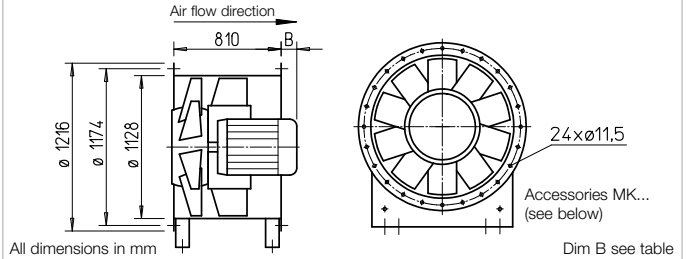
AMD / B AMD 1120



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

Dimensions AMD / B AMD 1120



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 on 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: 85 kg

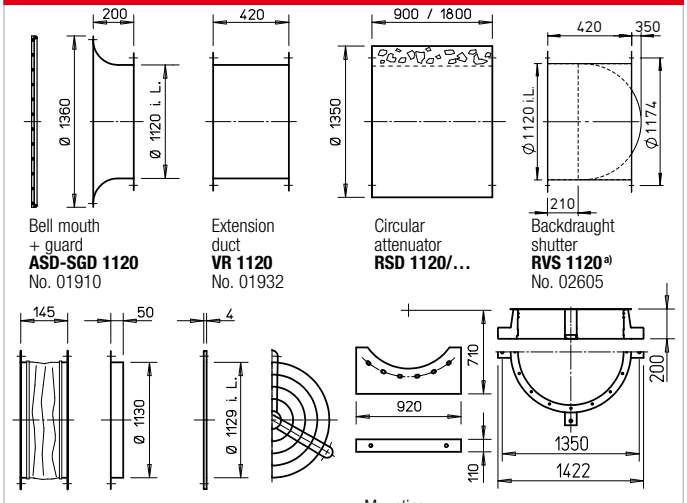
MP-Z 1120 Ref. no. 04914

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

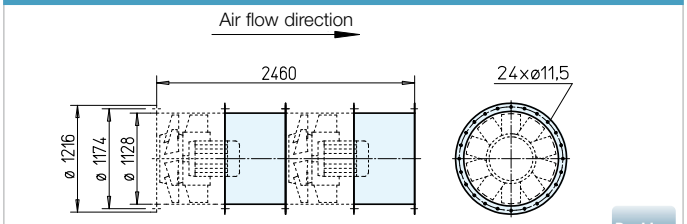
MP-P 1120 Ref. no. 04898

Accessories for AMD / B AMD 1120



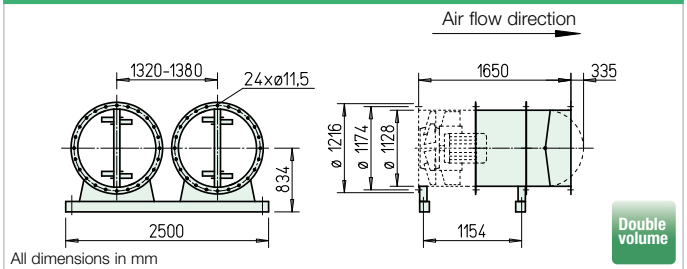
Bell mouth + guard **ASD-SGD 1120** No. 01910
Extension duct **VR 1120** No. 01932
Circular attenuator **RSD 1120/...**
Backdraught shutter **RVS 1120**[a] No. 02605
Flanged flex. connector **STS 1120**[b] No. 05806
Counter flange **FR 1120** No. 01362
Flat flange **FF 1120** No. 04954
Duct-side guard **SG 1120** No. 01361
Mounting brackets **MK 1120** (1 set = 2 pcs.) No. 01376
Mounting ring for vertical fixing **MRV 1120** No. 01750

Dimensions MP-Z 1120



All dimensions in mm — Double pressure

Dimensions MP-P 1120



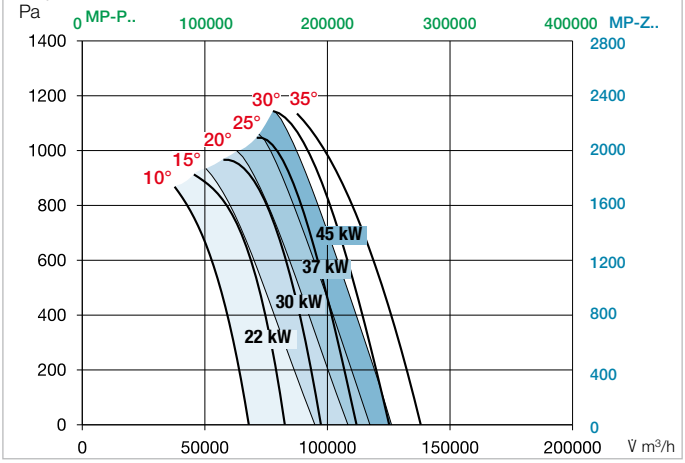
All dimensions in mm — Double volume

[a] Backdraught shutter, motorised, for ventilation, see main Helios catalogue. [b] Type for B AMD: STSB 1120 F400, No. 01922

Performance curves AMD / B AMD 1120/4

n=1475 1/min

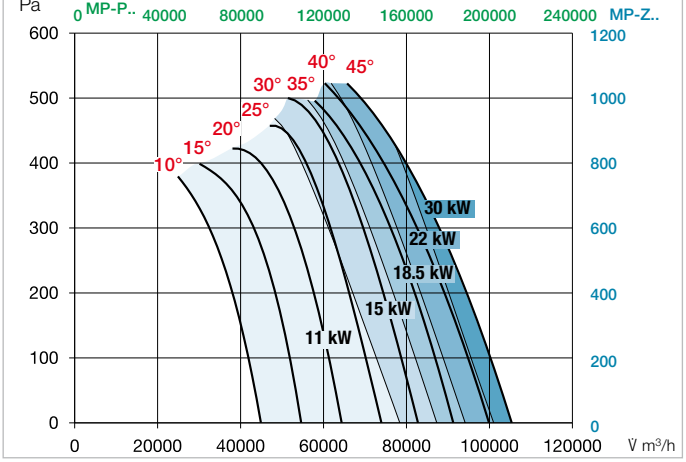
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	112	91	101	107	108	104	97	85
L_{WA}	20°	dB(A)	113	92	102	108	109	105	98	86
L_{WA}	30°	dB(A)	114	94	104	109	110	107	99	88
L_{WA}	40°	dB(A)	116	95	105	111	112	108	101	89



Performance curves AMD / B AMD 1120/6

n=975 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	102	85	93	97	97	92	83	70
L_{WA}	20°	dB(A)	103	86	94	98	98	93	84	71
L_{WA}	30°	dB(A)	104	87	96	100	99	94	86	73
L_{WA}	40°	dB(A)	106	89	97	101	101	96	87	74



Information	Page
Techn. description	60
Project planning information	10 ff.

Special designs

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

Accessory details	Page
Mounting accessories	167 ff.
Attenuators	172 ff.
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 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 Y/YY, 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					F300/F400			F300/F400	Smoke exhaust fan control system					
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 Y/YY, 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.

[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] Y/Δ start-up.

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