AMD / B AMD 710

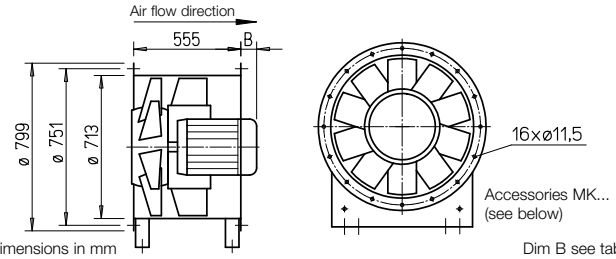


60 °C F300 F400

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

Accessory details	Page
Mounting accessories	161 ff.
Attenuators	166 ff.
Gas warning systems, switch and control technology	168 ff.
Frequency inverters	178 ff.

Dimensions AMD / B AMD 710



All dimensions in mm — Dim B see table

Description, Installation, Casing, Air flow direction, etc.
see page 46.

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 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: 43 kg

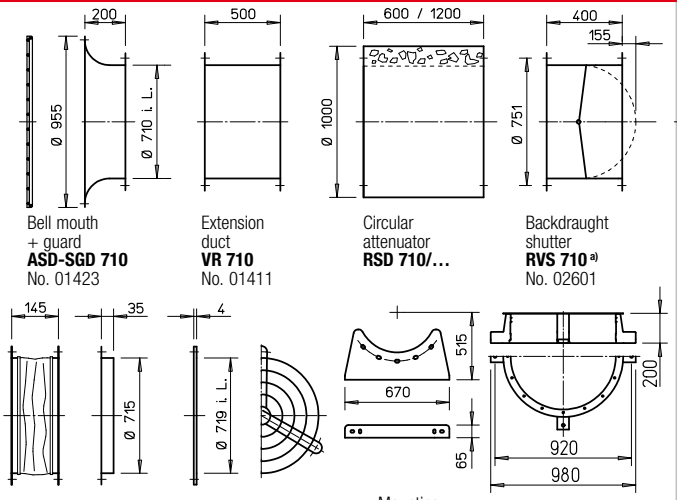
MP-Z 710 Ref. no. 04910

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: 145 kg

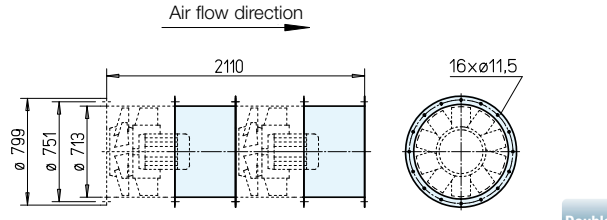
MP-P 710 Ref. no. 04894

Accessories for AMD / B AMD 710



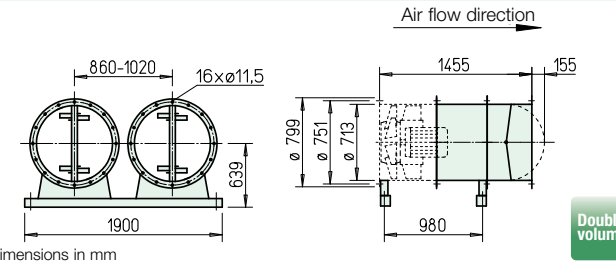
Bell mouth + guard **ASD-SGD 710** No. 01423
Extension duct **VR 710** No. 01411
Circular attenuator **RSD 710/...**
Backdraught shutter **RVS 710** [a] No. 02601
Flanged flex. connector **STS 710** [b] No. 01229
Counter flange **FR 710** No. 01212
Flat flange **FF 710** No. 04950
Duct-side guard **SG 710** No. 01244
Mounting brackets **MK 710** (1 set = 2 pcs.) No. 01372
Mounting ring for vertical fixing **MRV 710** No. 01743

