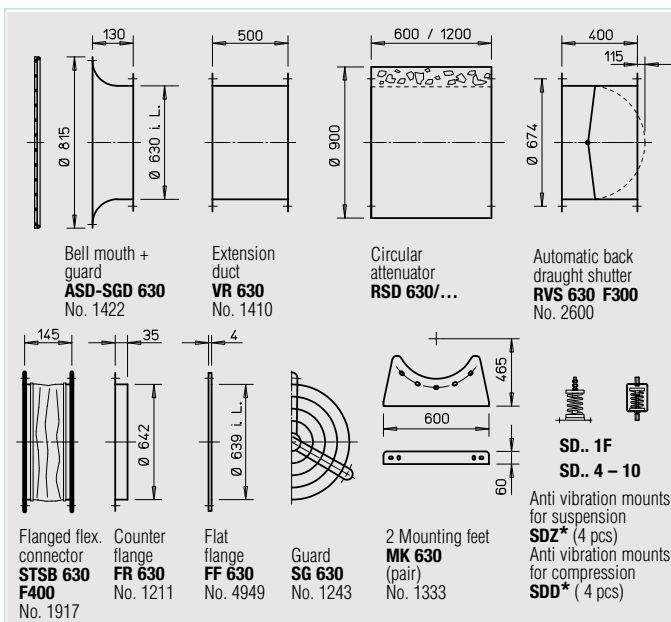
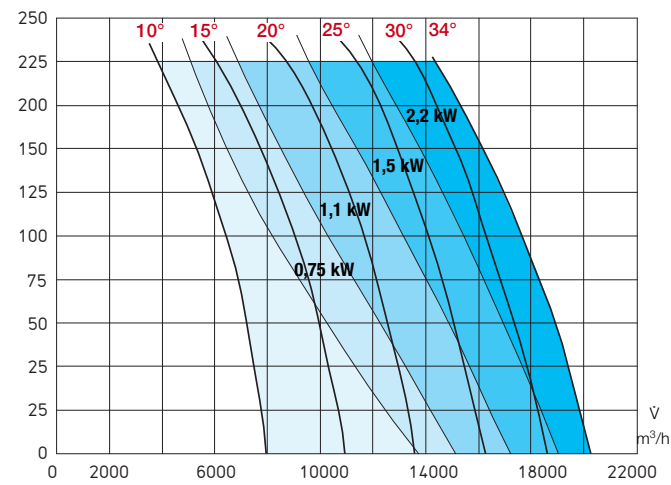




**B AVD 630/4**

**R.P.M. = 1410**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A)	83	63	69	78	75	71	67
L <sub>WA</sub> 20°		dB(A)	86	66	72	81	78	74	70
L <sub>WA</sub> 30°		dB(A)	90	70	76	85	82	78	74



\* Type assignment see table, last column

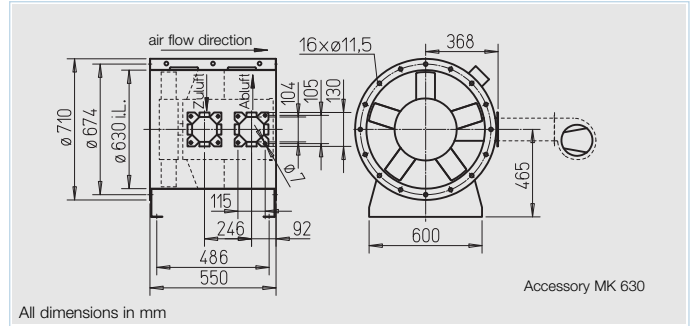
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Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression	Suspension		
													Type	Ref.No.	Type	Ref.No.	
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 630/4 0,75 kW F300	2527	1410	15160	0,75	400	1,6	*	776	40 <sup>2)</sup> / 300	41	48		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 1,1 kW F300	2335	1440	15940	1,1	400	2,4	*	776	40 <sup>2)</sup> / 300	59	54		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 1,5 kW F300	2336	1440	19430	1,5	400	3,3	*	776	40 <sup>2)</sup> / 300	84	57		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 2,2 kW F300	2337	1425	22230	2,2	400	4,6	*	776	40 <sup>2)</sup> / 300	121	66		SDD 1F	1942	SDZ 1F	1943	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 630/8/4 0,2/0,8 kW F300	2338	690/1415	7420/15220	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 300	41	49	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,3/1,2 kW F300	2339	705/1430	7800/15830	0,3/1,2	400	1,3/2,9	*	471	40 <sup>2)</sup> / 300	59	55	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,4/1,6 kW F300	2528	700/1420	9520/19315	0,4/1,6	400	1,7/3,8	*	471	40 <sup>2)</sup> / 300	84	58	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,55/2,2 kW F300	2340	700/1430	10040/20220	0,55/2,2	400	2,0/4,8	*	471	40 <sup>2)</sup> / 300	121	65	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 630/4 0,75 kW F400	2558	1410	15160	0,75	400	1,6	*	776	40 <sup>2)</sup> / 400	41	48		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 1,1 kW F400	2417	1440	15940	1,1	400	2,4	*	776	40 <sup>2)</sup> / 400	59	54		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 1,5 kW F400	2418	1440	19430	1,5	400	3,3	*	776	40 <sup>2)</sup> / 400	84	57		SDD 1F	1942	SDZ 1F	1943	
B AVD 630/4 2,2 kW F400	2419	1425	22230	2,2	400	4,6	*	776	40 <sup>2)</sup> / 400	121	66		SDD 1F	1942	SDZ 1F	1943	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 630/8/4 0,2/0,8 kW F400	2420	690/1415	7420/15220	0,2/0,8	400	0,9/2,0	*	471	40 <sup>2)</sup> / 400	41	49	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,3/1,2 kW F400	2421	705/1430	7800/15830	0,3/1,2	400	1,3/2,9	*	471	40 <sup>2)</sup> / 400	59	55	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,4/1,6 kW F400	2559	700/1420	9520/19315	0,4/1,6	400	1,7/3,8	*	471	40 <sup>2)</sup> / 400	84	58	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 630/8/4 0,55/2,2 kW F400	2422	700/1430	10040/20220	0,55/2,2	400	2,0/4,8	*	471	40 <sup>2)</sup> / 400	121	65	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>3)</sup> Flush mounted version see product page switches.

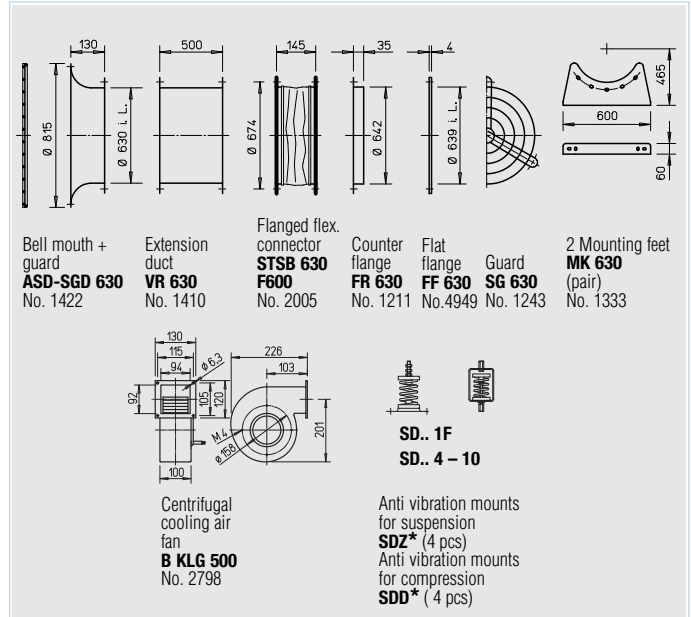
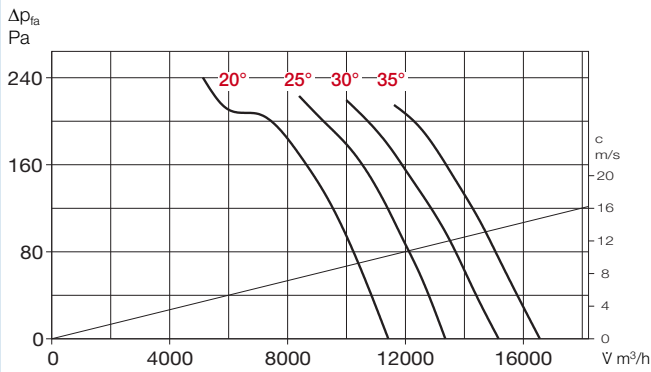
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 630/4

R.P.M. = 1420

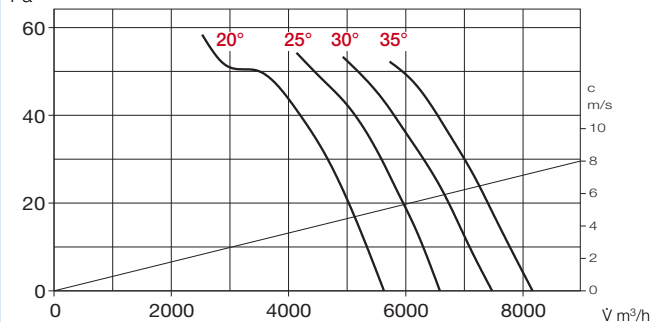
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 83	63	69	78	75	75	71	67
L <sub>WA</sub> 20°		dB(A) 86	66	72	81	78	78	74	70
L <sub>WA</sub> 30°		dB(A) 90	70	76	85	82	82	78	74



### B AVD 630/8

R.P.M. = 700

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 83	63	69	78	75	75	71	67
L <sub>WA</sub> 20°		dB(A) 86	66	72	81	78	78	74	70
L <sub>WA</sub> 30°		dB(A) 90	70	76	85	82	82	78	74

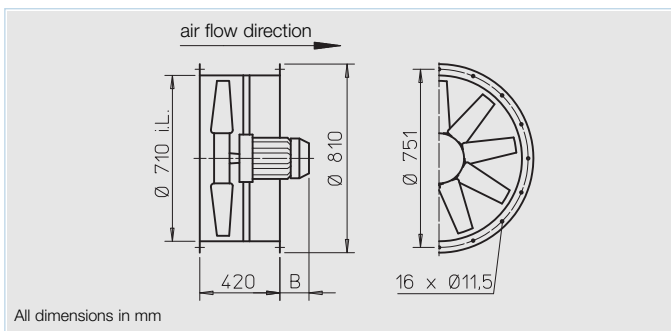


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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 630/4-20 F600	2834	1440	11580	1,10	400	2,40	20	776	40 <sup>2)</sup> / 600	-	86		SDD 4	1944	SDZ 4	1945	
B AVD 630/4-25 F600	2835	1440	13540	1,10	400	2,40	25	776	40 <sup>2)</sup> / 600	-	86		SDD 4	1944	SDZ 4	1945	
B AVD 630/4-30 F600	2836	1440	15370	1,50	400	3,26	30	776	40 <sup>2)</sup> / 600	-	89		SDD 4	1944	SDZ 4	1945	
B AVD 630/4-35 F600	2837	1425	16740	2,20	400	4,64	35	776	40 <sup>2)</sup> / 600	-	98		SDD 4	1944	SDZ 4	1945	
<b>F600 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54</b>																	
B AVD 630/8/4-20 F600	2838	705/1430	5670/11500	0,3/1,2	400	1,29/2,92	20	471	40 <sup>2)</sup> / 600	-	82	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 630/8/4-25 F600	2839	705/1430	6630/13450	0,3/1,2	400	1,29/2,92	25	471	40 <sup>2)</sup> / 600	-	82	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 630/8/4-30 F600	2840	700/1420	7470/15160	0,4/1,6	400	1,69/3,80	30	471	40 <sup>2)</sup> / 600	-	86	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 630/8/4-35 F600	2841	700/1430	8220/16800	0,55/2,2	400	2,00/4,84	35	471	40 <sup>2)</sup> / 600	-	92	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945

