

AMD / B AMD 1120



■ **Description, Installation, Casing, Air flow direction, etc.**
 see page 56.

■ **Impeller**

- Hub and blades made from corrosion-resistant aluminium alloy. Ten aerodynamically profiled blades achieve the highest level 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.

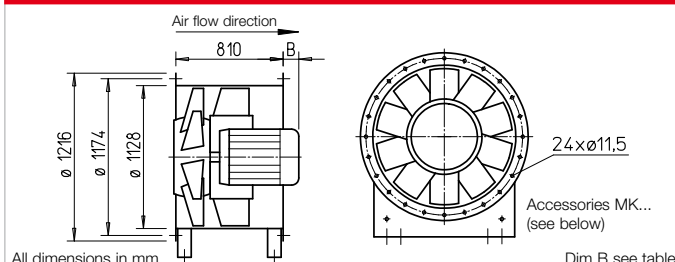
■ **Motor protection**

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

Dimensions AMD / B AMD 1120



■ **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: 85 kg

MP-Z 1120

Ref. no. 04914

Double volume

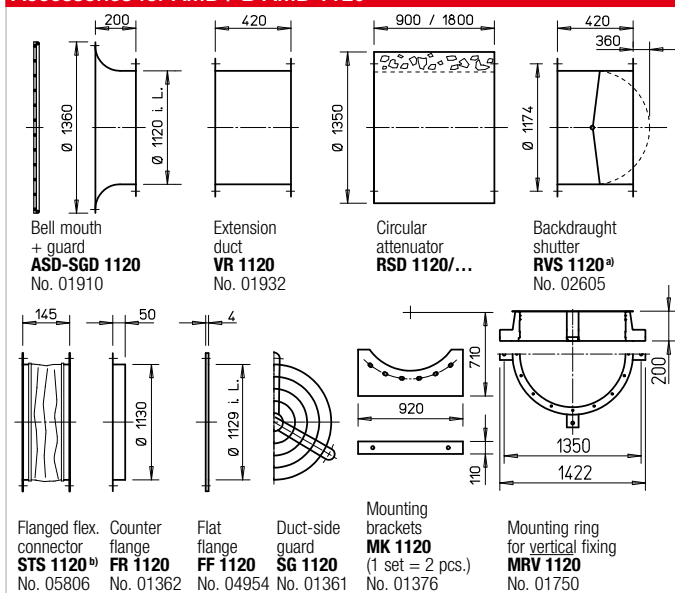
■ **Mounting package MP-P for parallel P unit**

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: 290 kg

MP-P 1120

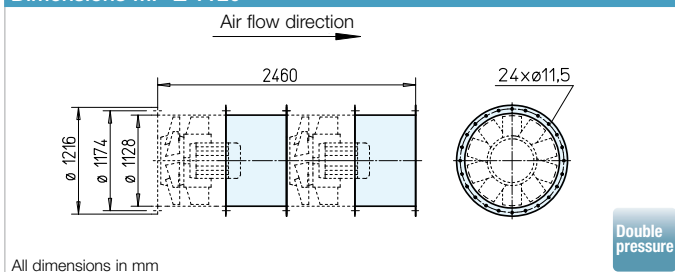
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Accessories for AMD / B AMD 1120

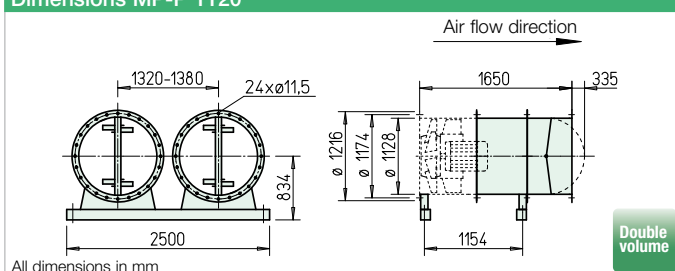


^{a)} Backdraught shutter, motorised, for ventilation, see main Helios catalogue. ^{b)} Type for B AMD: STSB 1120 F400, No. 01922

