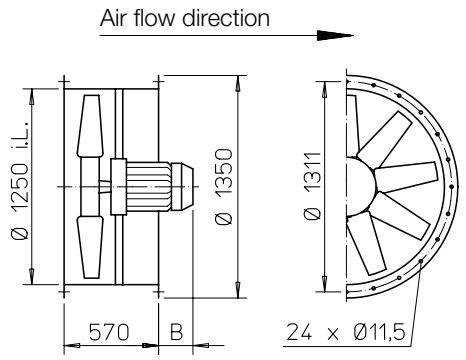
AVD DK 1250

60 °C

Dimensions AVD DK 1250



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

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). 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.

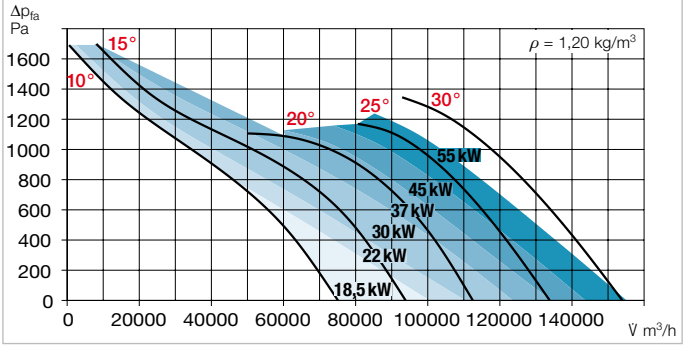
Type	Ref. no.	Speed	Motor power (nom.) (output)	Nominal voltage	Power consumption	Max. pitch angle[2]	Dim. B Motor protrusion	Wiring diagram	Max. air flow temp.	Net weight approx.	Frequency inverter[3] Type	Ref. no.
		min^{-1}	kW	V	A	°	mm	No.	+°C	kg		
60° **3 phase motor, 400 V, 50 Hz, squirrel-cage rotor, protection class IP55**												
AVD RK 1250/6 7,5 kW	40219	960	7,5	400	16,2	13	400	776	60	300	**FU-CS 18**	05469
AVD RK 1250/6 11 kW	40220	960	11	400	23,2	21	450	776	60	335	**FU-CS 32**	05471
AVD RK 1250/6 15 kW	40221	960	15	400	30,1	25	520	776	60	360	**FU-CS 32**	05471
AVD RK 1250/6 18,5 kW	40222	970	18,5	400	36,4	29	560	776	60	410	**FU-CS 40**	05472
AVD RK 1250/6 22 kW	40223	970	22	400	42,6	35	560	776	60	430		
AVD RK 1250/6 30 kW	40315	975	30	400	53	42	600	776	60	470		
AVD RK 1250/4 18,5 kW	40317	1460	18,5	400	33,6	10	480	776	60	340	**FU-CS 40**	05472
AVD RK 1250/4 22 kW	40214	1460	22	400	39,3	12	520	776	60	370	**FU-CS 40**	05472
AVD RK 1250/4 30 kW	40215	1470	30	400	57,2	14	560	776	60	425		
AVD RK 1250/4 37 kW	40216	1470	37	400	65,4	21	570	776	60	500		
AVD RK 1250/4 45 kW	40217	1470	45	400	79,3	23	600	776	60	530		
AVD RK 1250/4 55 kW	40218	1485	55	400	97,6	26	610	776	60	690		
60° **Pole-switching, 2 speed, 3 phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**												
AVD RK 1250/8/4 4,6/18,5 kW[1]	40318	730/1470	4,6/18,5	400/400	14/35		530	777	60	270		
AVD RK 1250/8/4 7/30 kW[1]	40319	720/1465	7/30	400/400	17,3/59	14	550	777	60	350		
AVD RK 1250/8/4 9/37 kW[1]	40320	725/1465	9/37	400/400	23/69	21	600	777	60	400		
AVD RK 1250/8/4 11/45 kW[1]	40321	725/1465	11/45	400/400	28/84	23	600	777	60	420		
AVD RK 1250/8/4 14,7/55 kW[1]	40955	735/1480	14,7/55	400/400	47,75/105,2	26	600	777	60	660		

