

VAR and B VAR 710 F300/F400



Casing

Duct with flanges on both sides DIN 24155 pt. 3. Welded construction, hot-dip galvanised. Welded guide vane with inner hub for mounting the flange motor, hot-dip galvanised.

Impeller

Optimised for high pressure and volume output. Special development with spatially curved hot-dip galvanised steel blades

Motor

Direct through IEC three phase motor.

Series VAR

Enclosed design IP54. With condensation drain holes upon request, installation type specification necessary when ordering for this purpose.

Series B VAR

Efficient IE3 three phase motor (smoke extraction motors F300 and F400). Pole-switching fans with IEC standard motor. Protection class IP55. Insulation class H. External cable with sheathing.

Motor protection

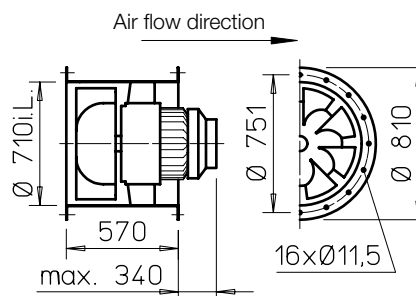
Series VAR

All types (except explosion-proof and pole-switching models) have PTC resistors. For effective motor protection, these must be wired to a full motor protection device (see type table). Motors without PTC resistors must be protected with an on-site motor-protective circuit-breaker.

Series B VAR

All types (except pole-switching) have PTC resistors as standard and must be protected with

Dimensions VAR and B VAR 710 F300/F400



All dim. in mm

a full motor protection device (MSA, Ref. no. 01289). This must be bridged in smoke extraction situation.

Series B VAR

Suitable for installation within and outside of the fire zone.

Electrical connection

Standard plastic terminal box (protection class IP54) (series VAR) or in temperature-resistant design (series B VAR), outside of duct.

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.

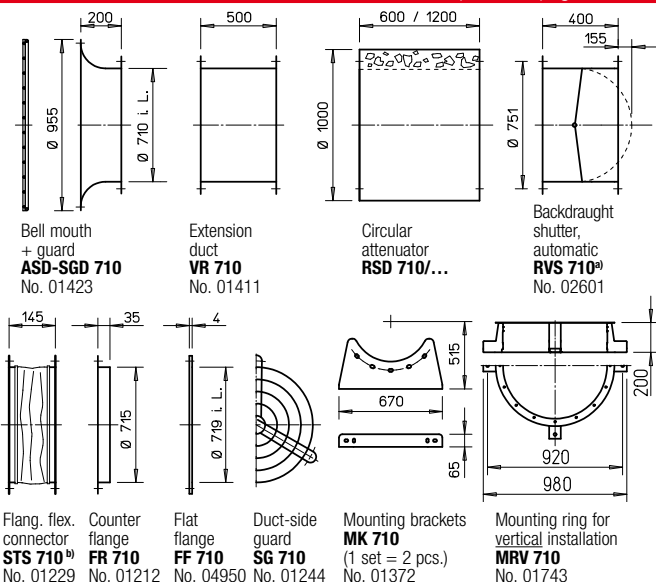
Scope of delivery: Extension ducts, backdraught shutter, mounting rails (2 pcs. each), mounting brackets (4 pcs.) and assembly kits.

Weight: 145 kg

MP-P 710

Ref. no. 04894

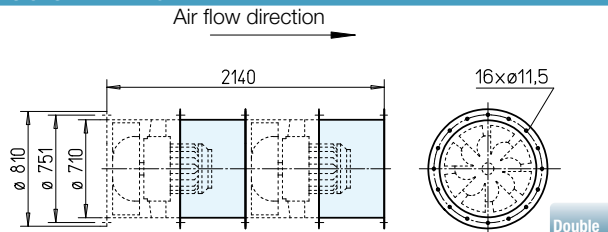
Accessories VAR + B VAR 710 F300/F400 Description see page 163 ff.



