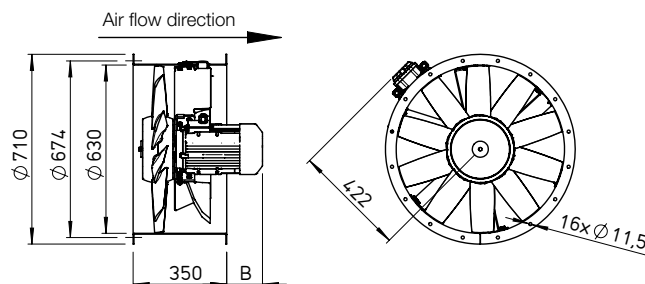


AVD DK 630



Dimensions AVD DK 630



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 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 630/4 1,5 kW	40334	1440	1.5	400	3.3	23	140	796	60	64	FU-BS 5	05460
AVD RK 630/4 2,2 kW	40335	1455	2.2	400	4.6	29	190	796	60	72	FU-BS 5	05460
AVD RK 630/4 3 kW	40336	1440	3	400	6	38	190	776	60	76	FU-BS 8	05461
AVD RK 630/4 4 kW	40337	1460	4	400	8	44	220	776	60	78	FU-BS 8	05461
AVD RK 630/2 5,5 kW	40338	2940	5.5	400	10.1	10	230	776	60	92	FU-CS 14	05875
AVD RK 630/2 7,5 kW	40339	2940	7.5	400	13.5	17	230	776	60	93	FU-CS 14	05875
60° Pole-switching, 2 speed, 3 phase motor, Dahlander winding Y/Y, 400 V, 50 Hz, protection class IP55												
AVD RK 630/4/2 1,4/5,9 kW ¹⁾	40340	1400/2900	1.4/5.9	400/400	3.6/11.4	11	190	777	60	81	—	—
AVD RK 630/4/2 2/8 kW ¹⁾	40341	1410/2900	2/8	400/400	4.7/14.9	18	230	777	60	87	—	—

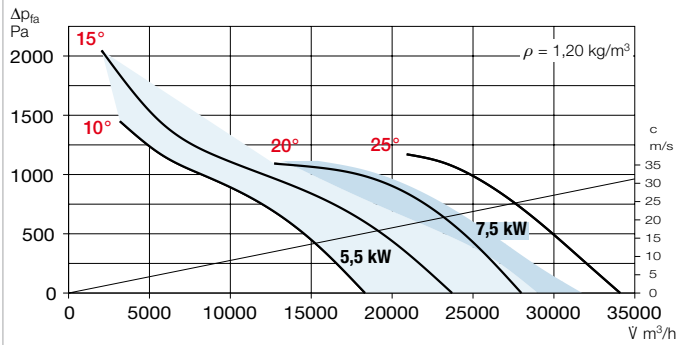
The flow volume and pressure increase information is required to determine the pitch angle.

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 630/2

n=2940 1/min

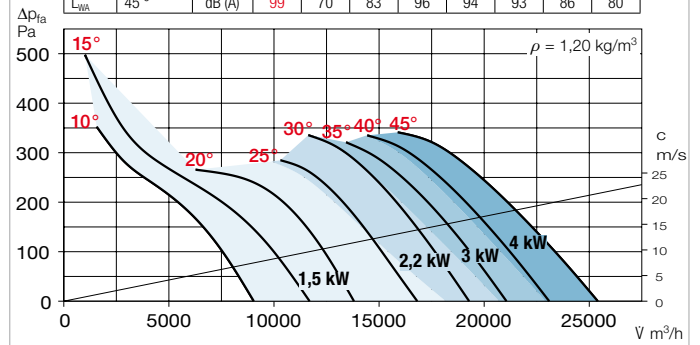
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA}	15 °	dB (A)	110	72	85	100	107	106	100	93
L _{WA}	25 °	dB (A)	111	81	90	102	107	105	100	95
L _{WA}	35 °	dB (A)	114	88	91	100	110	110	104	97



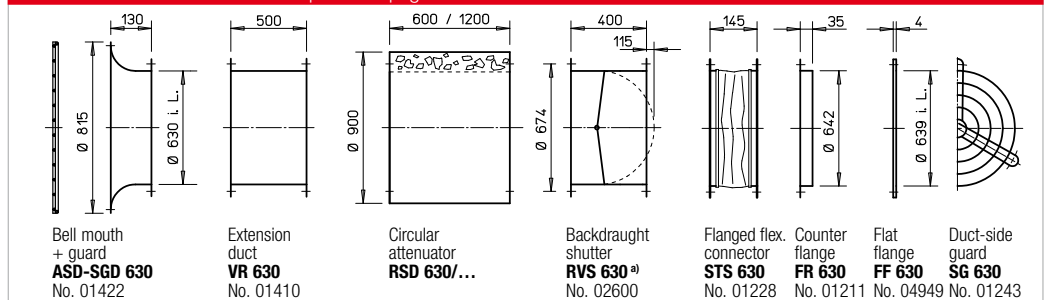
Performance curves AVD 630/4

n=1450 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA}	15 °	dB (A)	92	61	78	87	88	84	78	70
L _{WA}	25 °	dB (A)	92	67	80	88	87	84	80	75
L _{WA}	35 °	dB (A)	96	67	79	91	92	88	82	77
L _{WA}	45 °	dB (A)	99	70	83	96	94	93	86	80

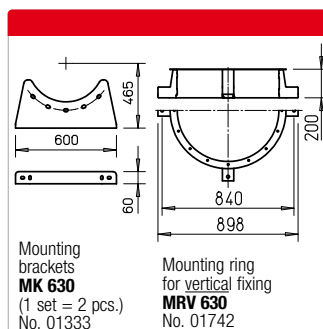


Accessories for AVD RK Description see page 163 ff.



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 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
SDD 2	01453	SDZ 2	01455
SDD 2	01453	SDZ 2	01455



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
Mounting accessories	160 ff.
Attenuators	168
Gas warning systems, switch and control technology	170 ff.
Frequency inverter	180 ff.