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 1250/4

n=1480 1/min

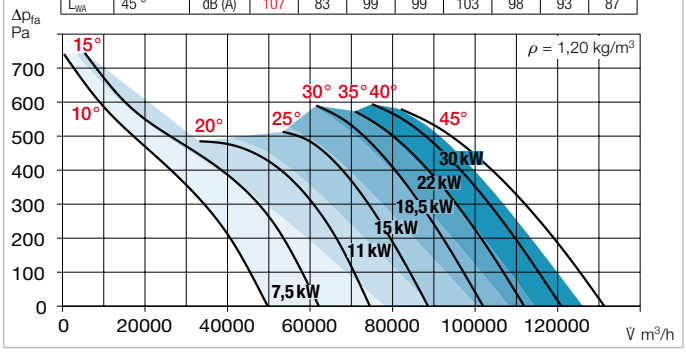
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	15 °	dB (A)	112	82	100	108	108	103	98	90
L_{WA}	25 °	dB (A)	111	85	98	106	106	103	99	94
L_{WA}	35 °	dB (A)	116	86	99	111	112	107	102	97



Performance curves AVD 1250/6

n=985 1/min

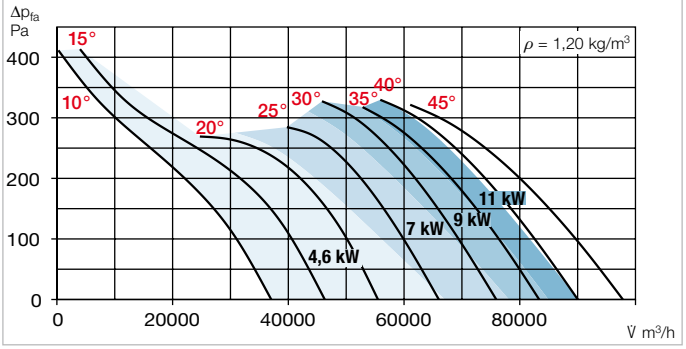
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	15 °	dB (A)	100	79	92	97	95	90	85	74
L_{WA}	25 °	dB (A)	99	79	91	94	94	91	88	83
L_{WA}	35 °	dB (A)	104	80	97	98	100	94	91	87
L_{WA}	45 °	dB (A)	107	83	99	99	103	98	93	87



Performance curves AVD 1250/8

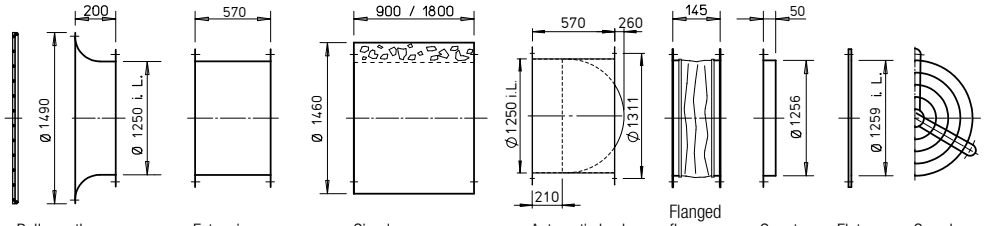
n=740 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	15 °	dB (A)	92	77	86	88	86	81	75	61
L_{WA}	25 °	dB (A)	91	74	84	86	85	83	80	75
L_{WA}	35 °	dB (A)	96	75	89	92	89	86	83	80



	Anti-vibration mounts			
	Pressure		**Tensile**	
	Type	Ref. no.	**Type**	Ref. no.
	SDD 3	01367	**SDZ 3**	01366
	SDD 3	01367	**SDZ 6**	01927
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 6**	01927
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 8**	01931
	SDD 3	01367	**SDZ 8**	01931
	SDD 3	01367	**SDZ 6**	01927
	SDD 3	01367	**SDZ 6**	01927
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929
	SDD 3	01367	**SDZ 7**	01929

Accessories for AVD RK Description see page 167 ff.



Bell mouth + guard **ASD-SGD 1250** No. 01911

Extension duct **VR 1250** No. 01933

Circular attenuator **RSD 1250/..**

Automatic back-draught shutter **RVS 1250** [a] No. 02606

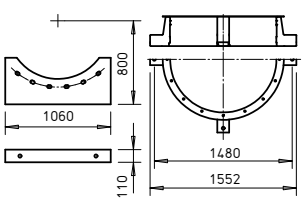
Flanged flex. connector **STS 1250** No. 09523

Counter flange **FR 1250** No. 01913

Flat flange **FF 1250** No. 04955

Guard duct-side **SG 1250 F** No. 01914

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



2 mounting brackets **1 x MK 1250** (= 2 pcs) No. 01912

Mounting ring for vertical fixing **MRV 1250** No. 01754

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.