

AMD / B AMD 500



■ **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**

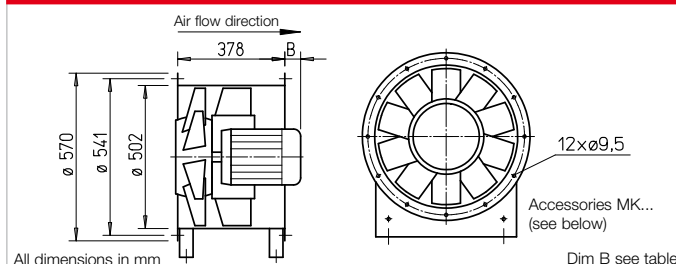
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Techn. description	60
Project planning information	10 ff.

■ **Special designs**

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

Dimensions AMD / B AMD 500



■ **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: 15 kg

MP-Z 500

Ref. no. 04907

Double volume

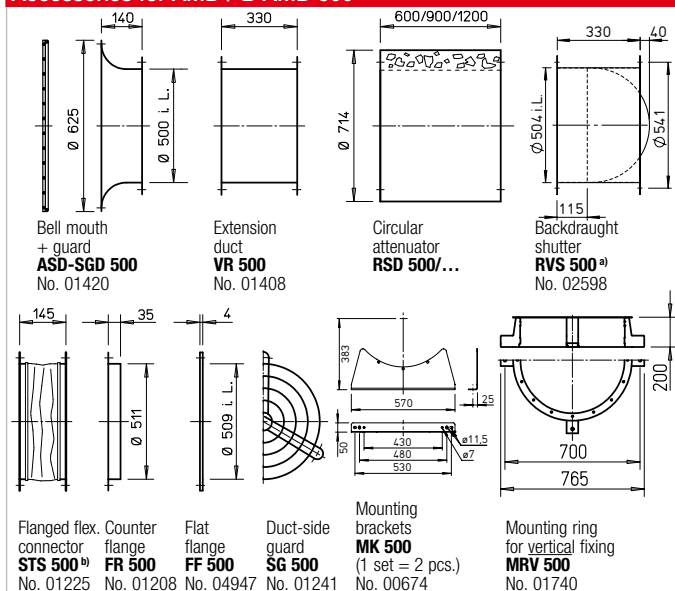
■ **Mounting package MP-P for parallel P unit**

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: 55 kg

MP-P 500

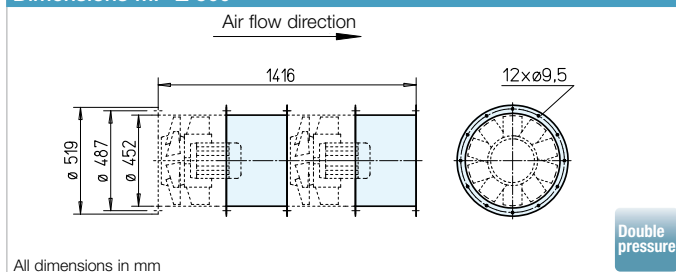
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Accessories for AMD / B AMD 500

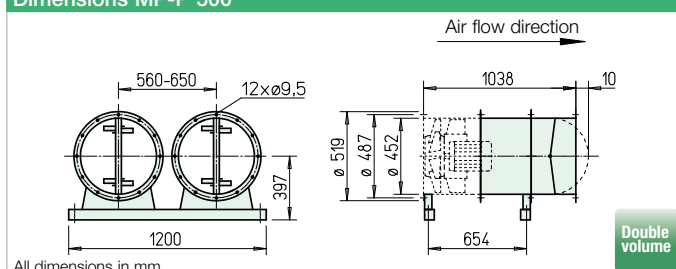


^{a)} Backdraught shutter, motorised, for ventilation, see main Helios catalogue. ^{b)} Type for B AMD: STSB 500 F400, No. 01915