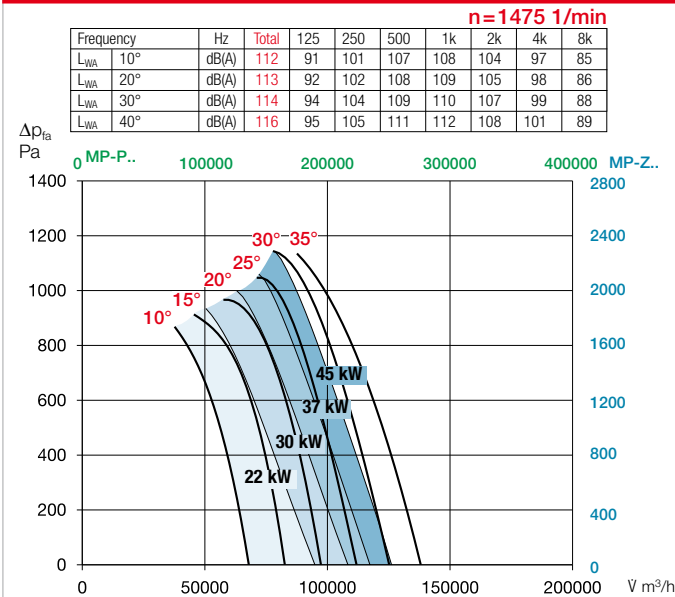
Dimensions MP-Z 1120



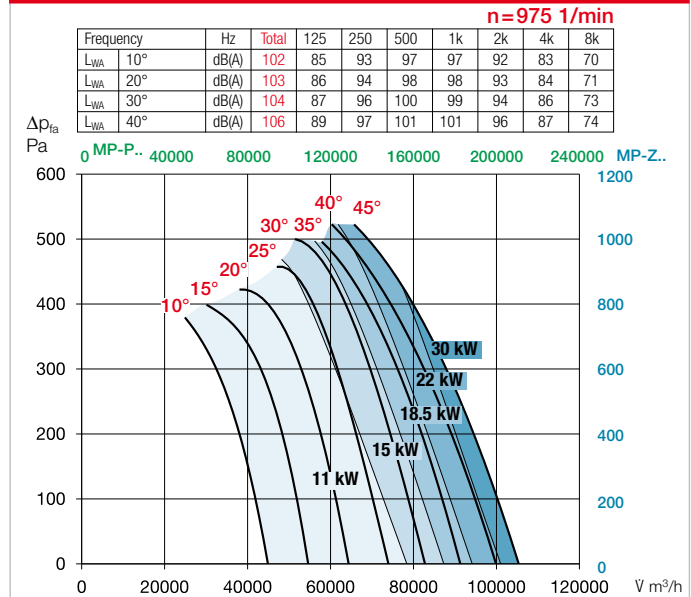
Dimensions MP-P 1120



Performance curves AMD / B AMD 1120/4



Performance curves AMD / B AMD 1120/6



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

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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.
🔄60° Three phase motor, 400 V, 50 Hz, protection class IP55											Full motor protection				
AMD 1120/6 11 kW	03899	975	11	400 ³⁾	21.9	25	776	60	400	MSA	01289	SDD 3	01367	SDZ 7	01929
AMD 1120/6 15 kW	03900	975	15	400 ³⁾	28.2	100	776	60	430	MSA	01289	SDD 3	01367	SDZ 7	01929
AMD 1120/6 18,5 kW	03901	980	18.5	400 ³⁾	35.9	150	776	60	489	MSA	01289	SDD 3	01367	SDZ 7	01929
AMD 1120/6 22 kW	03902	980	22	400 ³⁾	42.4	150	776	60	508	MSA	01289	SDD 3	01367	SDZ 8	01931
AMD 1120/6 30 kW	03903	985	30	400 ³⁾	56.0	190	776	60	544	MSA	01289	SDD 3	01367	SDZ 8	01931
AMD 1120/4 22 kW	03953	1470	22	400 ³⁾	41.0	100	776	60	484	MSA	01289	SDD 3	01367	SDZ 7	01929
AMD 1120/4 30 kW	03954	1480	30	400 ³⁾	57.1	150	776	60	535	MSA	01289	SDD 3	01367	SDZ 7	01929
AMD 1120/4 37 kW	03955	1480	37	400 ³⁾	66.8	165	776	60	592	MSA	01289	SDD 3 ⁴⁾	01367	SDZ 8 ⁴⁾	01931
AMD 1120/4 45 kW	03956	1475	45	400 ³⁾	80.9	190	776	60	614	MSA	01289	SDD 3 ⁴⁾	01367	SDZ 8 ⁴⁾	01931
🔄60° Pole-switching, 2 speed, three phase motor, Dahlander winding γ/Δ , 400 V, 50 Hz, protection class IP55															
AMD 1120/8/4 4/16 kW	03924	720/1460	4.0/16.0	400	10.6/30.9	60	777	60	405	—	—	SDD 3	01367	SDZ 7	01929
AMD 1120/8/4 5/19,5 kW	03925	720/1470	5.0/19.5	400	12.9/37.2	100	777	60	490	—	—	SDD 3	01367	SDZ 7	01929
AMD 1120/8/4 7,5/29 kW	03926	720/1470	7.5/29.5	400	18.9/54.7	150	777	60	535	—	—	SDD 3	01367	SDZ 8	01931
AMD 1120/8/4 9,5/40 kW	03927	725/1475	9.5/40.0	400	24.4/72.1	190	777	60	590	—	—	SDD 3 ⁴⁾	01367	SDZ 8 ⁴⁾	01931
🔥F300 🔥F400 Three phase motor, 400 V, 50 Hz, protection class IP55											F300/F400 Smoke exhaust fan control system				
F300/F400											F300/F400				
