AMD / B AMD 400



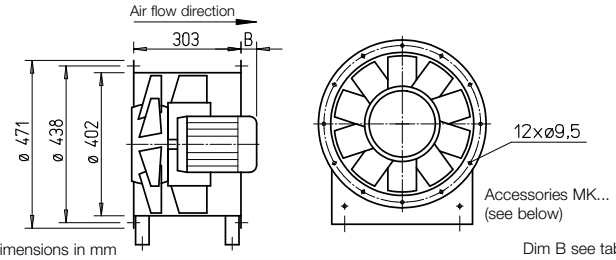
60 °C F300 F400

Certification
The smoke ventilation fans B AMD have been tested according to DIN EN 12101-3.
Certificate of performance reliability:
F300: 0036-CPR-RG05-18
F400: 0036-CPR-RG05-19

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Special designs
Special design with inspection open. (add. cost) upon request.

Dimensions AMD / B AMD 400



All dimensions in mm
Dim B see table

Description, Installation, Casing, Air flow direction, etc.
see page 60.

Impeller
- ☐ Hub and blades made from corrosion-resistant aluminium alloy. Ten aerodynamically profiled blades achieve the achieve high levels of efficiency and pressure ratings together with the guide vane.
- ☐ Dynamically balanced, quality class 6.3 for low-vibration operation.
- ☐ Blades can be steplessly adjusted in the factory.

Motor
- ☐ Series AMD: Direct through efficient IE3 standard three phase motor. Pole-switching fans with IEC standard motor. Protection class IP55, insulation class F.
- ☐ Series B AMD: Direct through efficient IE3 three phase motor (smoke extraction motors F300 or F400). Pole-switching fans with IEC standard motor. Protection class IP55. Insulation class H. Fire-resistant external cable with sheathing.

Motor protrusion
For some types, the motor protrudes over the casing. Protrusion dimension B in mm must be observed according to the type table.

Motor protection
All types have PTC resistors from the terminal box. This must be bridged in smoke extraction mode for B AMD models.

Electrical connection
- ☐ Series AMD: Standard plastic terminal box (protection class IP55), mounted to outside of duct.
- ☐ Series B AMD: Standard aluminium die-cast terminal box (protection class IP55), mounted to outside of duct.

Air flow temperatures
- ☐ Series AMD: Suitable for supply and extract ventilation from -20 °C to +60 °C continuous temperature. Types for higher air flow temperatures upon request.
- ☐ Series B AMD: Like series AMD, but also for smoke extraction according to the temperature classification up to 300 °C/120 min. and 400 °C/120 min.

Double pressure

Mounting package MP-Z for two-stage Z unit
For arrangement of two identical fans in a row, for highest pressure ratings.
Scope of delivery: Extension ducts (2 pcs.) and assembly kit.
Weight: 12 kg

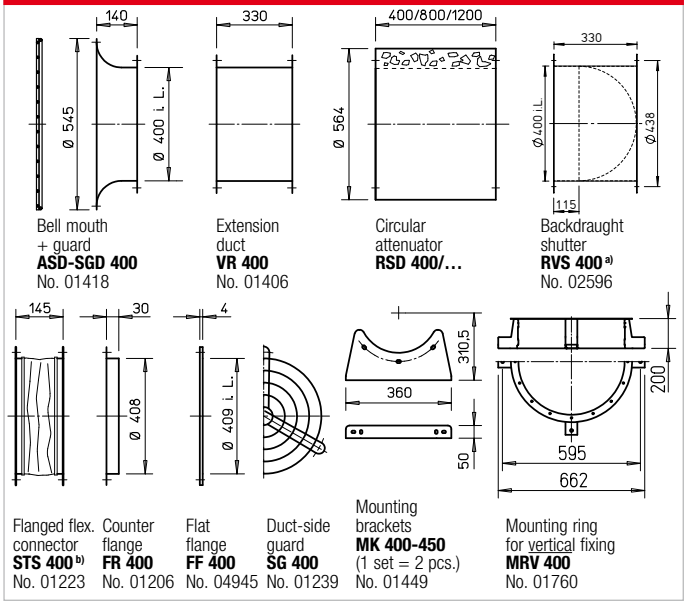
MP-Z 400 Ref. no. 04905

Double volume

Mounting package MP-P for parallel P unit
For arrangement of two identical fans side by side, for highest flow rates. Scope of delivery: Extension ducts, backdraught shutter, mounting rails (2 pcs. each), mounting brackets (4 pcs.) and assembly kits. Weight: 35 kg

