

VAR and B VAR 800 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

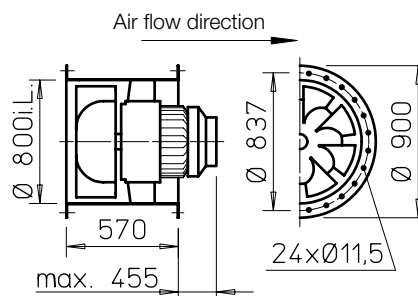
Series VAR

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 800 F300/F400



All dim. in mm

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

Installation

Installation in any position.

Series VAR

Consider potential condensation drain holes depending on application.

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: 60 kg

MP-Z 800

Ref. no. 04911

Double volume

Mounting package MP-P for parallel P unit

For arrangement of two identical fans side by side, for highest flow rates.

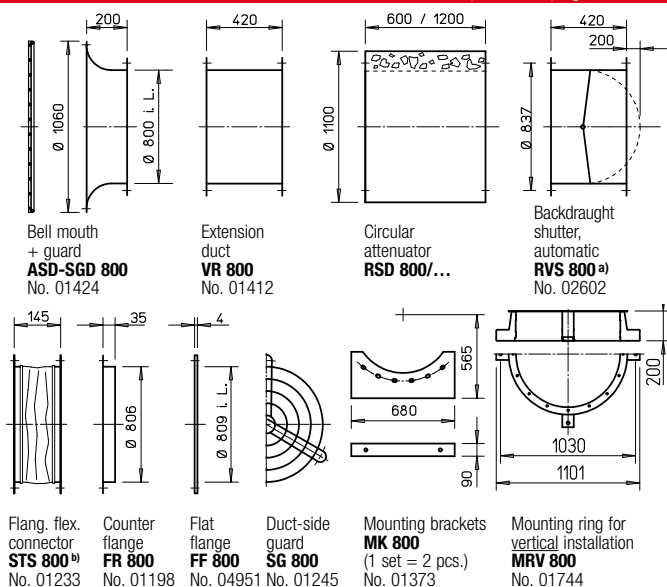
Scope of delivery: Extension ducts, backdraught shutter, mounting rails (2 pcs. each), mounting brackets (4 pcs.) and assembly kits.

Weight: 205 kg

MP-P 800

Ref. no. 04895

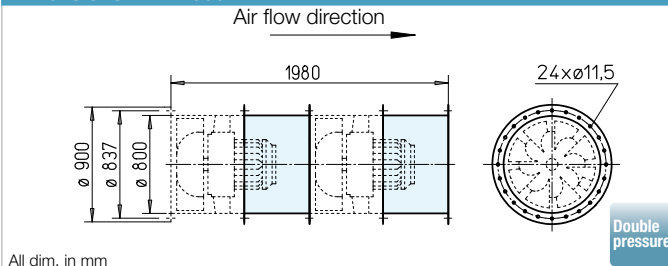
Accessories VAR + B VAR 800 F300/F400 Description see page 163 ff.



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

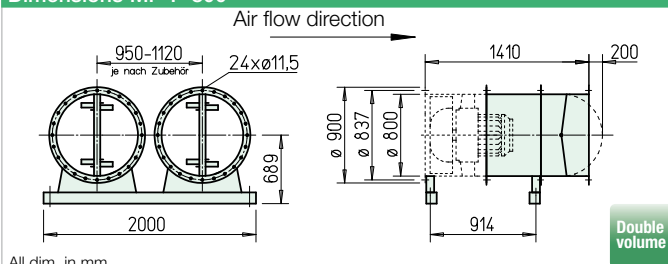
b) Type for B VARD: STSB 800 F400, No. 01919