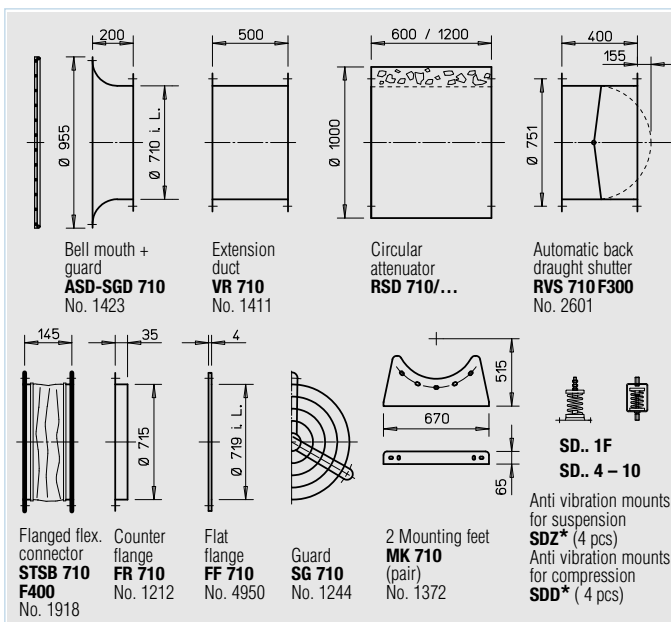
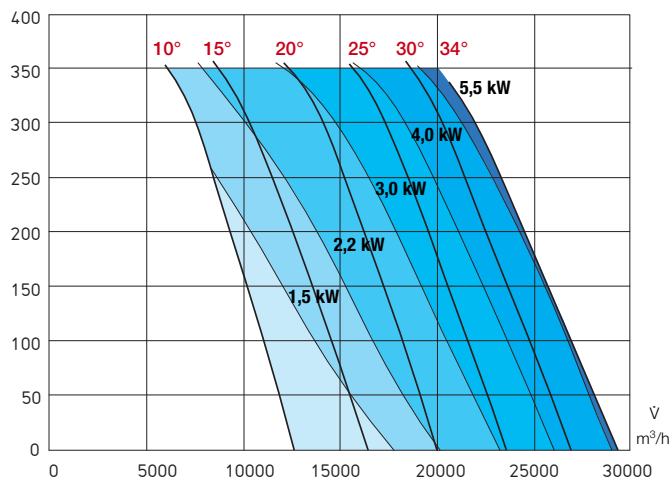
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.



**B AVD 710/4**

**R.P.M. = 1430**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub>	10°	dB(A)	95	76	87	89	87	86	78	70
L <sub>WA</sub>	20°	dB(A)	97	78	89	91	89	88	80	72
L <sub>WA</sub>	30°	dB(A)	99	80	91	93	91	90	82	74



\* Type assignment see table, last column

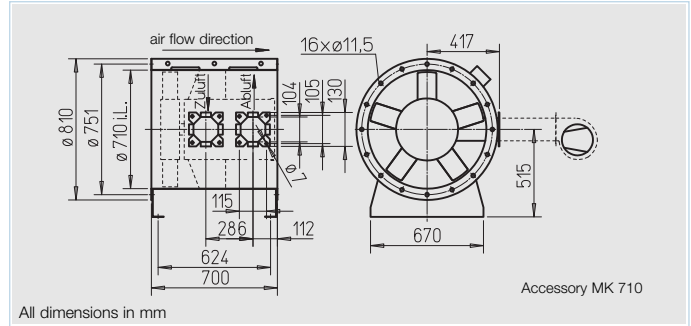
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Gas warning system, circuitry and control technology	152 on

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression Type	Suspension Type	Ref.No.	Ref.No.
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 710/4 1,5 kW F300	2529	1440	19930	1,5	400	3,3	*	776	40 <sup>2)</sup> / 300	49	72		SDD 1F	1942	SDZ 1F	1943	
B AVD 710/4 2,2 kW F300	2343	1425	22870	2,2	400	4,6	*	776	40 <sup>2)</sup> / 300	86	80		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 3,0 kW F300	2344	1420	25670	3,0	400	6,2	*	776	40 <sup>2)</sup> / 300	86	83		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 4,0 kW F300	2345	1440	29190	4,0	400	8,1	*	776	40 <sup>2)</sup> / 300	103	92		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 5,5 kW F300	2346	1460	29700	5,5	400	10,5	*	776	40 <sup>2)</sup> / 300	142	117		SDD 4	1944	SDZ 4	1945	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 710/8/4 0,55/2,2 kW F300	2547	700/1430	9825/19930	0,55/2,2	400	2,0/4,8	*	471	40 <sup>2)</sup> / 300	86	80	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 710/8/4 0,7/2,8 kW F300	2347	690/1410	12130/24875	0,7/2,8	400	2,4/6,0	*	471	40 <sup>2)</sup> / 300	86	83	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4 1,0/3,8 kW F300	2348	710/1440	14090/28080	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 300	103	93	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4 1,3/5,0 kW F300	2349	730/1440	14900/29390	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 300	142	122	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 710/4 1,5 kW F400	2569	1440	19930	1,5	400	3,3	*	776	40 <sup>2)</sup> / 400	49	72		SDD 1F	1942	SDZ 1F	1943	
B AVD 710/4 2,2 kW F400	2426	1425	22870	2,2	400	4,6	*	776	40 <sup>2)</sup> / 400	86	80		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 3,0 kW F400	2427	1420	25670	3,0	400	6,2	*	776	40 <sup>2)</sup> / 400	86	83		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 4,0 kW F400	2428	1440	29190	4,0	400	8,1	*	776	40 <sup>2)</sup> / 400	103	92		SDD 4	1944	SDZ 4	1945	
B AVD 710/4 5,5 kW F400	2429	1460	29700	5,5	400	10,5	*	776	40 <sup>2)</sup> / 400	142	117		SDD 4	1944	SDZ 4	1945	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 710/8/4 0,55/2,2 kW F400	2572	700/1430	9825/19930	0,55/2,2	400	2,0/4,8	*	471	40 <sup>2)</sup> / 400	86	80	PDA 12 <sup>3)</sup>	5081	SDD 1F	1942	SDZ 1F	1943
B AVD 710/8/4 0,7/2,8 kW F400	2430	670/1410	12130/24875	0,7/2,8	400	2,4/6,0	*	471	40 <sup>2)</sup> / 400	86	83	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4 1,0/3,8 kW F400	2431	710/1440	14090/28080	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 400	103	93	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4 1,3/5,0 kW F400	2432	730/1440	14900/29390	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 400	142	122	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>3)</sup> Flush mounted version see product page switches.

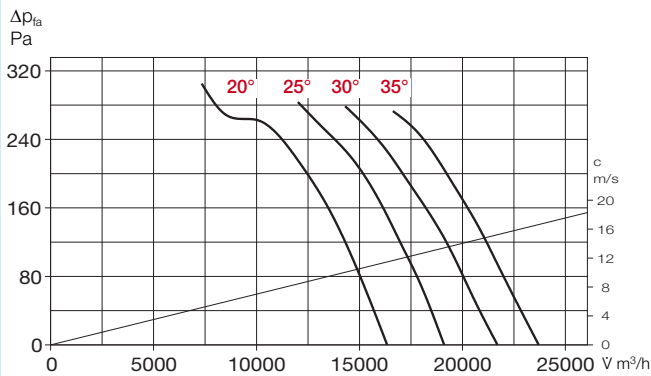
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 710/4

R.P.M. = 1420

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	95	76	87	89	87	86	78	70
L <sub>WA</sub> 20°	dB(A)	97	78	89	91	89	88	80	72
L <sub>WA</sub> 30°	dB(A)	99	80	91	93	91	90	82	74

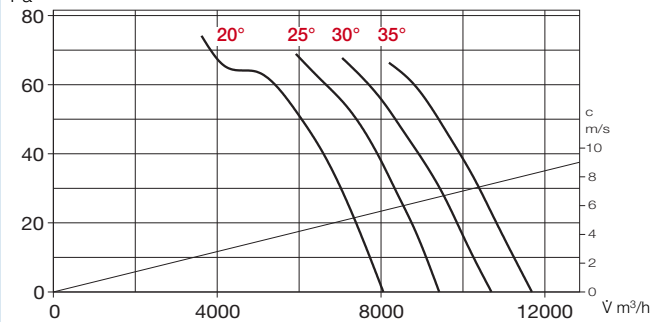


- Bell mouth + guard **ASD-SGD 710** No. 1423
- Extension duct **VR 710** No. 1411
- Flanged flex. connector **STSB 710 F600** No. 2006
- Counter flange **FR 710** No. 1212
- Flat flange **FF 710** No. 4950
- Guard **SG 710** No. 1244
- 2 Mounting feet **MK 710** (pair) No. 1373
- Centrifugal cooling air fan **B KLG 500** No. 2798
- SD.. 1F
- SD.. 4 - 10
- Anti vibration mounts for suspension **SDZ\*** (4 pcs)
- Anti vibration mounts for compression **SDD\*** (4 pcs)

### B AVD 710/8

R.P.M. = 700

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	75	57	64	69	69	65	63	61
L <sub>WA</sub> 20°	dB(A)	77	59	66	71	71	67	65	63
L <sub>WA</sub> 30°	dB(A)	78	60	67	72	72	68	66	64