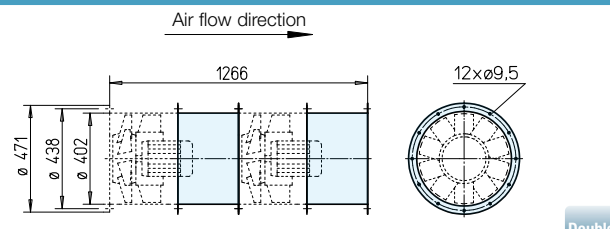
MP-P 400 Ref. no. 04889

Accessories for AMD / B AMD 400



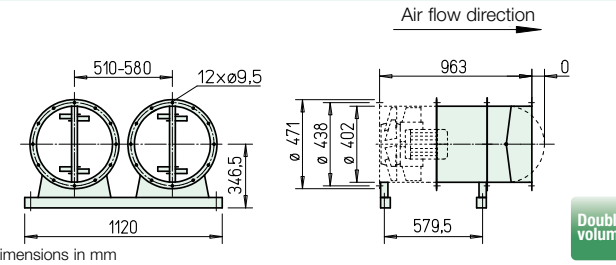
Bell mouth + guard **ASD-SGD 400** No. 01418
Extension duct **VR 400** No. 01406
Circular attenuator **RSD 400/...**
Backdraught shutter **RVS 400** [a] No. 02596
Flanged flex. connector **STS 400** [b] No. 01223
Counter flange **FR 400** No. 01206
Flat flange **FF 400** No. 04945
Duct-side guard **SG 400** No. 01239
Mounting brackets **MK 400-450** (1 set = 2 pcs.) No. 01449
Mounting ring for vertical fixing **MRV 400** No. 01760

Dimensions MP-Z 400



All dimensions in mm
Double pressure

Dimensions MP-P 400



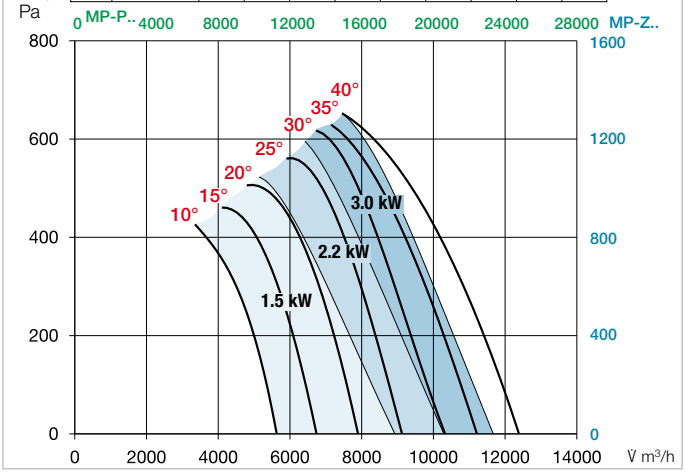
All dimensions in mm
Double volume

[a] Backdraught shutter, motorised, for ventilation, see main Helios catalogue. [b] Type for B AMD: STSB 400 F400, No. 14743

Performance curves AMD / B AMD 400/2

n=2890 1/min

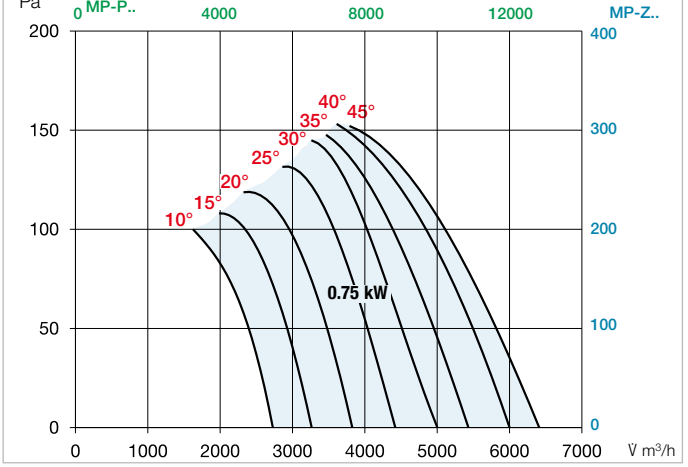
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	100	73	85	93	96	95	90	80
L_{WA}	20°	dB(A)	101	74	86	94	97	96	91	82
L_{WA}	30°	dB(A)	103	76	88	96	99	98	93	83
L_{WA}	40°	dB(A)	104	77	89	97	100	99	94	84



Performance curves AMD / B AMD 400/4

n=1400 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	83	63	73	78	79	75	68	56
L_{WA}	20°	dB(A)	84	64	74	79	80	76	69	57
L_{WA}	30°	dB(A)	86	66	76	81	82	78	71	59
L_{WA}	40°	dB(A)	87	67	77	82	83	79	72	60



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Special designs	
Special design with inspection open. (add. cost) upon request.	

