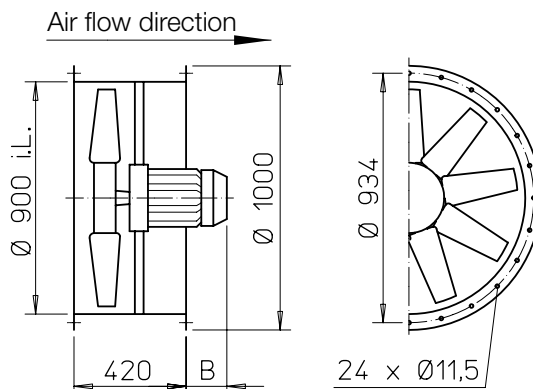


AVD DK 900



Dimensions AVD DK 900



All dimensions in mm

Dim. B see table

■ **Casing**

With motor bracket made from galvanised sheet steel.

■ **Impeller**

Hub and blades made of corrosion-resistant aluminium alloy. 10 aerodynamically profiled blades in combination with the guide vane achieve maximum efficiency and pressure ratings. Dynamically balanced, quality level 6.3 for low-vibration operation. Blades factory adjustable, see type overview for maximum pitch angle.

■ **Motor**

Directly driven by efficient IE3 three-phase standard motor. Pole-switching fans with IEC standard motor. Protection class IP55, insulation class F.

■ **Motor protrusion**

The protrudes dimension B in mm of the motor to the casing must be observed according to the type table.

■ **Motor protection**

All types have PTC resistors and must be protected by the following full motor protection devices: MSA, Ref. no. 01289. All other types must be protected by a conventional circuit breaker on site.

■ **Electrical connection**

Terminal box protection class IP55 mounted to casing

■ **Speed control**

Controlled performance curves upon request. All types are speed controllable by frequency inverter (except pole-switching and explosion-proof). The planned use of a frequency inverter without sine filter must be stated when ordering. This requires a change of fan design and possible additional costs.

■ **Installation**

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

■ **Dimensions**

Pole-switching and explosion-proof types may vary from adjacent information. Motor length may vary. Note protrusion dimension B.

■ **Noise levels**

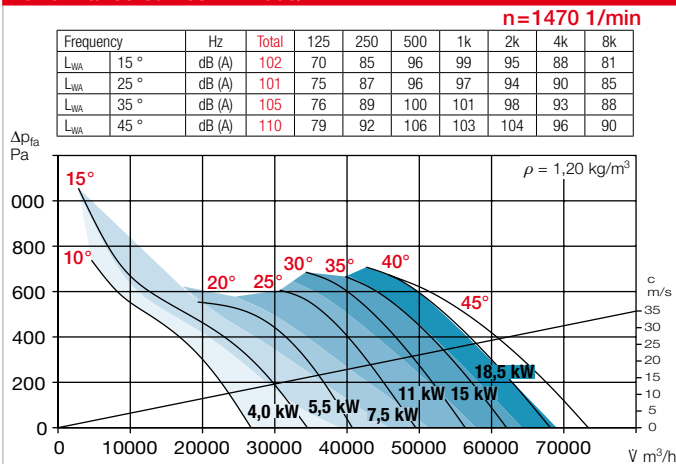
The sound power levels are indicated by means of frequency and as sum levels above the performance curves.