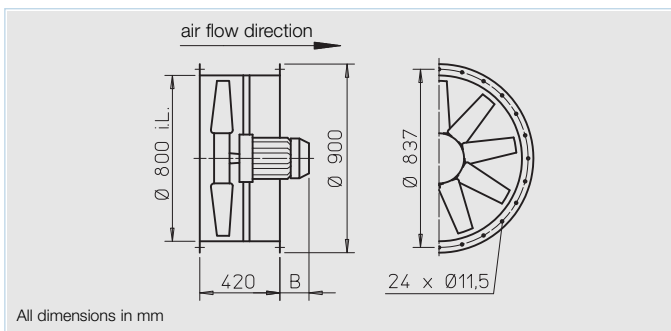


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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 710/4-20 F600	2845	1425	16400	2,20	400	4,64	20	776	40 <sup>2)</sup> / 600	-	130		SDD 4	1944	SDZ 4	1945	
B AVD 710/4-25 F600	2846	1425	19180	2,20	400	4,64	25	776	40 <sup>2)</sup> / 600	-	130		SDD 4	1944	SDZ 4	1945	
B AVD 710/4-30 F600	2847	1420	21700	3,00	400	6,17	30	776	40 <sup>2)</sup> / 600	-	133		SDD 4	1944	SDZ 4	1945	
B AVD 710/4-35 F600	2848	1440	24220	4,00	400	8,12	35	776	40 <sup>2)</sup> / 600	-	141		SDD 5	1924	SDZ 5	1925	
<b>F600 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54</b>																	
B AVD 710/8/4-20 F600	2849	700/1430	8060/16460	0,55/2,2	400	2,00/4,84	20	471	40 <sup>2)</sup> / 600	-	124	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4-25 F600	2850	700/1430	9420/19250	0,55/2,2	400	2,00/4,84	25	471	40 <sup>2)</sup> / 600	-	124	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4-30 F600	2851	690/1410	10540/21550	0,70/2,8	400	2,41/6,01	30	471	40 <sup>2)</sup> / 600	-	127	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 710/8/4-35 F600	2852	710/1440	11940/24220	1,00/3,8	400	2,75/8,26	35	471	40 <sup>2)</sup> / 600	-	137	PDA 12 <sup>3)</sup>	5081	SDD 5	1924	SDZ 5	1925

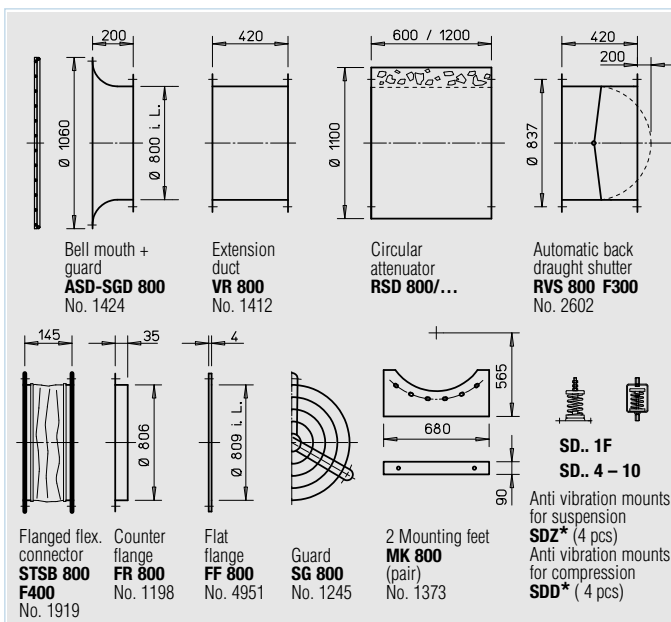
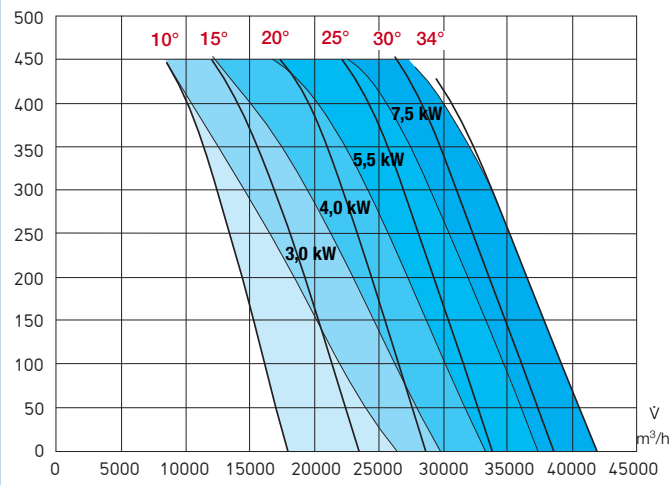
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.



B AVD 800/4

R.P.M. = 1430

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 98	79	90	92	90	89	81	73
L <sub>WA</sub> 20°		dB(A) 100	81	92	94	92	91	83	75
L <sub>WA</sub> 30°		dB(A) 102	83	94	96	94	93	85	77



\* Type assignment see table, last column

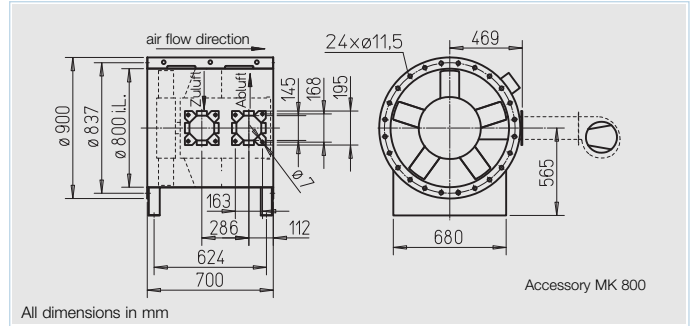
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Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression	Suspension		
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 800/4 3,0 kW F300	2352	1420	29890	3,0	400	6,1	*	776	40 <sup>2)</sup> / 300	86	89		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 4,0 kW F300	2353	1440	32790	4,0	400	8,1	*	776	40 <sup>2)</sup> / 300	103	98		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 5,5 kW F300	2354	1460	36860	5,5	400	10,5	*	776	40 <sup>2)</sup> / 300	142	123		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 7,5 kW F300	2355	1455	42250	7,5	400	14,1	*	776	40 <sup>2)</sup> / 300	180	132		SDD 5	1924	SDZ 5	1925	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 800/8/4 0,7/2,8 kW F300	2356	690/1410	13790/28180	0,7/2,8	400	2,4/6,0	*	471	40 <sup>2)</sup> / 300	86	89	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,0/3,8 kW F300	2357	710/1440	15850/32150	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 300	103	103	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,3/5,0 kW F300	2358	730/1440	18630/36740	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 300	142	128	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,8/7,2 kW F300	2359	725/1430	21280/41960	1,8/7,2	400	4,6/14,4	*	471	40 <sup>2)</sup> / 300	180	140	PDA 25	5060	SDD 5	1924	SDZ 5	1925
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 800/4 3,0 kW F400	2436	1420	29890	3,0	400	6,1	*	776	40 <sup>2)</sup> / 400	86	89		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 4,0 kW F400	2437	1440	32790	4,0	400	8,1	*	776	40 <sup>2)</sup> / 400	103	98		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 5,5 kW F400	2438	1460	36860	5,5	400	10,5	*	776	40 <sup>2)</sup> / 400	142	123		SDD 4	1944	SDZ 4	1945	
B AVD 800/4 7,5 kW F400	2439	1455	42250	7,5	400	14,1	*	776	40 <sup>2)</sup> / 400	180	132		SDD 5	1924	SDZ 5	1925	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 800/8/4 0,7/2,8 kW F400	2440	690/1410	13790/28180	0,7/2,8	400	2,4/6,0	*	471	40 <sup>2)</sup> / 400	86	89	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,0/3,8 kW F400	2441	710/1440	15850/32150	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 400	103	103	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,3/5,0 kW F400	2442	730/1440	18630/36740	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 400	142	128	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945
B AVD 800/8/4 1,8/7,2 kW F400	2443	725/1430	21280/41960	1,8/7,2	400	4,6/14,4	*	471	40 <sup>2)</sup> / 400	180	140	PDA 25	5060	SDD 5	1924	SDZ 5	1925

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>3)</sup> Flush mounted version see product page switches.

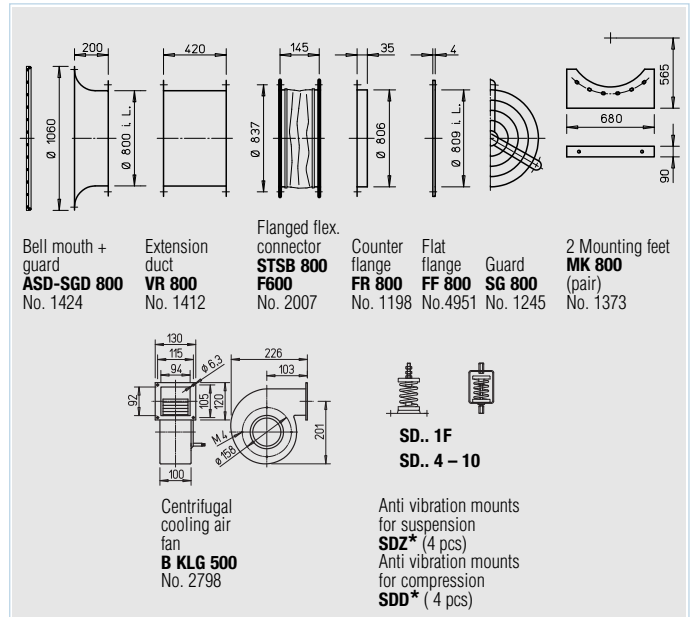
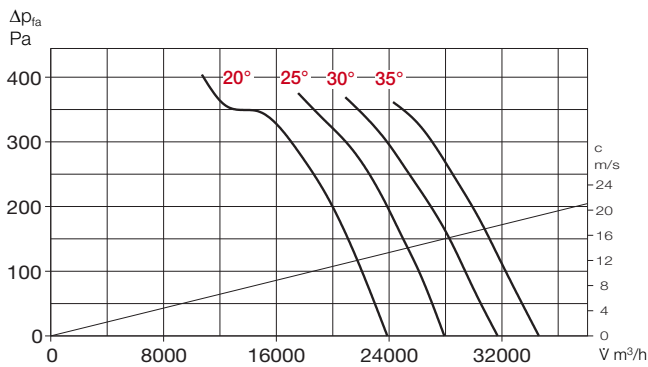
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 800/4

R.P.M. = 1450

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	98	79	90	92	90	89	81	73
L <sub>WA</sub> 20°	dB(A)	100	81	92	94	92	91	83	75
L <sub>WA</sub> 30°	dB(A)	102	83	94	96	94	93	85	77

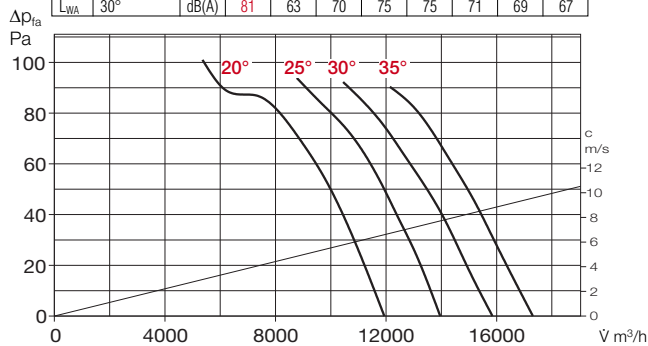


\* Type assignment see table, last column

### B AVD 800/8

R.P.M. = 725

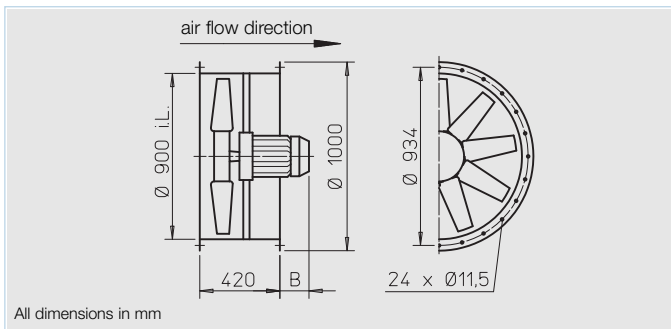
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	78	60	67	72	72	68	66	64
L <sub>WA</sub> 20°	dB(A)	80	62	69	74	74	70	68	66
L <sub>WA</sub> 30°	dB(A)	81	63	70	75	75	71	69	67



