

AMD / B AMD 400



■ **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.

■ **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

■ **Information**

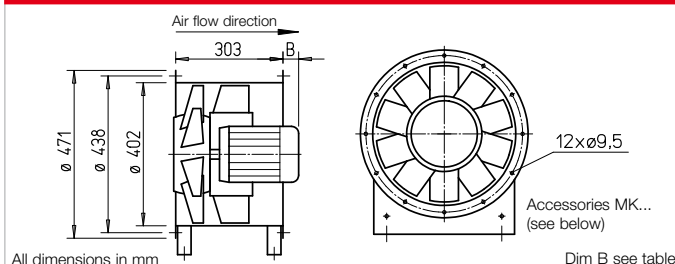
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 Project planning information 10 ff.

■ **Special designs**

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

Dimensions AMD / B AMD 400



■ **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

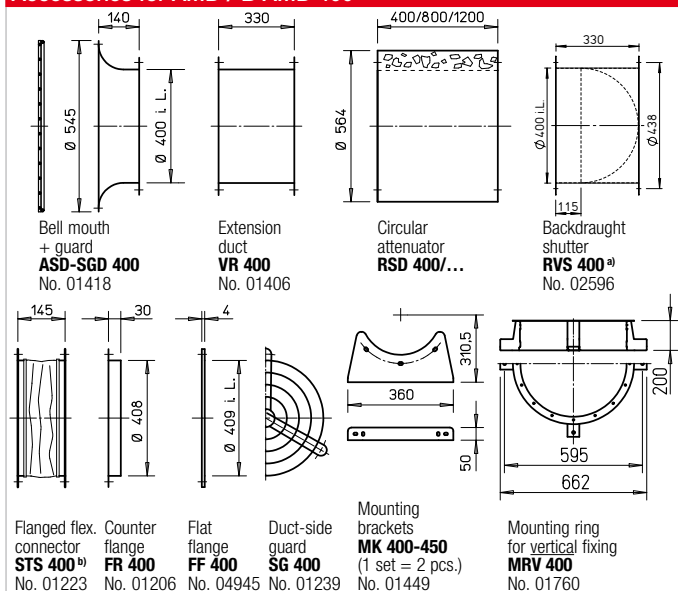
■ **Mounting package MP-P for parallel P unit**

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

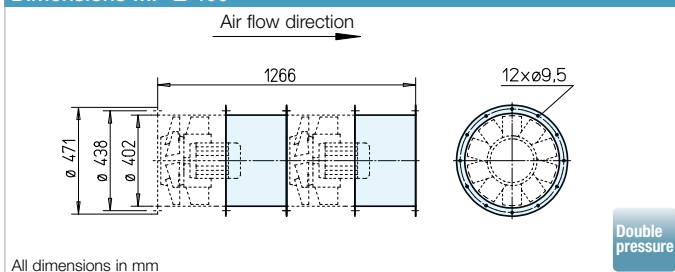
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Accessories for AMD / B AMD 400

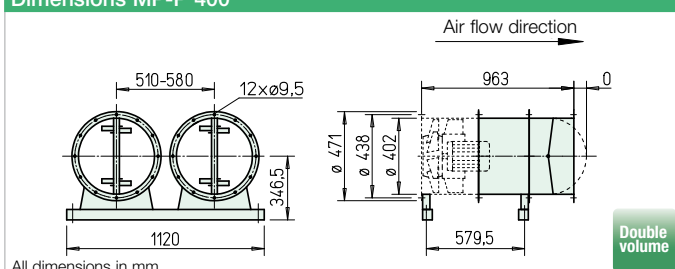


a) Backdraught shutter, motorised, for ventilation, see main Helios catalogue. b) Type for B AMD: STSB 400 F400, No. 14743

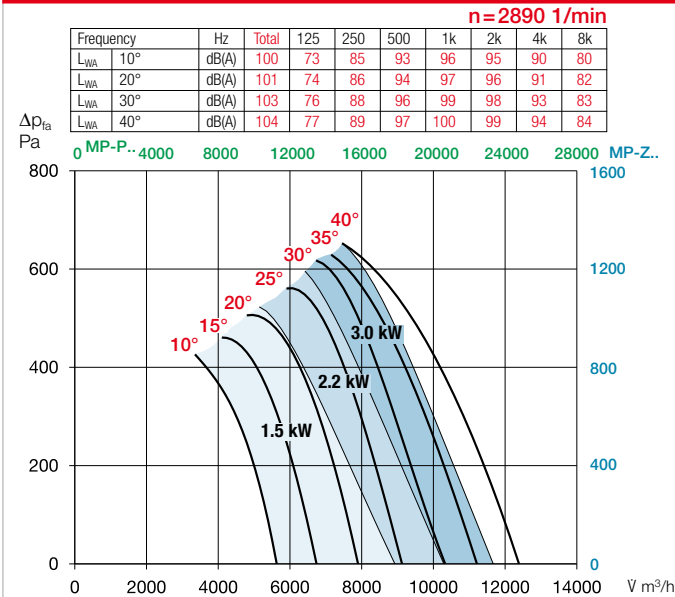
Dimensions MP-Z 400



Dimensions MP-P 400

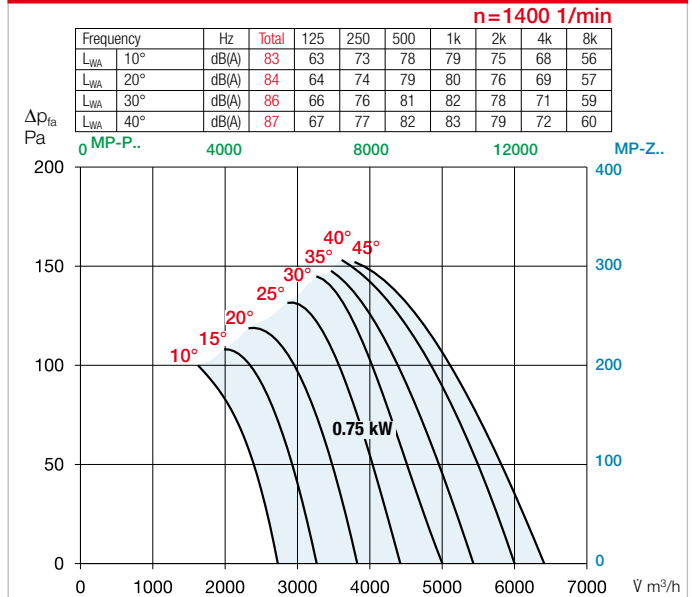


Performance curves AMD / B AMD 400/2



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Special designs		Gas warning systems, switch and control technology	174 ff.
Special design with inspection open. (add. cost) upon request.		Frequency inverters	184 ff.

Performance curves AMD / B AMD 400/4



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⁾			
		min ⁻¹	kW	V	A	mm	No.	+°C	kg		Pressure	Tensile		
60° Three phase motor, 400 V, 50 Hz, protection class IP55										Full motor protection	Type	Ref. no.	Type	Ref. no.
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	SDZ 1 ³⁾	01454
60° Pole-switching, 2 speed, three phase motor, Dahlander winding Y/Δ, 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/Δ, 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/Δ, 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

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

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

³⁾ Extension duct VR.. required over the motor protrusion.

⁴⁾ Y/Δ start-up.