Type	Ref. no.	Speed min ⁻¹	Motor power (nom.) (output) kW	Nominal voltage V	Power consumption A	Max. pitch angle ²⁾ °	Dim. B Motor protrusion mm	Wiring diagram No.	Max. air flow temp. +°C	Net weight approx. kg	Frequency inverter ³⁾ Type	Ref. no.
60° 3 phase motor, 400 V, 50 Hz, squirrel-cage rotor, protection class IP55												
AVD RK 900/6 3 kW	06985	970	3.0	400	6.9	24	320	776	60	140	FU-BS 8,0	05461
AVD RK 900/6 4 kW	40280	970	4.0	400	9.0	30	340	776	60	145	FU-BS 10	05462
AVD RK 900/6 5,5 kW	40281	970	5.5	400	12.0	40	340	776	60	155	FU-CS 14	05875
AVD RK 900/4 4 kW	06986	1460	4.0	400	8.0	—	300	776	60	116	FU-BS 8,0	05461
AVD RK 900/4 5,5 kW	40282	1470	5.5	400	10.7	16	300	776	60	138	FU-CS 14	05875
AVD RK 900/4 7,5 kW	06987	1470	7.5	400	14.3	21	350	776	60	150	FU-BS 16	05463
AVD RK 900/4 11 kW	06988	1450	11.0	400	20.7	27	400	776	60	228	FU-CS 22	05470
AVD RK 900/4 15 kW	40283	1450	15.0	400	27.4	35	440	776	60	258	FU-CS 32	05471
AVD RK 900/4 18,5 kW	40284	1460	18.5	400	33.6	40	480	776	60	260	FU-CS 40	05472
60° Pole-switching, 2 speed, 3 phase motor, Dahlander winding γ/γ, 400 V, 50 Hz, protection class IP55												
AVD RK 900/8/4 1,1/4,5 kW ¹⁾	06995	680/1435	1.1/4.5	400/400	3.6/9.4	12	280	777	60	125	—	—
AVD RK 900/8/4 1,5/6,3 kW ¹⁾	06996	680/1440	1.5/6.3	400/400	4.6/12.3	20	320	777	60	131	—	—
AVD RK 900/8/4 2,0/8,9 kW ¹⁾	40285	730/1460	2.0/8.9	400/400	7/18	23	430	777	60	180	—	—
AVD RK 900/8/4 2,7/12 kW ¹⁾	40308	700/1460	2.7/12	400/400	7.09/24	28	430	777	60	190	—	—
Ex Explosion-proof Ex e II, 3 phase motor, 50 Hz, protection class IP54, temperature class T1-T3												
AVD RK 900/6 Ex 4 kW	40882	965	4.0	400	8.18	30	320	776	40	150	not permitted	—
AVD RK 900/6 Ex 5,5 kW	40883	970	5.5	400	11.4	40	400	776	40	195	not permitted	—
AVD RK 900/4 Ex 11 kW	40884	1475	11.0	400	21.5	26	400	776	40	220	not permitted	—
AVD RK 900/4 Ex 15 kW	40885	1474	15.0	400	29.54	34	440	776	40	225	not permitted	—
AVD RK 900/4 Ex 18,5 kW	40886	1470	18.5	400	33.91	39	520	776	40	260	not permitted	—

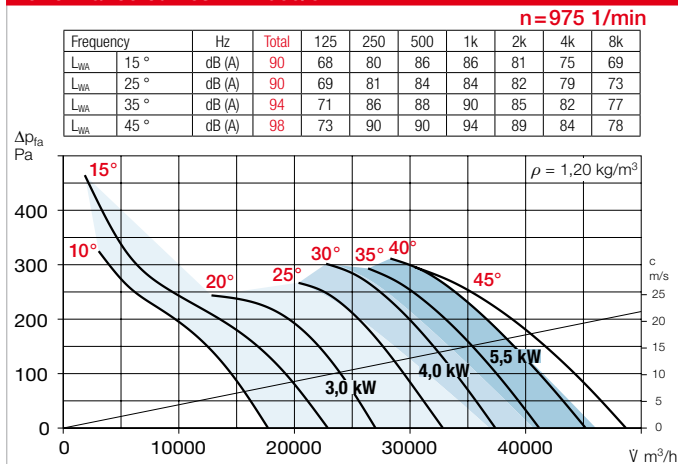
The flow volume and pressure increase information is required to determine the pitch angle.