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Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 800/4-20 F600	2855	1420	23380	3,00	400	6,17	20	776	40 <sup>2)</sup> / 600	-	151		SDD 5	1924	SDZ 5	1925	
B AVD 800/4-25 F600	2856	1440	27720	4,00	400	8,12	25	776	40 <sup>2)</sup> / 600	-	160		SDD 5	1924	SDZ 5	1925	
B AVD 800/4-30 F600	2857	1460	31920	5,50	400	6,09	30	776	40 <sup>2)</sup> / 600	-	181		SDD 5	1924	SDZ 5	1925	
B AVD 800/4-35 F600	2858	1455	35010	7,50	400	8,17	35	776	40 <sup>2)</sup> / 600	-	190		SDD 5	1924	SDZ 5	1925	
<b>F600</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54																	
B AVD 800/8/4-20 F600	2859	690/1410	11360/23210	0,7/2,8	400	2,41/6,01	20	471	40 <sup>2)</sup> / 600	-	145	PDA 12 <sup>1)</sup>	5081	SDD 5	1924	SDZ 5	1925
B AVD 800/8/4-25 F600	2860	710/1440	13670/27720	1,0/3,8	400	2,75/8,26	25	471	40 <sup>2)</sup> / 600	-	156	PDA 12 <sup>1)</sup>	5081	SDD 5	1924	SDZ 5	1925
B AVD 800/8/4-30 F600	2861	730/1440	15960/31400	1,3/5,0	400	3,50/10,4	30	471	40 <sup>2)</sup> / 600	-	187	PDA 12 <sup>1)</sup>	5081	SDD 5	1924	SDZ 5	1925
B AVD 800/8/4-35 F600	2862	725/1430	17440/34400	1,8/7,2	400	4,64/14,4	35	471	40 <sup>2)</sup> / 600	-	198	PDA 25	5060	SDD 5	1924	SDZ 5	1925

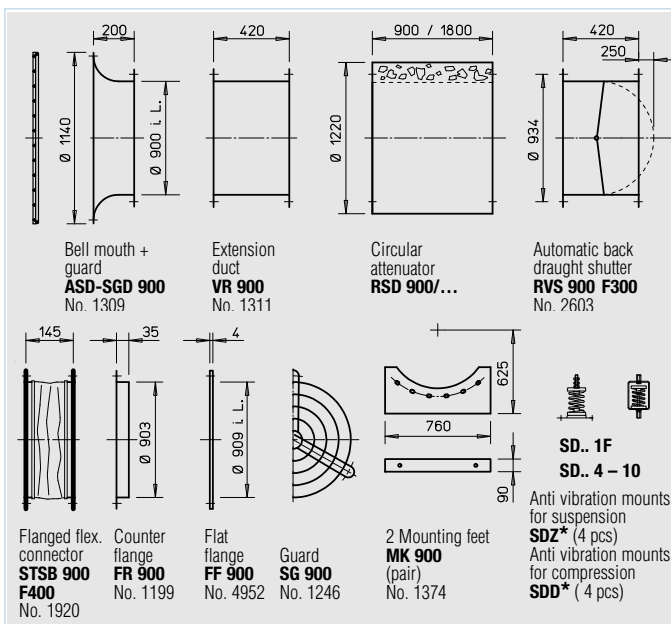
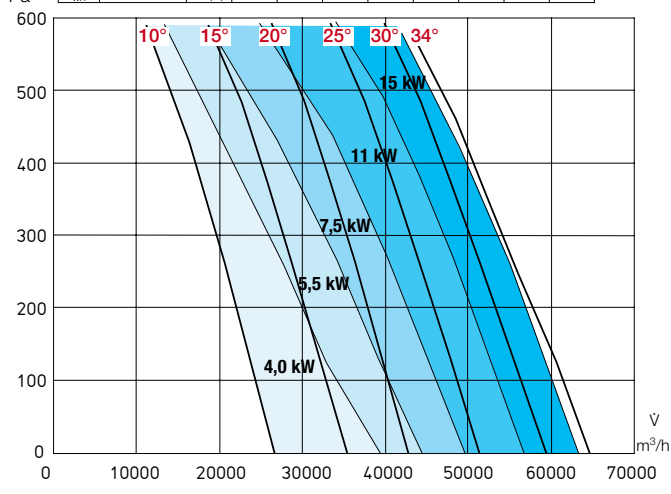
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.



B AVD 900/4

R.P.M. = 1470

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 98	70	84	90	94	92	84	76
L <sub>WA</sub> 20°		dB(A) 100	72	86	92	96	94	86	78
L <sub>WA</sub> 30°		dB(A) 104	76	90	96	100	98	90	82



\* Type assignment see table, last column

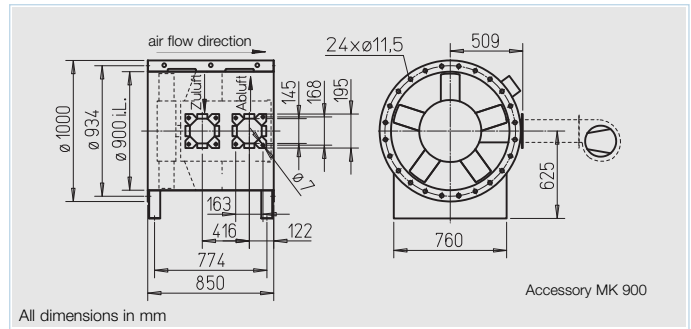
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Type	Ref.No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted	Anti vibration mounts (nominal size)						
													Compression		Suspension				
		min <sup>-1</sup>	V m³/h	kW	V	A	°	No.	+°C	mm	kg	Type	Ref.No.	Type	Ref.No.	Type	Ref.No.		
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																			
B AVD 900/4 4,0 kW F300	2548	1440	38455	4	400	8,1	*	776	40 <sup>2)</sup> / 300	228	124		SDD 4	1944	SDZ 4	1945			
B AVD 900/4 5,5 kW F300	2362	1460	44160	5,5	400	10,5	*	776	40 <sup>2)</sup> / 300	267	145		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 7,5 kW F300	2363	1455	48690	7,5	400	14,1	*	776	40 <sup>2)</sup> / 300	305	154		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 11 kW F300	2364	1470	56760	11,0	400	21,2	*	776	40 <sup>2)</sup> / 300	383	194		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 15 kW F300	2365	1465	63165	15,0	400	28,4	*	776	40 <sup>2)</sup> / 300	427	214		SDD 6	1926	SDZ 6	1927			
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																			
B AVD 900/8/4 1,0/3,8 kW F300	2549	710/1440	18500/37530	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 300	228	125	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945		
B AVD 900/8/4 1,3/5,0 kW F300	2366	730/1440	21370/42160	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 300	267	150	PDA 12 <sup>3)</sup>	5081	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 1,8/7,2 kW F300	2367	725/1430	24030/47390	1,8/7,2	400	4,6/14,4	*	471	40 <sup>2)</sup> / 300	305	169	PDA 25	5060	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 3,0/11 kW F300	2368	725/1455	27990/56180	3,0/11,0	400	7,0/21,0	*	471	40 <sup>2)</sup> / 300	383	208	PDA 25	5060	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 4,3/17 kW F300	2369	730/1475	31940/64540	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 300	449	251	PDA 25	5060	SDD 6	1926	SDZ 6	1927		
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																			
B AVD 900/4 4,0 kW F400	2573	1440	38455	4	400	8,1	*	776	40 <sup>2)</sup> / 400	228	124		SDD 4	1944	SDZ 4	1945			
B AVD 900/4 5,5 kW F400	2447	1460	44160	5,5	400	10,5	*	776	40 <sup>2)</sup> / 400	267	145		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 7,5 kW F400	2448	1455	48690	7,5	400	14,1	*	776	40 <sup>2)</sup> / 400	305	154		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 11 kW F400	2449	1470	56760	11,0	400	21,2	*	776	40 <sup>2)</sup> / 400	383	194		SDD 5	1924	SDZ 5	1925			
B AVD 900/4 15 kW F400	2450	1465	63165	15,0	400	28,4	*	776	40 <sup>2)</sup> / 400	427	214		SDD 6	1926	SDZ 6	1927			
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																			
B AVD 900/8/4 1,0/3,8 kW F400	2574	710/1440	18500/37530	1,0/3,8	400	2,8/8,3	*	471	40 <sup>2)</sup> / 400	228	125	PDA 12 <sup>3)</sup>	5081	SDD 4	1944	SDZ 4	1945		
B AVD 900/8/4 1,3/5,0 kW F400	2452	730/1440	21370/42160	1,3/5,0	400	3,5/10,4	*	471	40 <sup>2)</sup> / 400	267	150	PDA 12 <sup>3)</sup>	5081	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 1,8/7,2 kW F400	2453	725/1430	24030/47390	1,8/7,2	400	4,6/14,4	*	471	40 <sup>2)</sup> / 400	305	169	PDA 25	5060	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 3,0/11 kW F400	2454	725/1455	27990/56180	3,0/11,0	400	7,0/21,0	*	471	40 <sup>2)</sup> / 400	383	208	PDA 25	5060	SDD 5	1924	SDZ 5	1925		
B AVD 900/8/4 4,3/17 kW F400	2455	730/1475	31940/64540	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 400	449	251	PDA 25	5060	SDD 6	1926	SDZ 6	1927		

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C). <sup>3)</sup> Flush mounted version see product page switches.