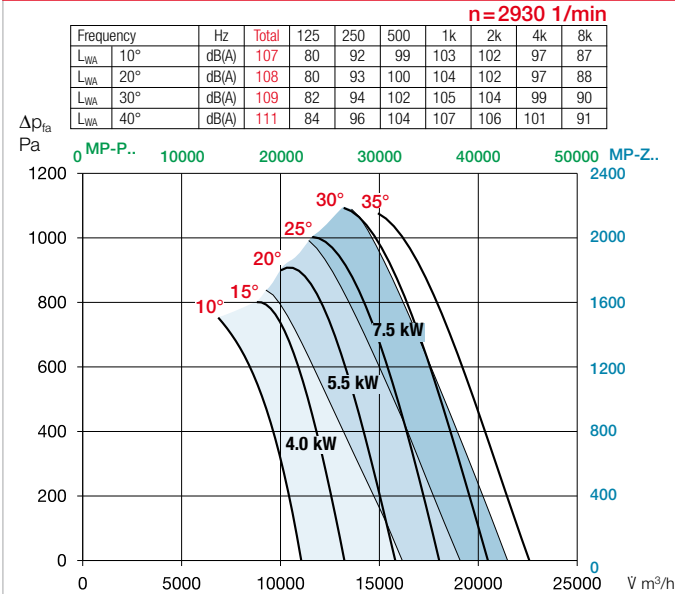
Dimensions MP-Z 500



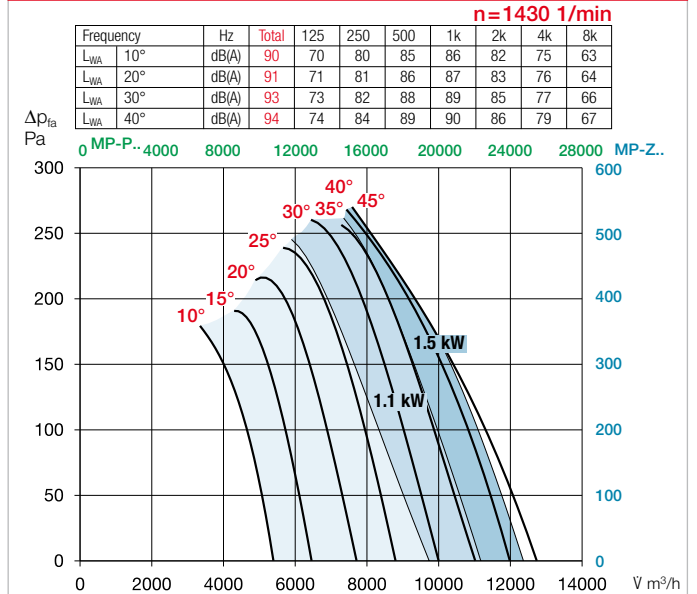
Dimensions MP-P 500



Performance curves AMD / B AMD 500/2



Performance curves AMD / B AMD 500/4



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	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
 Three phase motor, 400 V, 50 Hz, protection class IP55											Full motor protection				
AMD 500/4 0,75 kW	03118	1430	0.75	400	1.8	35	796	60	46	MSA 01289		SDD 1	01452	SDZ 1	01454
AMD 500/4 1,1 kW	03119	1440	1.1	400	2.5	60	796	60	50	MSA 01289		SDD 1	01452	SDZ 1	01454
AMD 500/4 1,5 kW	03122	1420	1.5	400	3.3	85	796	60	53	MSA 01289		SDD 1	01452	SDZ 1	01454
AMD 500/2 4 kW	03115	2910	4	400 ³⁾	7.4	175	776	60	83	MSA 01289		SDD 1	01452	SDZ 1	01454
AMD 500/2 5,5 kW	03116	2940	5.5	400 ³⁾	10.1	180	776	60	97	MSA 01289		SDD 2 ⁴⁾	01453	SDZ 2 ⁴⁾	01455
AMD 500/2 7,5 kW	03117	2930	7.5	400 ³⁾	14.1	220	776	60	102	MSA 01289		SDD 2 ⁴⁾	01453	SDZ 2 ⁴⁾	01455
 Pole-switching, 2 speed, three phase motor, Dahlander winding  , 400 V, 50 Hz, protection class IP55															
AMD 500/8/4 0,22/1 kW	03275	645/1390	0.22/1.0	400	0.9/2.4	60	777	60	55	—		SDD 1	01452	SDZ 1	01454
AMD 500/8/4 0,3/1,5 kW	03276	645/1390	0.3/1.5	400	1.1/3.0	85	777	60	58	—		SDD 1	01452	SDZ 2	01455
AMD 500/4/2 1,4/5,9 kW	03273	1400/2900	1.4/5.9	400	3.6/11.4	180	777	60	118	—		SDD 2 ⁴⁾	01453	SDZ 2 ⁴⁾	01455
AMD 500/4/2 2/8 kW	03274	1410/2900	2.0/8.0	400	4.7/14.9	220	777	60	129	—		SDD 2 ⁴⁾	01453	SDZ 2 ⁴⁾	01455
 Three phase motor, 400 V, 50 Hz, protection class IP55											Smoke exhaust fan control system				
B AMD 500/4 0,75 kW F300	03363	1430	0.75	400	1.8	18	776	60/300	48	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4 1,1 kW F300	03364	1440	1.1	400	2.5	37	776	60/300	54	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4 1,5 kW F300	03365	1440	1.5	400	3.3	62	776	60/300	57	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/2 4 kW F300	03360	2910	4	400 ³⁾	7.4	116	776	60/300	93	EVS-SD 001 04586		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/2 5,5 kW F300	03361	2940	5.5	400 ³⁾	10.1	153	776	60/300	110	EVS-SD 002 04585		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/2 7,5 kW F300	03362	2930	7.5	400 ³⁾	14.1	192	776	60/300	118	EVS-SD 003 04584		SDD 5 ⁴⁾	01924	SDZ 5 ⁴⁾	01925
 Pole-switching, 2 speed, three phase motor, Dahlander winding  , 400 V, 50 Hz, protection class IP55															