^{a)} Backdraught shutter, motorised, for ventilation, see main Helios catalogue

^{b)} Type for B VARD: STSB 710 F400, No. 01918

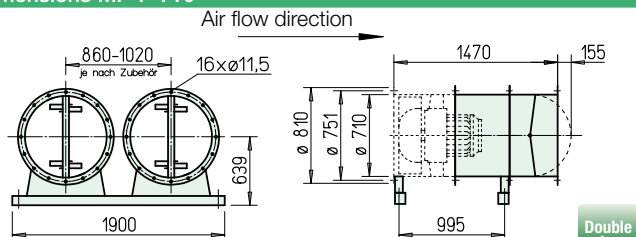
Dimensions MP-Z 710



All dim. in mm

Double pressure

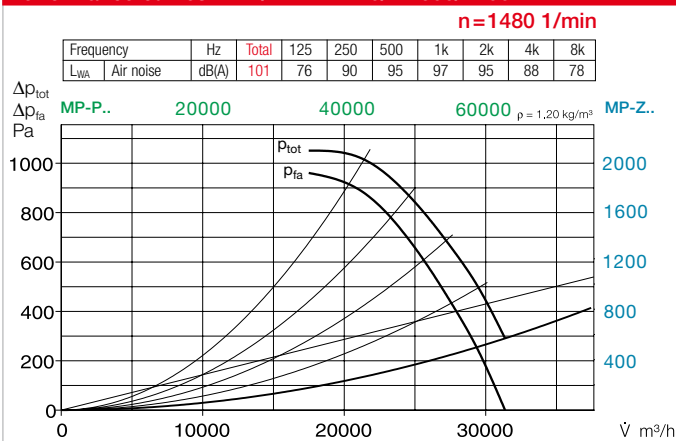
Dimensions MP-P 710



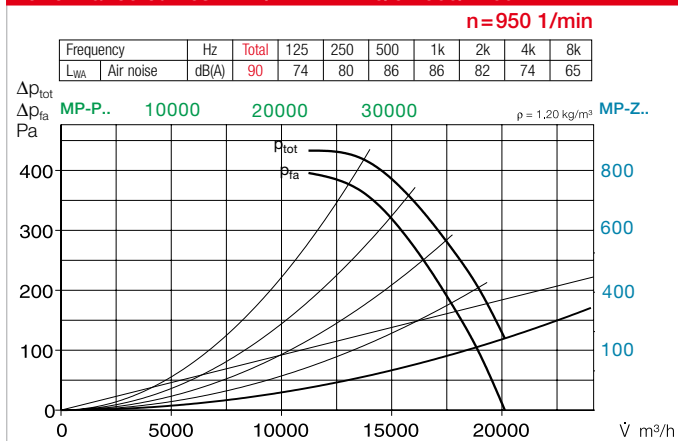
All dim. in mm

Double volume

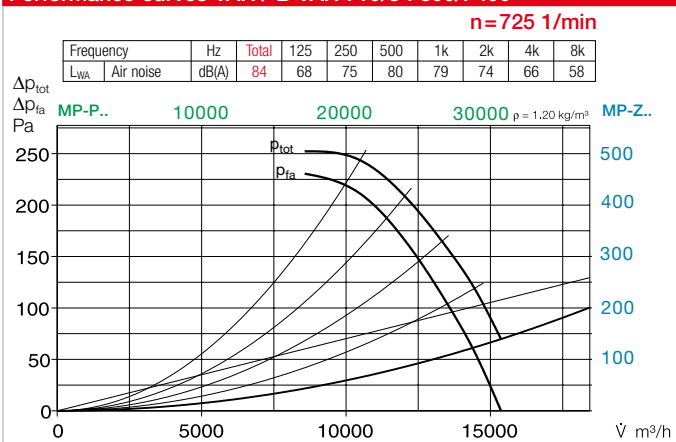
Performance curves VAR / B VAR 710/4 F300/F400



Performance curves VAR / B VAR 710/6 F300/F400



Performance curves VAR / B VAR 710/8 F300/F400



Certification

The smoke extraction fans B VARD have been tested according to DIN EN 12101-3. Certificate of performance reliability:
F300: 0036-CPR-RG05-01
F400: 0036-CPR-RG05-05

Information

Techn. description	84 f.
Project planning information	10 ff.
Accessory details	
Mounting accessories	163 ff.
Attenuator	168
Gas warning systems, switch and control technology	170 ff.