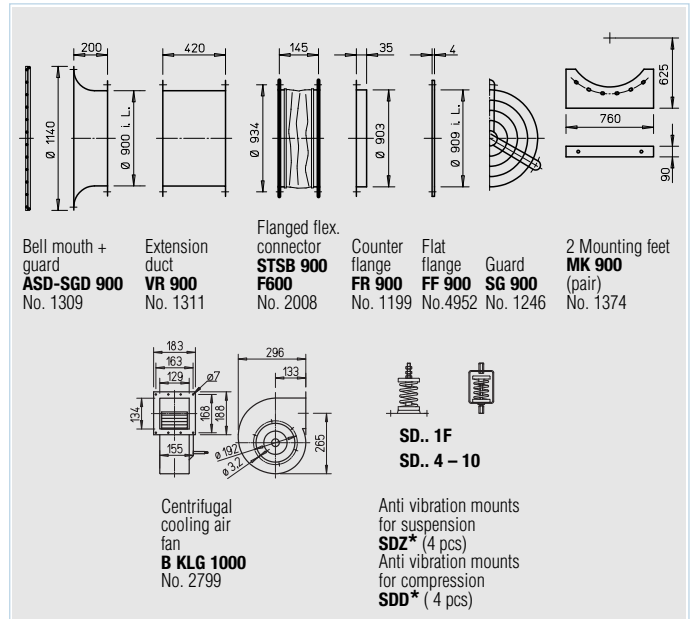
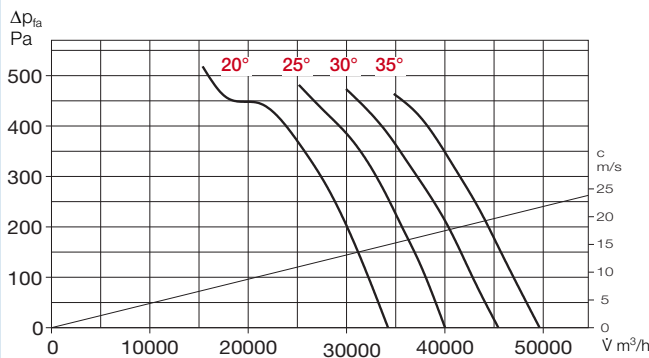
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 900/4

R.P.M. = 1460

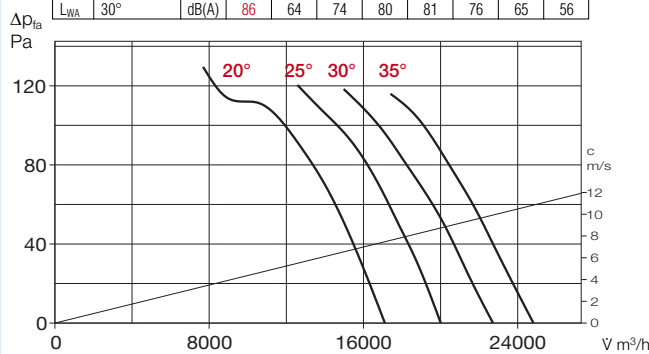
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	98	70	84	90	94	92	84	76
L <sub>WA</sub> 20°	dB(A)	100	72	86	92	96	94	86	78
L <sub>WA</sub> 30°	dB(A)	104	76	90	96	100	98	90	82



### B AVD 900/8

R.P.M. = 730

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	80	58	68	74	75	70	59	50
L <sub>WA</sub> 20°	dB(A)	82	60	70	76	77	72	61	52
L <sub>WA</sub> 30°	dB(A)	86	64	74	80	81	76	65	56



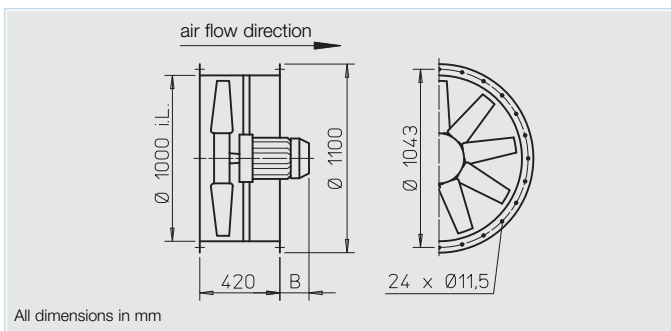
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Centrifugal cooling fan	147
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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.		
<b>F600 3 Phase motor, 50 Hz, protection to IP 54</b>																	
B AVD 900/4-20 F600	2865	1460	34220	5,50	400	10,50	20	776	40 <sup>2)</sup> / 600	-	210		SDD 5	1924	SDZ 5	1925	
B AVD 900/4-25 F600	2866	1455	39880	7,50	400	14,10	25	776	40 <sup>2)</sup> / 600	-	219		SDD 6	1926	SDZ 6	1927	
B AVD 900/4-30 F600	2867	1470	45750	11,0	400	21,20	30	776	40 <sup>2)</sup> / 600	-	252		SDD 6	1926	SDZ 6	1927	
B AVD 900/4-35 F600	2868	1465	50180	15,0	400	28,70	35	776	40 <sup>2)</sup> / 600	-	272		SDD 6	1926	SDZ 6	1927	
<b>F600 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54</b>																	
B AVD 900/8/4-20 F600	2869	730/1440	17110/33760	1,3/5,0	400	3,50/10,4	20	471	40 <sup>2)</sup> / 600	-	216	PDA 12 <sup>3)</sup>	5081	SDD 6	1926	SDZ 6	1927
B AVD 900/8/4-25 F600	2870	725/1430	19870/39200	1,8/7,2	400	6,64/14,4	25	471	40 <sup>2)</sup> / 600	-	227	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 900/8/4-30 F600	2871	725/1455	22570/45290	3,0/11,0	400	7,00/21,0	30	471	40 <sup>2)</sup> / 600	-	266	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 900/8/4-35 F600	2872	730/1475	25010/50530	4,3/17,0	400	12,7/33,4	35	471	40 <sup>2)</sup> / 600	-	309	PDA 25	5060	SDD 6	1926	SDZ 6	1927

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request. <sup>3)</sup> Flush mounted version see product page switches.

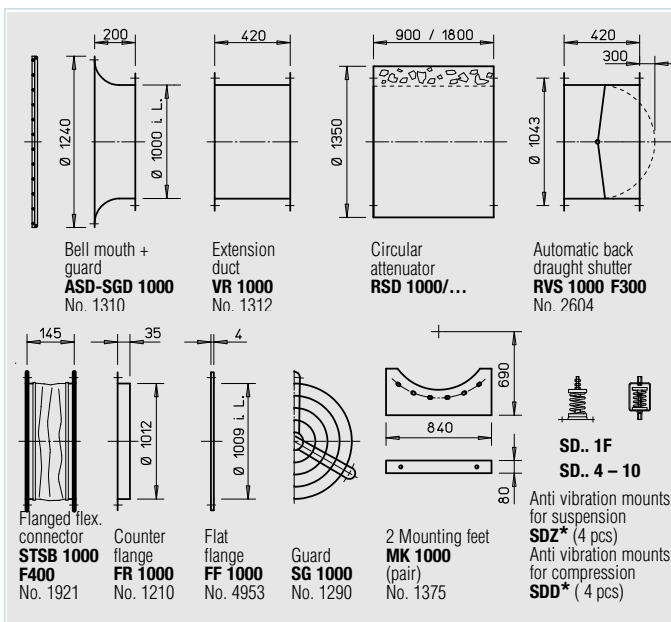
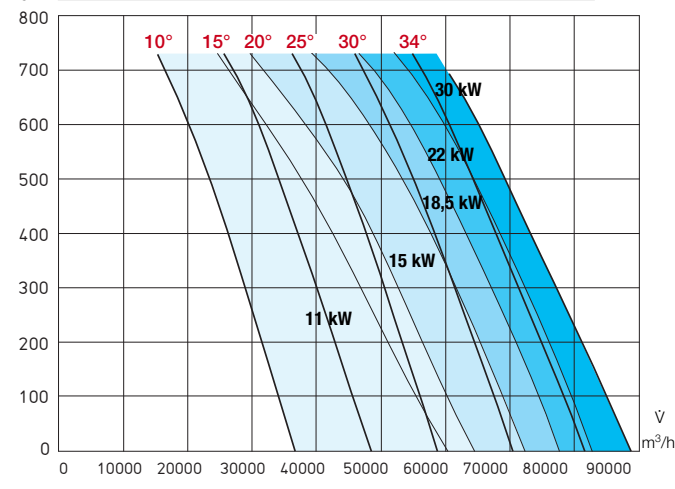




**B AVD 1000/4**

**R.P.M. = 1470**

Frequency	Hz	Ges.	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub> 10°		dB(A)	101	73	87	93	97	95	87	79
L <sub>WA</sub> 20°		dB(A)	103	75	89	95	99	97	89	81
L <sub>WA</sub> 30°		dB(A)	107	79	93	99	103	101	93	85



\* Type assignment see table, last column

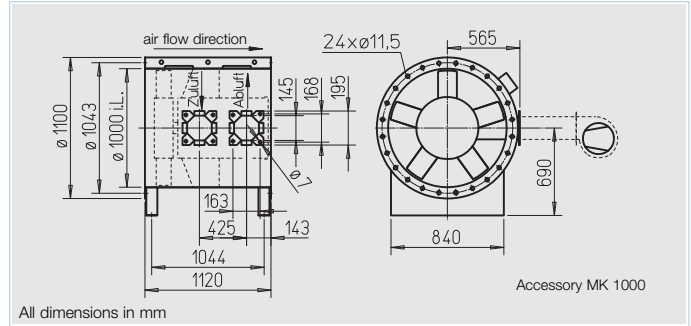
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Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression	Suspension	Type	Ref.No.
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1000/4 11 kW F300	2372	1470	64460	11,0	400	21,2	*	776	40 <sup>2)</sup> / 300	383	203		SDD 5	1924	SDZ 5	1925	
B AVD 1000/4 15 kW F300	2373	1465	72120	15,0	400	28,7	*	776	40 <sup>2)</sup> / 300	427	223		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 18,5 kW F300	2550	1465	77570	18,5	400	35,1	*	776	40 <sup>2)</sup> / 300	449	262		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 22 kW F300	2375	1465	81210	22,0	400	40,5	*	776	40 <sup>2)</sup> / 300	487	284		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 30 kW F300	2376	1470	88180	30,0	400	56,2	*	776	40 <sup>2)</sup> / 300	552	321		SDD 6	1926	SDZ 6	1927	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 1000/8/4 3,0/11 kW F300	2377	725/1455	31790/63800	3,0/11,0	400	7,0/21,0	*	471	40 <sup>2)</sup> / 300	383	217	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 4,3/17 kW F300	2378	730/1475	36840/74440	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 300	449	260	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 5,0/20 kW F300	2379	730/1470	39560/79660	5,0/20,0	400	14,1/38,6	*	471	40 <sup>2)</sup> / 300	487	275	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 6,5/28 kW F300	2380	735/1480	44090/88770	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 300	552	334	PDA 63	1283	SDD 6	1926	SDZ 6	1927
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1000/4 11 kW F400	2458	1470	64460	11,0	400	21,2	*	776	40 <sup>2)</sup> / 400	383	203		SDD 5	1924	SDZ 5	1925	
B AVD 1000/4 15 kW F400	2459	1465	72120	15,0	400	28,7	*	776	40 <sup>2)</sup> / 400	427	223		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 18,5 kW F400	2611	1465	77570	18,5	400	35,1	*	776	40 <sup>2)</sup> / 400	449	262		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 22 kW F400	2461	1465	81210	22,0	400	40,5	*	776	40 <sup>2)</sup> / 400	487	284		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4 30 kW F400	2462	1470	88180	30,0	400	56,2	*	776	40 <sup>2)</sup> / 400	552	321		SDD 6	1926	SDZ 6	1927	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 1000/8/4 3,0/11 kW F400	2464	725/1470	29180/58760	3,0/11,0	400	7,0/21,0	*	471	40 <sup>2)</sup> / 400	383	217	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 4,3/17 kW F400	2465	730/1475	32370/65190	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 400	449	260	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 5,0/20 kW F400	2466	730/1470	38070/75630	5,0/20,0	400	14,1/38,6	*	471	40 <sup>2)</sup> / 400	487	275	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4 6,5/28 kW F400	2467	735/1480	44650/89290	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 400	552	334	PDA 63	1283	SDD 6	1926	SDZ 6	1927

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C).