Dimensions MP-Z 800



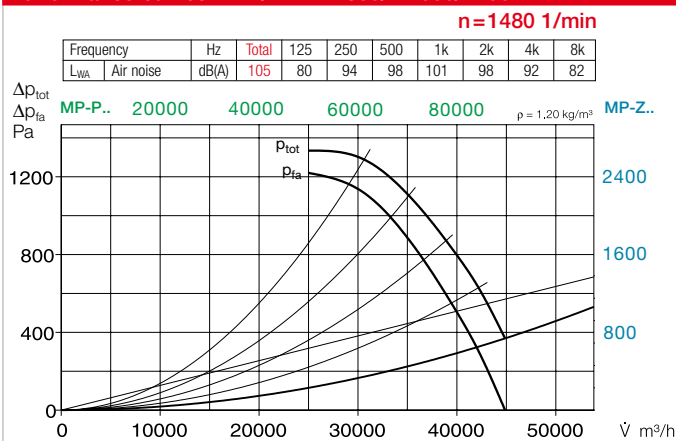
All dim. in mm

Dimensions MP-P 800

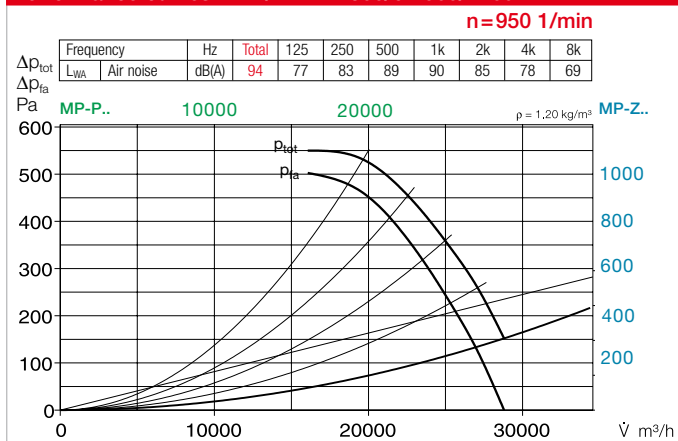


All dim. in mm

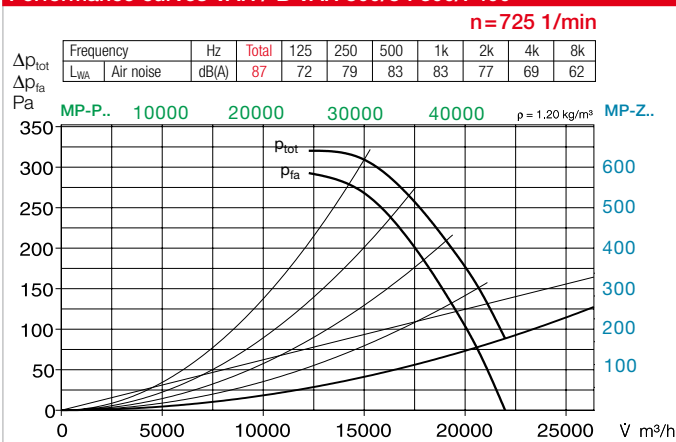
Performance curves VAR / B VAR 800/4 F300/F400



Performance curves VAR / B VAR 800/6 F300/F400



Performance curves VAR / B VAR 800/8 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

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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	Power consump- tion at nom. voltage	Wiring diag- ram	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 ²⁾			
												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 800/4	06729	1460	44720	18.50*	400/690	34.4/20	776	40	324.0	FU-CS 40 [®] 05472	MSA 01289	SDD 3	01367	SDZ 6	01927		
 Pole-switching, 2 speed (Dahlander winding γ/γγ), Three phase motor, 50 Hz, protection class IP54																	
VARD 800/8/4	06796	735/1470	22280/44570	5.50/20.00*	400	12.0/40.0	471	60	325.0	—	—	SDD 3	01367	SDZ 6	01927		
 Explosion-proof, E Exe II, three phase motor, 50 Hz, temperature class T 3, protection class IP54																	
VARD 800/8 Ex ¹⁾	06730	710	21530	2.60*	400	6.6/3.8	470	40	240.0	not permitted	not permitted	SDD 3	01367	SDZ 3	01366		
VARD 800/6 Ex ¹⁾	06731	970	29410	6.60*	400	15.0/8.7	498	40	280.0	not permitted	not permitted	SDD 3	01367	SDZ 3	01366		
VARD 800/4 Ex ¹⁾	06732	1475	44720	17.50*	400	33.5/19.4	498	40	420.0	not permitted	not permitted	SDD 3	01367	SDZ 6	01927		
 Three phase motor, 50 Hz, protection class IP54											Smoke exhaust fan control system						
B VARD 800/4 F300	02360	1470	44570	18.5	400	35.1	776	40 / 300 ³⁾	326.0	—	EVS-SD 006 04581	SDD 7	01928	SDZ 7	01929		
 Pole-switching, 2 speed (Dahlander winding γ/γγ), Three phase motor, 50 Hz, protection class IP54																	
B VARD 800/8/4 F300	02361	730/1470	22430/44570	5.0/20.0	400	14.1/38.6	777	40 / 300 ³⁾	339.0	—	on demand	SDD 7	01928	SDZ 7	01929		
 Three phase motor, 50 Hz, protection class IP54																	
B VARD 800/4 F400	02444	1470	44570	18.5	400	35.1	776	40 / 400 ³⁾	330.0	—	EVS-SD 006 04581	SDD 7	01928	SDZ 7	01929		
 Pole-switching, 2 speed (Dahlander winding γ/γγ), Three phase motor, 50 Hz, protection class IP54																	
B VARD 800/8/4 F400	02445	730/1470	22430/44570	5.0/20.0	400	14.1/38.6	777	40 / 400 ³⁾	339.0	—	on demand	SDD 7	01928	SDZ 7	01929		

¹⁾ There must be a vibration monitoring system (on-site) pursuant to DIN EN 14986.

²⁾ Types SDZ not permitted for installation within fire zone.

³⁾ incl. full motor protection device and sine filter

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