Dimensions MP-Z 710



All dimensions in mm — Double pressure

Dimensions MP-P 710



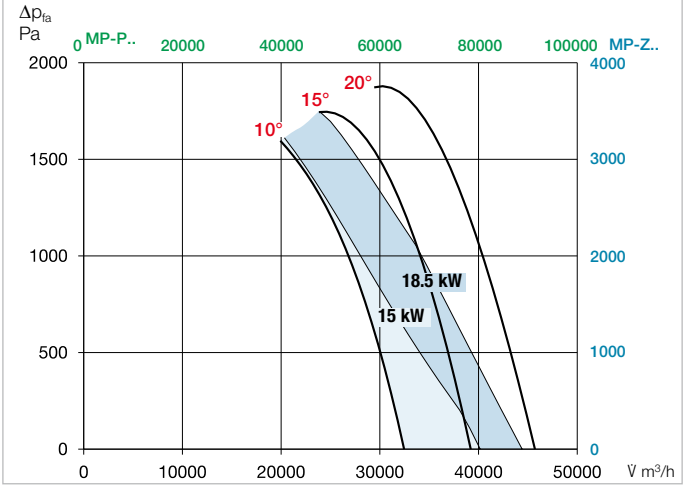
All dimensions in mm — Double volume

[a] Backdraught shutter, motorised, for ventilation, see main Helios catalogue. [b] Type for B AMD: STSB 710 F400, No. 01918

Performance curves AMD / B AMD 710/2

n=2950 1/min

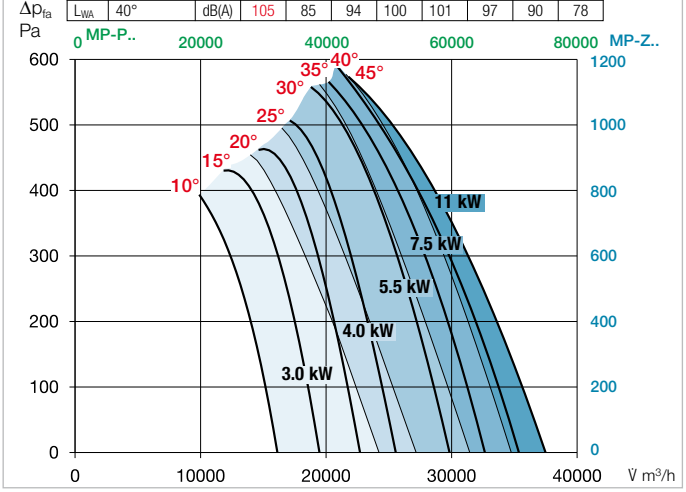
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	116	89	101	109	112	111	106	97
L_{WA}	20°	dB(A)	117	89	102	109	113	112	107	97



Performance curves AMD / B AMD 710/4

n=1465 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	10°	dB(A)	100	80	90	95	96	92	85	73
L_{WA}	20°	dB(A)	101	80	90	96	96	93	86	74
L_{WA}	30°	dB(A)	103	83	92	98	99	95	88	76
L_{WA}	40°	dB(A)	105	85	94	100	101	97	90	78