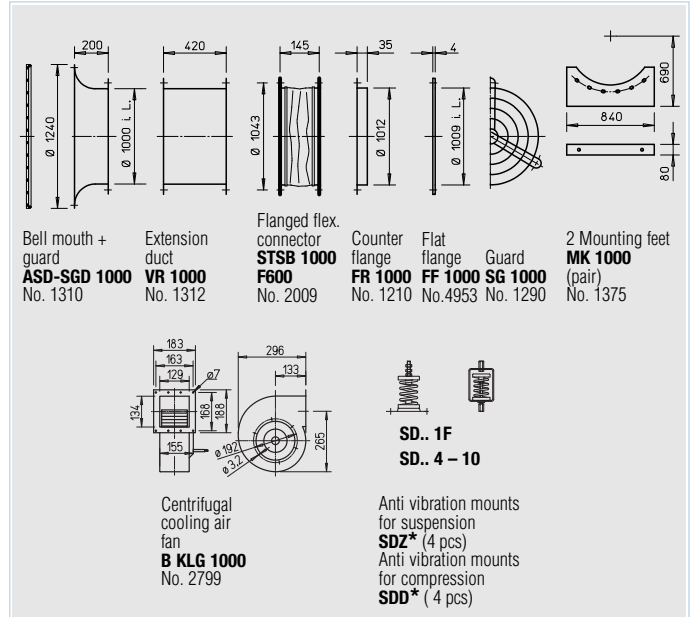
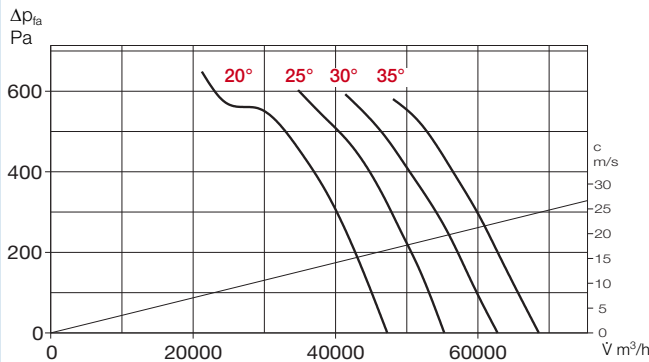
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 1000/4

R.P.M. = 1470

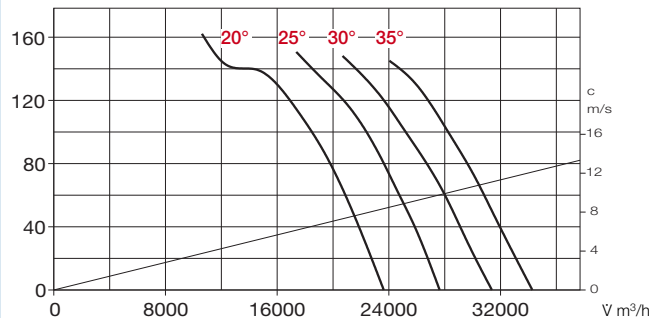
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 101	73	87	93	97	95	87	79
L <sub>WA</sub> 20°		dB(A) 103	75	89	95	99	97	89	81
L <sub>WA</sub> 30°		dB(A) 107	79	93	99	103	101	93	85



### B AVD 1000/8

R.P.M. = 735

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 83	61	71	77	78	73	62	53
L <sub>WA</sub> 20°		dB(A) 85	63	73	79	80	75	64	55
L <sub>WA</sub> 30°		dB(A) 89	67	77	83	84	79	68	59

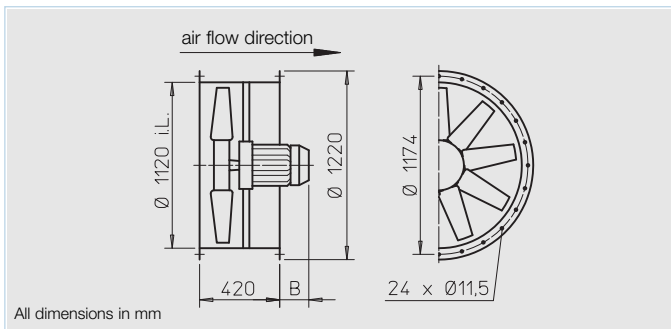


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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1000/4-20 F600	2875	1470	47270	11,0	400	21,20	20	776	40 <sup>2)</sup> / 600	-	314		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4-25 F600	2876	1465	55090	15,0	400	28,70	25	776	40 <sup>2)</sup> / 600	-	334		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4-30 F600	2877	1465	62550	15,0	400	28,70	30	776	40 <sup>2)</sup> / 600	-	334		SDD 6	1926	SDZ 6	1927	
B AVD 1000/4-35 F600	2878	1465	68840	22,0	400	40,50	35	776	40 <sup>2)</sup> / 600	-	395		SDD 6	1926	SDZ 6	1927	
<b>F600</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54																	
B AVD 1000/8/4-20 F600	2879	725/1455	23310/46780	3,0/11,0	400	7,0/21,0	20	471	40 <sup>2)</sup> / 600	-	328	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4-25 F600	2880	730/1475	27450/54460	4,3/17,0	400	12,7/33,4	25	471	40 <sup>2)</sup> / 600	-	371	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4-30 F600	2881	730/1475	31170/62980	4,3/17,0	400	12,7/33,4	30	471	40 <sup>2)</sup> / 600	-	371	PDA 25	5060	SDD 6	1926	SDZ 6	1927
B AVD 1000/8/4-35 F600	2882	730/1470	34300/69070	5,0/20,0	400	14,1/38,6	35	471	40 <sup>2)</sup> / 600	-	386	PDA 63	1283	SDD 6	1926	SDZ 6	1927

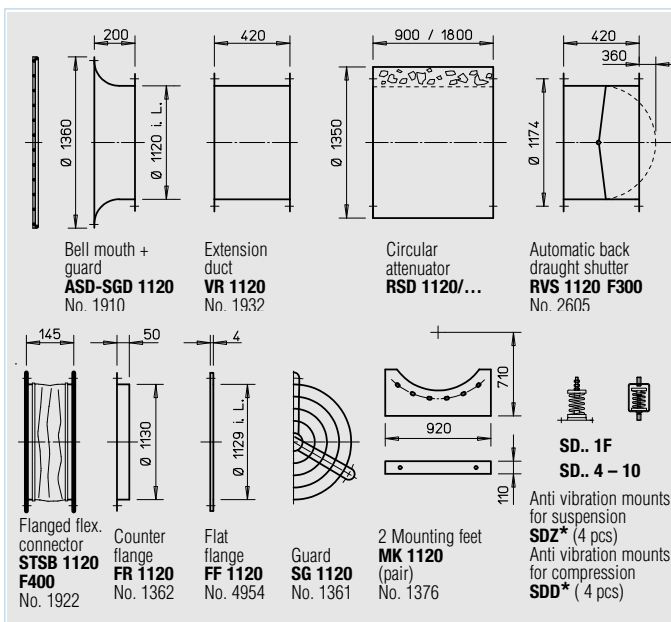
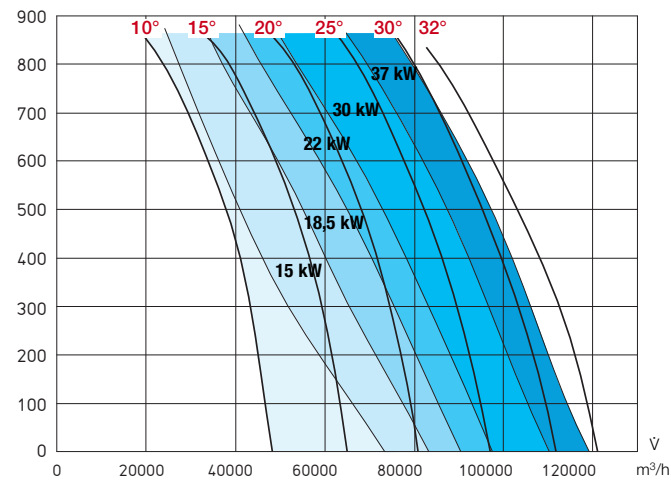
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



B AVD 1120/4

R.P.M. = 1480

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 104	75	92	98	99	94	89	84
L <sub>WA</sub> 20°		dB(A) 107	78	95	101	102	97	92	87
L <sub>WA</sub> 30°		dB(A) 110	81	98	104	105	100	95	90



\* Type assignment see table, last column

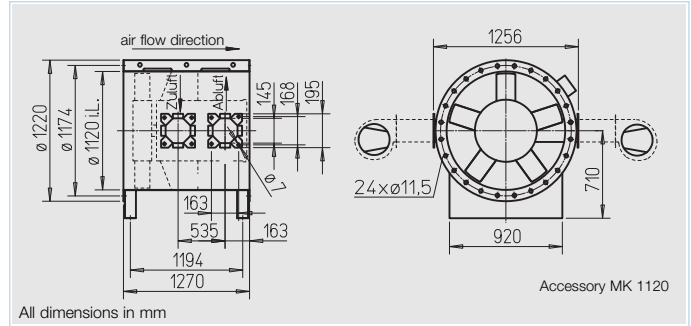
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Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression Type	Ref.No.	Suspension Type	Ref.No.
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1120/4 15 kW F300	2383	1465	83280	15,0	400	28,7	*	776	40 <sup>2)</sup> / 300	427	248		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 18,5 kW F00	2551	1465	90290	18,5	400	35,1	*	776	40 <sup>2)</sup> / 300	449	287		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 22 kW F300	2385	1465	96430	22,0	400	40,5	*	776	40 <sup>2)</sup> / 300	487	309		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 30 kW F300	2386	1470	109953	30,0	400	56,2	*	776	40 <sup>2)</sup> / 300	552	346		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 37 kW F300	2387	1475	119153	37,0	400	66,6	*	776	40 <sup>2)</sup> / 300	641	468		SDD 7	1928	SDZ 7	1929	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 1120/8/4 4,3/17 kW F300	2388	730/1475	42810/86500	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 300	449	285	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1120/8/4 5,0/20 kW F300	2389	730/1470	46300/93240	5,0/20,0	400	14,1/38,6	*	471	40 <sup>2)</sup> / 300	487	300	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1120/8/4 6,5/28 kW F300	2390	735/1480	53220/107160	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 300	552	359	PDA 63	1283	SDD 7	1928	SDZ 7	1929
B AVD 1120/8/4 9,2/37 kW F300	2391	740/1485	59780/119970	9,2/37,0	400	25,4/74,2	*	471	40 <sup>2)</sup> / 300	641	486	PDA 115	1352	SDD 7	1928	SDZ 7	1929
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1120/4 15 kW F400	2470	1465	83280	15,0	400	28,7	*	776	40 <sup>2)</sup> / 400	427	248		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 18,5 kW F400	2612	1465	90290	18,5	400	35,1	*	776	40 <sup>2)</sup> / 400	449	287		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 22 kW F400	2472	1465	96430	22,0	400	40,5	*	776	40 <sup>2)</sup> / 400	487	309		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 30 kW F400	2473	1470	109953	30,0	400	56,2	*	776	40 <sup>2)</sup> / 400	552	346		SDD 6	1926	SDZ 6	1927	
B AVD 1120/4 37 kW F400	2474	1475	119153	37,0	400	66,6	*	776	40 <sup>2)</sup> / 400	641	468		SDD 7	1928	SDZ 7	1929	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph./ 50 Hz, protection to IP 54																	
B AVD 1120/8/4 4,3/17 kW F400	2475	730/1475	42810/86500	4,3/17,0	400	12,7/33,4	*	471	40 <sup>2)</sup> / 400	449	285	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1120/8/4 5,0/20 kW F400	2476	730/1470	46300/93240	5,0/20,0	400	14,1/38,6	*	471	40 <sup>2)</sup> / 400	487	300	PDA 63	1283	SDD 6	1926	SDZ 6	1927
B AVD 1120/8/4 6,5/28 kW F400	2477	735/1480	53220/107160	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 400	552	359	PDA 63	1283	SDD 7	1928	SDZ 7	1929
B AVD 1120/8/4 9,2/37 kW F400	2478	740/1485	59780/119970	9,2/37,0	400	25,4/74,2	*	471	40 <sup>2)</sup> / 400	641	486	PDA 115	1352	SDD 7	1928	SDZ 7	1929