B AMD 500/8/4 0,3/1,2 kW F300	03368	715/1440	0.3/1.2	400	1.2/3.0	62	777	60/300	53	EVS-DA 001 04548		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/8/4 0,55/2,2 kW F300	03369	700/1430	0.55/2.2	400	2.0/4.8	98	777	60/300	63	EVS-DA 001 04548		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4/2 1,1/4,4 kW F300	03366	1440/2890	1.1/4.4	400	2.8/8.6	116	777	60/300	94	EVS-DA 053 04192		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/4/2 2/8 kW F300	03367	1470/2930	2.0/8.0	400	4.8/15.3	153	777	60/300	118	EVS-DA 054 04194		SDD 5 ⁴⁾	01924	SDZ 5 ⁴⁾	01925
 Three phase motor, 400 V, 50 Hz, protection class IP55															
B AMD 500/4 0,75 kW F400	03213	1430	0.75	400	1.63	18	776	60/400	47	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4 1,1 kW F400	03214	1440	1.1	400	2.4	37	776	60/400	55	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4 1,5 kW F400	03215	1440	1.5	400	3.26	62	776	60/400	57	EVS-D 001 04594		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/2 4 kW F400	03210	2910	4	400 ³⁾	7.72	116	776	60/400	95	EVS-SD 001 04586		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/2 5,5 kW F400	03211	2940	5.5	400 ³⁾	10.6	153	776	60/400	111	EVS-SD 002 04585		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/2 7,5 kW F400	03212	2930	7.5	400 ³⁾	13.9	192	776	60/400	122	EVS-SD 003 04584		SDD 5 ⁴⁾	01924	SDZ 5 ⁴⁾	01925
 Pole-switching, 2 speed, three phase motor, Dahlander winding  , 400 V, 50 Hz, protection class IP55															
B AMD 500/8/4 0,3/1,2 kW F400	03218	715/1430	0.3/1.2	400	1.29/2.92	62	777	60/400	53	EVS-DA 001 04548		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/8/4 0,55/2,2 kW F400	03219	700/1430	0.55/2.2	400	2.0/4.84	98	777	60/400	63	EVS-DA 001 04548		SDD 1 F	01942	SDZ 1 F	01943
B AMD 500/4/2 1,1/4,4 kW F400	03216	1440/2890	1.1/4.4	400	2.79/8.59	116	777	60/400	94	EVS-DA 053 04192		SDD 4 ⁴⁾	01944	SDZ 4 ⁴⁾	01945
B AMD 500/4/2 2/8 kW F400	03217	1470/2930	2.0/8.0	400	4.83/15.3	153	777	60/400	118	EVS-DA 054 04194		SDD 5 ⁴⁾	01924	SDZ 5 ⁴⁾	01925

The flow volume and pressure increase information is required to determine the pitch angle.
²⁾ For Z/P version due to higher total weight Type allocation according to tables on page 157.
⁴⁾ Extension duct VR.. required over the motor protrusion.

¹⁾ For ventilation / smoke extraction (once 120 min.).
³⁾ Y/Δ start-up.