B AMD 1120/6 11 kW	05921/03818	975	11	400 ³⁾	21.9	9/15	776	60/400	395/400	EVS-SD 004	04583	SDD 7	01928	SDZ 7	01929
B AMD 1120/6 15 kW	05922/03819	975	15	400 ³⁾	28.2	69/75	776	60/400	440/445	EVS-SD 005	04582	SDD 7	01928	SDZ 7	01929
B AMD 1120/6 18,5 kW	05923/03820	980	18.5	400 ³⁾	35.9	134/140	776	60/400	470/475	EVS-SD 006	04581	SDD 7	01928	SDZ 7	01929
B AMD 1120/6 22 kW	05924/03821	980	22	400 ³⁾	42.4	134/140	776	60/400	480/485	EVS-SD 007	04580	SDD 8	01930	SDZ 8	01931
B AMD 1120/6 30 kW	05956/03822	985	30	400 ³⁾	56.0	223/230	776	60/400	635/640	EVS-SD 008	04579	SDD 8	01930	SDZ 8	01931
B AMD 1120/4 22 kW	05986/03619	1470	22	400 ³⁾	41.0	69/75	776	60/400	455/460	EVS-SD 007	04580	SDD 7	01928	SDZ 7	01929
B AMD 1120/4 30 kW	05988/03620	1480	30	400 ³⁾	57.1	134/140	776	60/400	498/503	EVS-SD 008	04579	SDD 8	01930	SDZ 8	01931
B AMD 1120/4 37 kW	05989/03621	1480	37	400 ³⁾	66.8	223/190	776	60/400	635/640	EVS-SD 009	04578	SDD 8 ⁴⁾	01930	SDZ 8 ⁴⁾	01931
B AMD 1120/4 45 kW	05990/03622	1475	45	400 ³⁾	80.9	223/190	776	60/400	670/675	EVS-SD 009	04578	SDD 8 ⁴⁾	01930	SDZ 8 ⁴⁾	01931
🔥F300 🔥F400 Pole-switching, 2 speed, three phase motor, Dahlander winding γ/Δ , 400 V, 50 Hz, protection class IP55											F300/F400				
F300/F400											F300/F400				
B AMD 1120/8/4 4,3/17 kW	06030/03962	730/1475	4.3/17.0	400	12.7/33.4	31/35	777	60/400	432/437	EVS-DA 055	04196	SDD 7	01928	SDZ 7	01929
B AMD 1120/8/4 5/20 kW	06031/03963	730/1470	5.0/20.0	400	14.1/38.6	69/75	777	60/400	447/452	EVS-DA 004	04545	SDD 7	01928	SDZ 7	01929
B AMD 1120/8/4 6,5/28 kW	06037/03964	735/1480	6.5/28.0	400	18.0/52.0	134	777	60/400	505/510	EVS-DA 056	04202	SDD 8	01930	SDZ 8	01931
B AMD 1120/8/4 9,2/37 kW	06038/03965	740/1485	9.2/37.0	400	25.4/74.2	223	777	60/400	630/635	EVS-DA 057	04209	SDD 8 ⁴⁾	01930	SDZ 8 ⁴⁾	01931
B AMD 1120/8/4 11/44 kW	06039/03966	740/1480	11.0/44.0	400	27.2/84.1	223	777	60/400	695/700	EVS-DA 057	04209	SDD 8 ⁴⁾	01930	SDZ 8 ⁴⁾	01931

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⁾ γ/Δ start-up.