Safety information B VAR

Protection against accidental contact for impeller must be ensured by installation pursuant to DIN EN ISO 13857.

Noise levels

See information on sound power levels above the performance curves. The lower sound pressure level can be determined using the diagram on the "Technical information" page. Noise emissions and room acoustics see page 5.

Type	Ref. no.	Speed	Output free-blowing	Nom. motor power (output)	Nominal voltage	Stromauf- nahme bei Nominal voltage	An- schluss Schalt- plan	max. air flow temp. ⁴⁾ at nom. voltage	Net weight approx.	Frequency inverter		Full motor protection or Smoke exhaust fan control system		Anti-vibration mount ⁵⁾			
														Pressure	Tensile		
		min ⁻¹	V m³/h	kW	V	A	No.	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
 Three phase motor, 50 Hz, protection class IP54												Full motor protection					
VARD 710/4	06723	1450	31050	11.0*	400/690	21.6/12.6	776	40	280.0	FU-CS 22²⁾	05470	MSA³⁾	01289	SDD 3	01367	SDZ 3	01366
 Pole-switching, 2 speed (Dahlander winding ~/~/), Three phase motor, 50 Hz, protection class IP54																	
VARD 710/8/4	06794	730/1470	15470/31160	3.00/11.00*	400	8.90/24.0	471	60	230.0	—		MSA³⁾	01289	SDD 3	01367	SDZ 3	01366
 Explosion-proof, E Exe II, three phases motor, 50 Hz, temperature class T 3, protection class IP54																	
VARD 710/8 Ex¹⁾	06724	680	14410	1.30*	400	3.65	470	40	165.0	not permitted		not permitted		SDD 2	01453	SDZ 3	01366
VARD 710/6 Ex¹⁾	06725	955	20240	2.60*	400	6.8/3.9	498	40	190.0	not permitted		not permitted		SDD 3	01367	SDZ 3	01366
VARD 710/4 Ex¹⁾	06726	1475	31050	11.00*	400	21.5/12.5	498	40	255.0	not permitted		not permitted		SDD 3	01367	SDZ 3	01366
 Three phase motor, 50 Hz, protection class IP54												Smoke exhaust fan control system					
B VARD 710/4 F300	02350	1470	30940	11.00	400	20.9	776	40 / 300 ⁴⁾	230.0	—		EVS-SD 004	04583	SDD 6	01926	SDZ 6	01927
 Pole-switching, 2 speed (Dahlander winding ~/~/), Three phase motor, 50 Hz, protection class IP54																	
B VARD 710/8/4 F300	02351	725/1455	15460/30940	3.0/11.0	400	7.0/21.0	777	40 / 300 ⁴⁾	244.0	—		on demand		SDD 6	01926	SDZ 6	01927
 Three phase motor, 50 Hz, protection class IP54																	
B VARD 710/4 F400	02433	1470	30940	11.0	400	20.9	776	40 / 400 ⁴⁾	240.0	—		EVS-SD 004	04583	SDD 6	01926	SDZ 6	01927
 Pole-switching, 2 speed (Dahlander winding ~/~/), Three phase motor, 50 Hz, protection class IP54																	
B VARD 710/8/4 F400	02434	725/1455	15460/30940	3.0/11.0	400	7.0/21.0	777	40 / 400 ⁴⁾	244.0	—		on demand		SDD 6	01926	SDZ 6	01927

¹⁾ There must be a vibration monitoring system (on-site) pursuant to DIN EN 14986. ²⁾ incl. full motor protection device and sine filter

⁴⁾ Smoke extraction (once 120 min. at 300 °C or 120 min. at 400 °C)

⁵⁾ Types SDZ not permitted for installation within fire zone.

³⁾ for PTC resistor temperature sensor