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 710/2 15 kW	05863	2945	15	400[3]	27.7	175	776	60	251	**MSA**	01289	**SDD 3**	01367	**SDZ 3**	01366
AMD 710/2 18.5 kW	05883	2945	18.5	400[3]	33.9	230	776	60	266	**MSA**	01289	**SDD 3**	01367	**SDZ 3**	01366
AMD 710/4 3 kW	03301	1455	3	400[3]	6.0	10	776	60	107	**MSA**	01289	**SDD 2**	01453	**SDZ 2**	01455
AMD 710/4 4 kW	03302	1500	4	400[3]	7.4	60	776	60	114	**MSA**	01289	**SDD 2**	01453	**SDZ 2**	01455
AMD 710/4 5.5 kW	03303	1470	5.5	400[3]	10.7	70	776	60	135	**MSA**	01289	**SDD 2**	01453	**SDZ 2**	01455
AMD 710/4 7.5 kW	03304	1460	7.5	400[3]	14.2	110	776	60	146	**MSA**	01289	**SDD 2**	01453	**SDZ 2**	01455
AMD 710/4 11 kW	03305	1470	11	400[3]	20.9	175	776	60	217	**MSA**	01289	**SDD 3**	01367	**SDZ 3**	01366
60° **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
AMD 710/8/4 0.9/3.2 kW	03306	680/1410	0.9/3.2	400	3.2/7.1	60	777	60	124	—		**SDD 2**	01453	**SDZ 2**	01455
AMD 710/8/4 1.1/4.5 kW	03307	680/1435	1.1/4.5	400	3.6/9.3	70	777	60	150	—		**SDD 2**	01453	**SDZ 3**	01366
AMD 710/8/4 1.5/6.3 kW	03308	680/1440	1.5/6.3	400	4.5/12.3	110	777	60	162	—		**SDD 2**	01453	**SDZ 3**	01366
AMD 710/8/4 2.0/8.9 kW	03309	690/1450	2.0/8.9	400	5.3/17.8	175	777	60	227	—		**SDD 3**	01367	**SDZ 3**	01366
F300 **Three phase motor, 400 V, 50 Hz, protection class IP55**										Smoke exhaust fan control system					
B AMD 710/2 15 kW F300	05914	2945	15.0	400[3]	27.7	158	776	60/300	225	**EVS-SD 005**	04582	**SDD 6**	01926	**SDZ 6**	01927
B AMD 710/2 18.5 kW F300	05915	2945	18.5	400[3]	33.9	224	776	60/300	273	**EVS-SD 006**	04581	**SDD 6**	01926	**SDZ 6**	01927
B AMD 710/4 3 kW F300	03420	1455	3	400[3]	6.0	0	776	60/300	116	**EVS-SD 001**	04586	**SDD 4**	01944	**SDZ 4**	01945
B AMD 710/4 4 kW F300	03421	1460	4	400[3]	7.9	4	776	60/300	130	**EVS-SD 001**	04586	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 5.5 kW F300	03422	1470	5.5	400[3]	10.7	41	776	60/300	145	**EVS-SD 002**	04585	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 7.5 kW F300	03423	1460	7.5	400[3]	14.2	80	776	60/300	152	**EVS-SD 003**	04584	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 11 kW F300	03424	1470	11	400[3]	20.9	158	776	60/300	187	**EVS-SD 004**	04583	**SDD 5**	01924	**SDZ 5**	01925
F300 **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
B AMD 710/8/4 0.7/2.8 kW F300	03507	710/1440	0.7/2.8	400	2.5/6.0	0	777	60/300	116	**EVS-DA 001**	04548	**SDD 4**	01944	**SDZ 4**	01945
B AMD 710/8/4 1.0/3.8 kW F300	03508	710/1440	1.0/3.8	400	2.9/7.9	4	777	60/300	126	**EVS-DA 001**	04548	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 1.3/5.0 kW F300	03509	735/1475	1.3/5.0	400	3.8/10.4	41	777	60/300	151	**EVS-DA 053**	04192	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 1.8/7.2 kW F300	03510	735/1475	1.8/7.2	400	5.3/15.0	80	777	60/300	164	**EVS-DA 002**	04547	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 3.0/11 kW F300	03511	730/1470	3.0/11.0	400	7.0/21.7	158	777	60/300	200	**EVS-DA 054**	04194	**SDD 6**	01926	**SDZ 6**	01927
F400 **Three phase motor, 400 V, 50 Hz, protection class IP55**															
B AMD 710/4 3.0 kW F400	03240	1455	3	400[3]	6.0	0	776	60/400	117	**EVS-SD 001**	04586	**SDD 4**	01944	**SDZ 4**	01945
B AMD 710/4 4.0 kW F400	03241	1460	4	400[3]	7.9	4	776	60/400	130	**EVS-SD 001**	04586	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 5.5 kW F400	03243	1470	5.5	400[3]	10.7	41	776	60/400	145	**EVS-SD 002**	04585	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 7.5 kW F400	03244	1460	7.5	400[3]	14.2	80	776	60/400	152	**EVS-SD 003**	04584	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/4 11 kW F400	03245	1470	11	400[3]	20.9	158	776	60/400	196	**EVS-SD 004**	04583	**SDD 6**	01926	**SDZ 6**	01927
F400 **Pole-switching, 2 speed, three phase motor, Dahlander winding Y/YY, 400 V, 50 Hz, protection class IP55**															
B AMD 710/8/4 0.7/2.8 kW F400	03246	710/1440	0.7/2.8	400	2.5/6.0	0	777	60/400	116	**EVS-DA 001**	04548	**SDD 4**	01944	**SDZ 4**	01945
B AMD 710/8/4 1.0/3.8 kW F400	03247	710/1440	1.0/3.8	400	2.9/7.9	4	777	60/400	127	**EVS-DA 001**	04548	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 1.3/5.0 kW F400	03248	735/1475	1.3/5.0	400	3.8/10.4	41	777	60/400	151	**EVS-DA 053**	04192	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 1.8/7.2 kW F400	03249	735/1475	1.8/7.2	400	5.3/15.0	80	777	60/400	164	**EVS-DA 002**	04547	**SDD 5**	01924	**SDZ 5**	01925
B AMD 710/8/4 3.0/11 kW F400	03250	730/1470	3.0/11.0	400	7.0/21.7	158	777	60/400	200	**EVS-DA 054**	04194	**SDD 6**	01926	**SDZ 6**	01927

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.