Accessory details	Page
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Gas warning systems, switch and control technology	174 ff.
Frequency inverters	184 ff.

Type	Ref. no.	Speed	Nominal motor power (output)	Nominal voltage	Nominal current	Dim. B motor protrusion	Wiring diagram	max. air flow temp.[1]	Net weight approx.	Full motor protection or Smoke exhaust fan control system		Anti-vibration mounts[2] Pressure		Tensile	
		min⁻¹	kW	V	A	mm	No.	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
60° **Three phase motor, 400 V, 50 Hz, protection class IP55**										Full motor protection					
AMD 400/4 0,75 kW	03102	1430	0.75	400	1.8	80	796	60	32	**MSA**	01289	**SDD 1**	01452	**SDZ 1**	01454
AMD 400/2 1,5 kW	03098	2890	1.5	400	3.1	130	796	60	35	**MSA**	01289	**SDD 1**	01452	**SDZ 1**	01454
AMD 400/2 2,2 kW	03099	2890	2.2	400	4.3	150	796	60	39	**MSA**	01289	**SDD 1**	01452	**SDZ 1**	01454
AMD 400/2 3 kW	03100	2895	3	400[4]	5.7	200	776	60	46	**MSA**	01289	**SDD 1**[3]	01452	**SDZ1**[3]	01454
60° **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
AMD 400/4/2 0,4/1,9 kW	03101	1390/2850	0.4/1.9	400	1.5/4.2	130	777	60	43	—		**SDD 1**	01452	**SDZ 1**	01454
AMD 400/4/2 0,65/2,5 kW	03104	1380/2855	0.65/2.5	400	2.0/5.0	170	777	60	46	—		**SDD 1**[3]	01452	**SDZ 1**[3]	01454
AMD 400/4/2 0,8/3,1 kW	03105	1380/2860	0.8/3.1	400	2.1/6.1	170	777	60	46	—		**SDD 1**[3]	01452	**SDZ 1**[3]	01454
F300 **Three phase motor, 400 V, 50 Hz, protection class IP55**										Smoke exhaust fan control system					
B AMD 400/4 0,75 kW F300	03350	1430	0.75	400	1.8	59	776	60/300	34	**EVS-D 001**	04594	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/2 1,5 kW F300	03346	2890	1.5	400	3.1	78	776	60/300	38	**EVS-D 001**	04594	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/2 2,2 kW F300	03347	2890	2.2	400	4.3	103	776	60/300	40	**EVS-D 001**	04594	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943
B AMD 400/2 3 kW F300	03348	2895	3	400[4]	5.7	139	776	60/300	49	**EVS-SD 001**	04586	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943
F300 **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
B AMD 400/4/2 0,37/1,5 kW F300	03349	1430/2875	0.37/1.5	400	1.2/3.6	78	777	60/300	38	**EVS-DA 001**	04548	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/4/2 0,5/2,2 kW F300	03351	1420/2845	0.5/2.2	400	1.5/4.6	103	777	60/300	40	**EVS-DA 001**	04548	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943
B AMD 400/4/2 0,8/3,1 kW F300	03352	1430/2890	0.8/3.1	400	2.0/6.2	139	777	60/300	51	**EVS-DA 001**	04548	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943
F400 **Three phase motor, 400 V, 50 Hz, protection class IP55**															
B AMD 400/4 0,75 kW F400	03195	1430	0.75	400	1.8	59	776	60/400	33	**EVS-D 001**	04594	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/2 1,5 kW F400	03188	2890	1.5	400	3.1	78	776	60/400	39	**EVS-D 001**	04594	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/2 2,2 kW F400	03189	2890	2.2	400	4.3	103	776	60/400	39	**EVS-D 001**	04594	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/2 3 kW F400	03190	2895	3	400[4]	5.7	139	776	60/400	52	**EVS-SD 001**	04586	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943
F400 **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
B AMD 400/4/2 0,37/1,5 kW F400	03191	1430/2875	0.37/1.5	400	1.2/3.6	78	777	60/400	40	**EVS-DA 001**	04548	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/4/2 0,5/2,2 kW F400	03196	1420/2845	0.5/2.2	400	1.5/4.6	102	777	60/400	45	**EVS-DA 001**	04548	**SDD 1 F**	01942	**SDZ 1 F**	01943
B AMD 400/4/2 0,8/3,1 kW F400	03197	1430/2890	0.8/3.1	400	2.0/6.2	139	777	60/400	51	**EVS-DA 001**	04548	**SDD 1 F**[3]	01942	**SDZ 1 F**[3]	01943

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

[1] For ventilation / smoke extraction (once 120 min.).

[2] For Z/P version due to higher total weight Type allocation according to tables on page 157.

[3] Extension duct VR.. required over the motor protrusion.

[4] Y/Δ start-up.