\* Pitch angle must be stated when ordering.

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C).

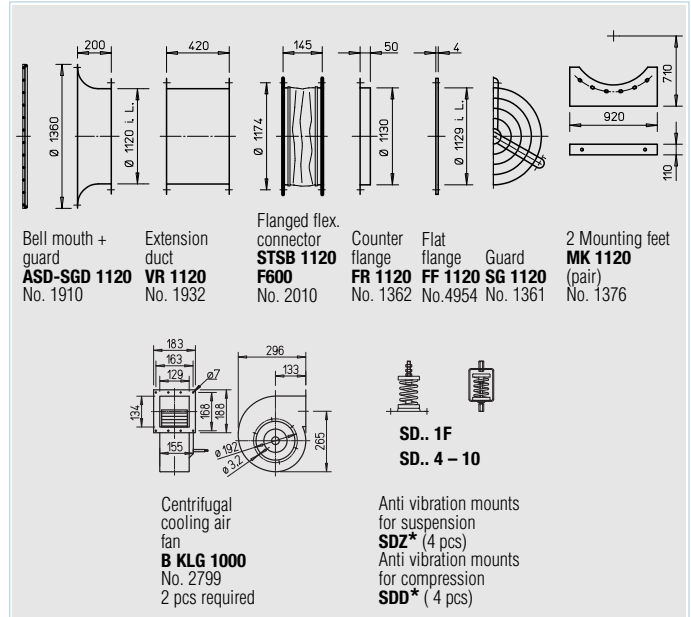
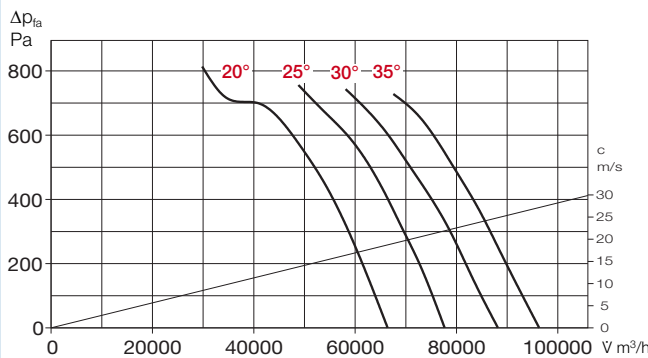
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 1120/4

R.P.M. = 1470

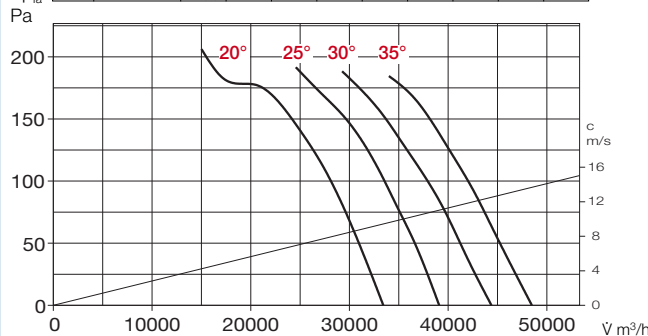
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	104	75	92	98	99	94	89	84
L <sub>WA</sub> 20°	dB(A)	107	78	95	101	102	97	92	87
L <sub>WA</sub> 30°	dB(A)	110	81	98	104	105	100	95	90



### B AVD 1120/8

R.P.M. = 740

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°	dB(A)	85	63	73	79	80	75	64	55
L <sub>WA</sub> 20°	dB(A)	88	66	76	82	83	78	67	58
L <sub>WA</sub> 30°	dB(A)	92	70	80	86	87	82	71	62

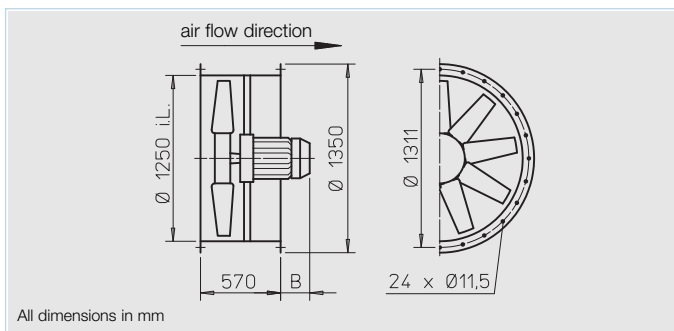


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\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1120/4-20 F600	2885	1465	66180	18,5	400	35,10	20	776	40 <sup>2)</sup> / 600	-	446	SDD 7	1928	SDZ 7	1929		
B AVD 1120/4-25 F600	2886	1465	77390	22,0	400	40,50	25	776	40 <sup>2)</sup> / 600	-	468	SDD 7	1928	SDZ 7	1929		
B AVD 1120/4-30 F600	2887	1470	88180	30,0	400	56,20	30	776	40 <sup>2)</sup> / 600	-	504	SDD 7	1928	SDZ 7	1929		
B AVD 1120/4-35 F600	2888	1475	97370	37,0	400	66,60	35	776	40 <sup>2)</sup> / 600	-	624	SDD 8	1930	SDZ 8	1931		
<b>F600</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph / 50 Hz, protection to IP 54																	
B AVD 1120/8/4-20 F600	2889	730/1470	32980/66410	5,0/20,0	400	14,1/38,6	20	471	40 <sup>2)</sup> / 600	-	459	PDA 63	1263	SDD 7	1928	SDZ 7	1929
B AVD 1120/8/4-25 F600	2890	735/1480	38830/78190	6,5/28,0	400	18,0/52,0	25	471	40 <sup>2)</sup> / 600	-	517	PDA 63	1263	SDD 7	1928	SDZ 7	1929
B AVD 1120/8/4-30 F600	2891	735/1480	44090/88780	6,5/28,0	400	18,0/52,0	30	471	40 <sup>2)</sup> / 600	-	517	PDA 63	1263	SDD 7	1928	SDZ 7	1929
B AVD 1120/8/4-35 F600	2892	740/1485	48550/98030	9,2/37,0	400	25,4/74,2	35	471	40 <sup>2)</sup> / 600	-	642	PDA 115	1352	SDD 8	1930	SDZ 8	1931

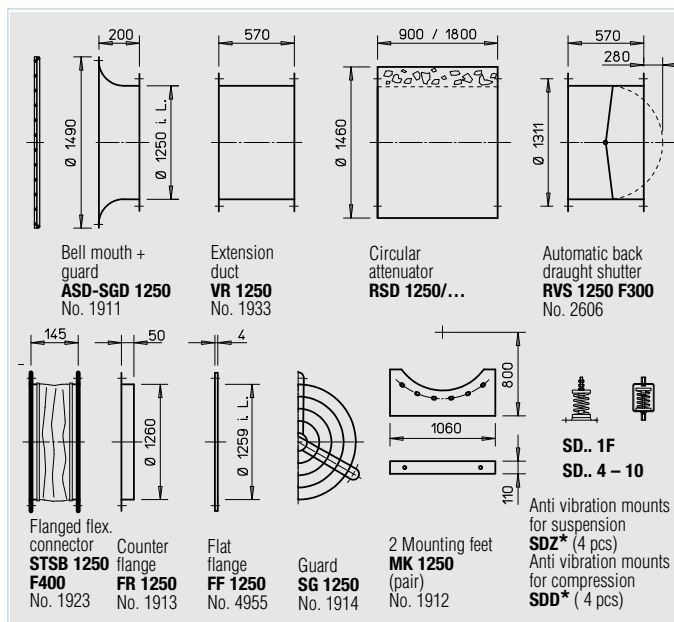
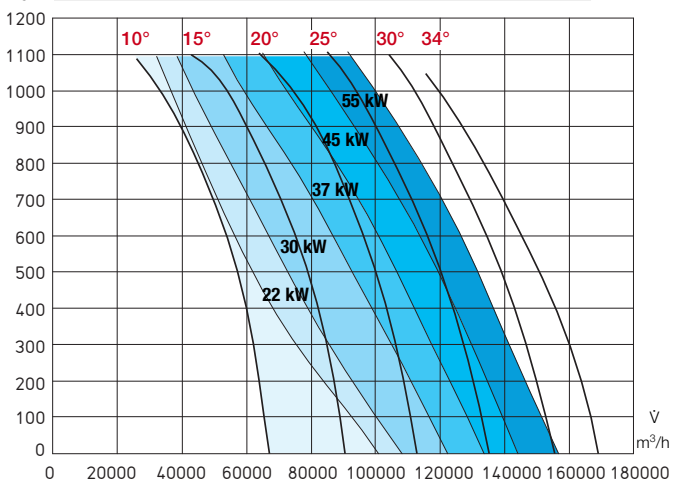
<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



**B AVD 1250/4**

**R.P.M. = 1485**

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 107	78	95	101	102	97	92	87
L <sub>WA</sub> 20°		dB(A) 110	81	98	104	105	100	95	90
L <sub>WA</sub> 30°		dB(A) 113	84	101	107	108	103	98	93



