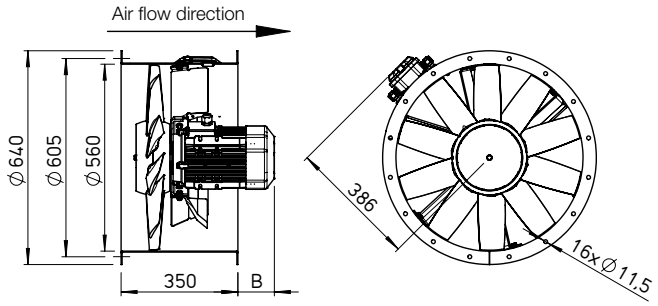
AVD DK 560

60 °C

Dimensions AVD DK 560



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 (except pole switching) 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 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.

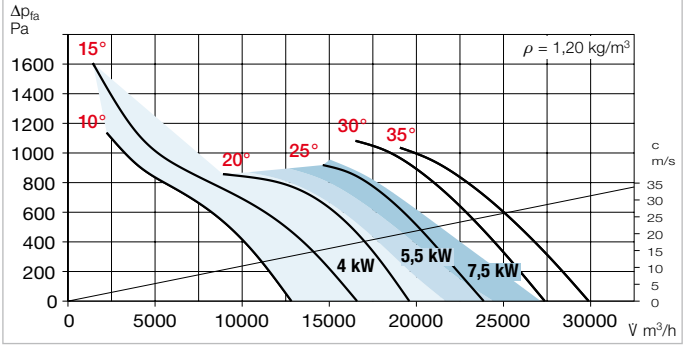
Type	Ref. no.	Speed	Motor power (nom.) (output)	Nominal voltage	Power consumption	Max. pitch angle[2]	Dim. B Motor protrusion	Wiring diagram	Max. air flow temp.	Net weight approx.	Frequency inverter[3] Type	Frequency inverter[3] Ref. no.
		min^{-1}	kW	V	A	°	mm	No.	+°C	kg		
60° **3 phase motor, 400 V, 50 Hz, squirrel-cage rotor, protection class IP55**												
AVD RK 560/4 1,1 kW	40326	1440	1.1	400	2.5	28	120	796	60	52	**FU-BS 5**	05460
AVD RK 560/4 1,5 kW	40327	1440	1.5	400	3.3	36	140	796	60	55	**FU-BS 8**	05461
AVD RK 560/4 2,2 kW	40328	1455	2.2	400	4.6	44	190	796	60	64	**FU-BS 5**	05460
AVD RK 560/2 4 kW	40329	2910	4.0	400	7.5	16	210	776	60	70	**FU-BS 8**	05461
AVD RK 560/2 5,5 kW	40330	2940	5.5	400	10.1	21	230	776	60	83	**FU-CS 14**	05875
AVD RK 560/2 7,5 kW	40331	2940	7.5	400	13.5	25	230	776	60	88	**FU-CS 14**	05875
60° **Pole-switching, 2 speed, 3 phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**												
AVD RK 560/4/2 1,4/5,9 kW [1]	40332	1400/2900	1.4/5.9	400/400	3.6/11.4	22	190	777	60	76	—	
AVD RK 560/4/2 2/8 kW [1]	40333	1410/2900	2.0/8.0	400/400	4.7/14.9	26	230	777	60	83	—	

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 560/2

n=2950 1/min

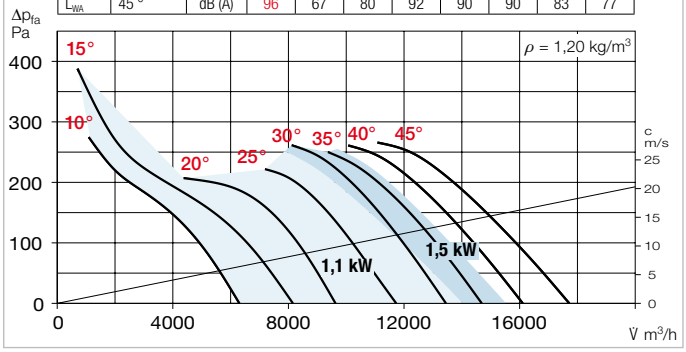
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	15 °	dB (A)	107	69	81	97	104	102	97	89
L_{WA}	25 °	dB (A)	107	78	87	98	104	102	97	92
L_{WA}	35 °	dB (A)	111	85	87	97	107	106	101	94



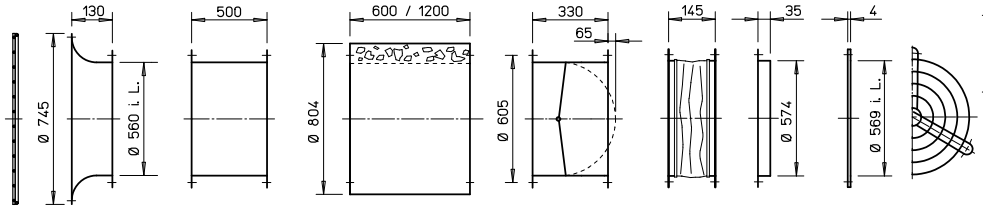
Performance curves AVD 560/4

n=1480 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	15 °	dB (A)	89	58	75	84	84	81	75	66
L_{WA}	25 °	dB (A)	89	64	77	84	84	81	77	72
L_{WA}	35 °	dB (A)	92	63	75	87	89	84	79	74
L_{WA}	45 °	dB (A)	96	67	80	92	90	90	83	77



Accessories for AVD RK Description see page 163 ff.



Bell mouth + guard **ASD-SGD 560** No. 01421

Extension duct **VR 560** No. 01409

Circular attenuator **RSD 560/...**

Backdraught shutter **RVS 560** [a] No. 02599

Flanged flex. connector **STS 560** [b] No. 01226

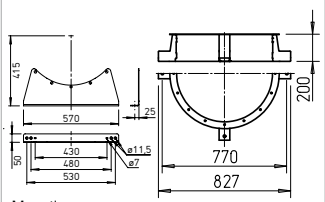
Counter flange **FR 560** No. 01209

Flat flange **FF 560** No. 04948

Duct-side guard **SG 560** No. 01242

[a] Motor-operated back-draught shutter see main Helios catalogue

	Anti-vibration mounts			
	Pressure		**Tensile**	
	Type	Ref. no.	**Type**	Ref. no.
	SDD 1	01452	**SDZ 1**	01454
	SDD 1	01452	**SDZ 1**	01454
	SDD 1	01452	**SDZ 2**	01455
	SDD 1	01452	**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



Mounting brackets **MK 560** (1 set = 2 pcs.) No. 00675

Mounting ring for vertical fixing **MRV 560** No. 01741

Information	**Page**
Techn. description	22 f.
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**
Mounting accessories	160 ff.
Attenuators	168
Gas warning systems, switch and control technology	170 ff.
Frequency inverter	180 ff.