¹⁾ Dahlander winding ²⁾ For the entire pitch angle performance curve, also higher depending on the operating point. ³⁾ Incl. full motor protection

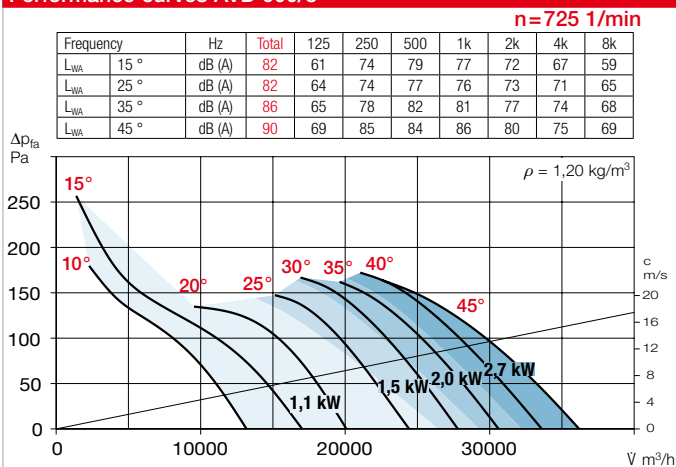
Performance curves AVD 900/4



Performance curves AVD 900/6



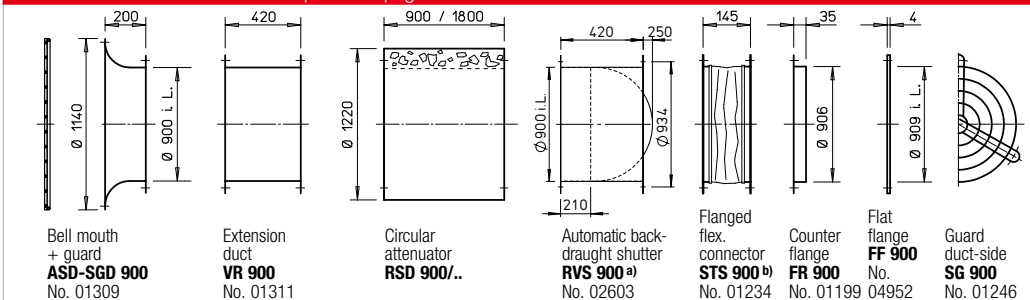
Performance curves AVD 900/8



Note for Ex types:

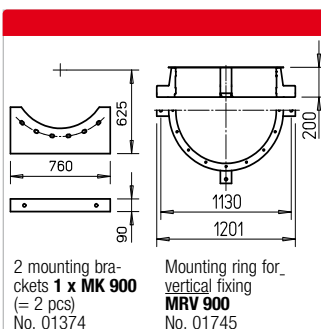
- Performance curves and sound data at www.HeliosSelect.de.
- At lower medium temperatures, power consumption increases, so an appropriate power reserve must be taken into account (e.g. +16% at -20 °C and +8% at 0 °C).

Accessories for AVD RK Description see page 167 ff.



a) Motor-operated back-draught shutter see main Helios catalogue b) Types for explosion-proof fans see below

Anti-vibration mounts			
Pressure		Tensile	
Type	Ref. no.	Type	Ref. no.
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 3	01367	SDZ 3	01366
SDD 3	01367	SDZ 3	01366
SDD 3	01367	SDZ 3	01366
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455
SDD 3	01367	SDZ 3	01366
SDD 3	01367	SDZ 3	01366
SDD 2	01453	SDZ 2	01455
SDD 3	01367	SDZ 3	01366
SDD 3	01367	SDZ 3	01366
SDD 3	01367	SDZ 3	01366



Information	Page
Techn. description	22 ff.
Project planning information	10 ff.
Special design	
Alternative voltage, protection class, air flow direction, higher air flow temperature and acid protection upon request.	

Other accessories	Page
b) Access. for ex-proof fans	
Flanged flexible connector	
Type STS 900 Ex	No. 02512
Mounting accessories	164 ff.
Attenuators	172
Gas warning systems, switch and control technology	174 ff.
Frequency inverter	184 ff.