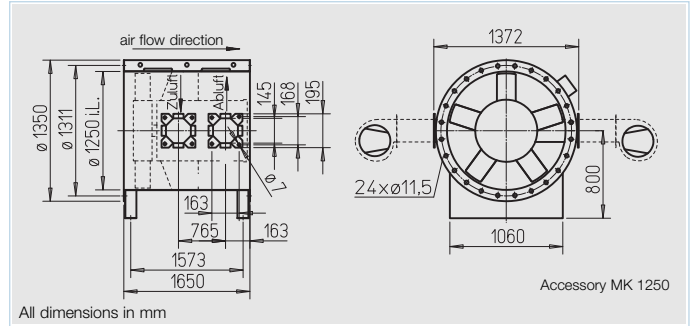
\* Type assignment see table, last column

Information	Pages
Technical description	16 on
Design of systems	3 on
Mounting accessories	146 on
Gas warning system, circuitry and control technology	152 on

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Compression Type	Ref.No.	Suspension Type	Ref.No.
<b>F300</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1250/4 22 kW F300	2555	1465	105550	22,0	400	40,5	*	776	40 <sup>2)</sup> / 300	487	336		SDD 6	1926	SDZ 6	1927	
B AVD 1250/4 30 kW F300	2392	1470	114635	30,0	400	56,2	*	776	40 <sup>2)</sup> / 300	552	372		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 37 kW F300	2393	1475	132530	37,0	400	66,6	*	776	40 <sup>2)</sup> / 300	641	494		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 45 kW F300	2394	1475	142530	45,0	400	80,7	*	776	40 <sup>2)</sup> / 300	641	515		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 55 kW F300	2395	1475	155030	55,0	400	97,1	*	776	40 <sup>2)</sup> / 300	720	598		SDD 8	1930	SDZ 8	1931	
<b>F300</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54																	
B AVD 1250/8/4 6,5/28 kW F300	2396	735/1480	57320/115410	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 300	487	384	PDA 63	1283	SDD 7	1928	SDZ 7	1929
B AVD 1250/8/4 9,2/37 kW F300	2397	740/1485	66490/133430	9,2/37,0	400	25,4/74,2	*	471	40 <sup>2)</sup> / 300	641	510	PDA 115	1352	SDD 7	1928	SDZ 7	1929
B AVD 1250/8/4 11/44 kW F300	2398	740/1480	70250/140500	11,0/44,0	400	27,2/80,2	*	471	40 <sup>2)</sup> / 300	641	577	PDA 115	1352	SDD 8	1930	SDZ 8	1931
B AVD 1250/8/4 14,7/55 kW F300	2399	735/1480	77250/155560	14,7/55,0	400	36,5/100	*	471	40 <sup>2)</sup> / 300	720	604	PDA 115	1352	SDD 8	1930	SDZ 8	1931
<b>F400</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1250/4 22 kW F400	2613	1465	105550	22,0	400	40,5	*	776	40 <sup>2)</sup> / 400	487	336		SDD 6	1926	SDZ 6	1927	
B AVD 1250/4 30 kW F400	2480	1470	114635	30,0	400	56,2	*	776	40 <sup>2)</sup> / 400	552	372		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 37 kW F400	2481	1475	132530	37,0	400	66,6	*	776	40 <sup>2)</sup> / 400	641	494		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 45 kW F400	2482	1475	142530	45,0	400	80,7	*	776	40 <sup>2)</sup> / 400	641	515		SDD 7	1928	SDZ 7	1929	
B AVD 1250/4 55 kW F400	2483	1475	155030	55,0	400	97,1	*	776	40 <sup>2)</sup> / 400	720	598		SDD 8	1930	SDZ 8	1931	
<b>F400</b> 2 speed motor, pole-switching (Dahlander winding Y/YY), 400 V / 3 ph. / 50 Hz, protection to IP 54																	
B AVD 1250/8/4 6,5/28 kW F400	2484	735/1480	57320/115410	6,5/28,0	400	18,0/52,0	*	471	40 <sup>2)</sup> / 400	487	384	PDA 63	1283	SDD 7	1928	SDZ 7	1929
B AVD 1250/8/4 9,2/37 kW F400	2485	740/1485	66490/133430	9,2/37,0	400	25,4/74,2	*	471	40 <sup>2)</sup> / 400	641	510	PDA 115	1352	SDD 7	1928	SDZ 7	1929
B AVD 1250/8/4 11/44 kW F400	2486	740/1480	70250/140500	11,0/44,0	400	27,2/80,2	*	471	40 <sup>2)</sup> / 400	641	577	PDA 115	1352	SDD 8	1930	SDZ 8	1931
B AVD 1250/8/4 14,7/55 kW F400	2487	735/1480	77250/155560	14,7/55,0	400	36,5/100	*	471	40 <sup>2)</sup> / 400	720	604	PDA 115	1352	SDD 8	1930	SDZ 8	1931

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min. at 300 °C or 120 min. at 400 °C).

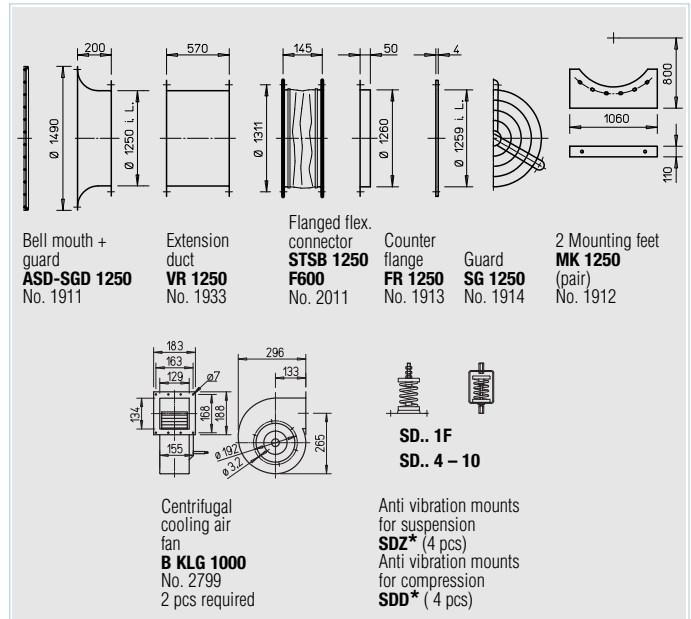
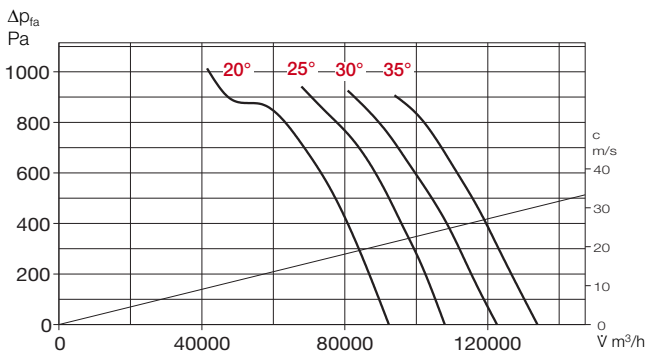
<sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.



### B AVD 1250/4

R.P.M. = 1470

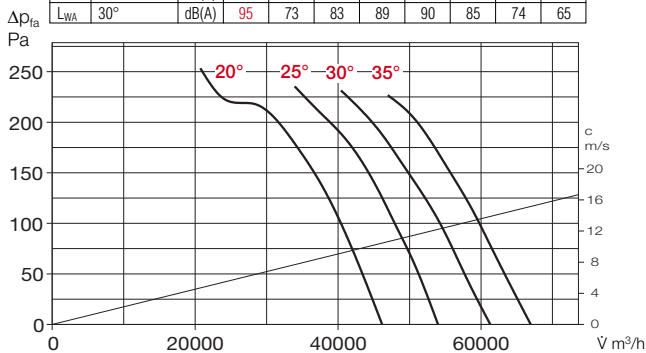
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 107	78	95	101	102	97	92	87
L <sub>WA</sub> 20°		dB(A) 110	81	98	104	105	100	95	90
L <sub>WA</sub> 30°		dB(A) 113	84	101	107	108	103	98	93



### B AVD 1250/8

R.P.M. = 735

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> 10°		dB(A) 88	66	76	82	83	78	67	58
L <sub>WA</sub> 20°		dB(A) 91	69	79	85	86	81	70	61
L <sub>WA</sub> 30°		dB(A) 95	73	83	89	90	85	74	65



Information	Pages
Technical description	16 on
Design of systems	3 on
Accessory details	Pages
Mounting accessories	146 on
Centrifugal cooling fan	147
Attenuators	151
Gas warning systems, circuitry and control technology	152 on

\* Type assignment see table, last column

Type	Ref. No.	R.P.M.	Air flow volume (FID)	Motor power. (nominal)	Voltage	Current at full load	Pitch angle	Wiring diagram	Max. air flow temp. <sup>1)</sup>	Dim. B Motor protrusion	Nominal weight (net)	Pole switch surface mounted		Anti vibration mounts (nominal size)			
												Type	Ref.No.	Type	Ref.No.	Type	Ref.No.
<b>F600</b> 3 Phase motor, 50 Hz, protection to IP 54																	
B AVD 1250/4-20 F600	2893	1470	92320	30	400	56,20	20	776	40 <sup>2)</sup> / 600	-	595		SDD 8	1930	SDZ 8	1931	
B AVD 1250/4-25 F600	2894	1475	108330	37	400	66,60	25	776	40 <sup>2)</sup> / 600	-	715		SDD 8	1930	SDZ 8	1931	
B AVD 1250/4-30 F600	2895	1475	123000	45	400	80,70	30	776	40 <sup>2)</sup> / 600	-	736		SDD 8	1930	SDZ 8	1931	
B AVD 1250/4-35 F600	2896	1480	135830	55	400	95,20	35	776	40 <sup>2)</sup> / 600	-	850		SDD 8	1930	SDZ 8	1931	
<b>F600</b> 2 speed motor, pole-switching (Dahlander winding Y/Y), 400 V / 3 ph / 50 Hz, protection to IP 54																	
B AVD 1250/8/4-20 F600	2897	735/1480	46160/92950	6,5/28,0	400	18,0/52,0	20	471	40 <sup>2)</sup> / 600	-	608	PDA 63	1283	SDD 8	1930	SDZ 8	1931
B AVD 1250/8/4-25 F600	2898	740/1485	54350/109060	9,2/37,0	400	25,4/74,2	25	471	40 <sup>2)</sup> / 600	-	733	PDA 115	1352	SDD 8	1930	SDZ 8	1931
B AVD 1250/8/4-30 F600	2899	740/1480	61710/123420	11,0/44,0	400	27,2/80,2	30	471	40 <sup>2)</sup> / 600	-	798	PDA 115	1352	SDD 8	1930	SDZ 8	1931
B AVD 1250/8/4-35 F600	2900	735/1480	67450/135830	14,7/55,0	400	36,5/100	35	471	40 <sup>2)</sup> / 600	-	823	PDA 115	1352	SDD 8	1930	SDZ 8	1931

<sup>1)</sup> During ventilation / smoke extraction (nonrecurring 120 min.). <sup>2)</sup> Higher air flow temperatures during continuous operation (ventilation operation) on request.