

B VAR 450 F300



■ 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 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

All types (except pole-switching) have PTC resistors as standard and must be protected with a full motor protection device (MSA, Ref. no. 01289). This must be bridged in smoke extraction situation.

■ Installation

Installation in any position. Suitable for installation within and outside of the fire zone.

■ Electrical connection

Standard terminal box in temperature-resistant design (protection class IP54) outside of duct.

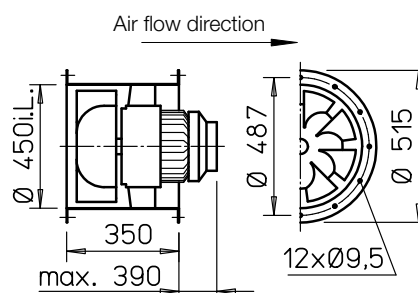
■ Safety information

Guard for impeller pursuant to DIN EN ISO 13857 must be secured by installation.

■ 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.

Dimensions B VAR 450 F300



All dim. in mm

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: 14 kg

MP-Z 450

Ref. no. 04906

Double volume

■ Mounting package MP-P for parallel P unit

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

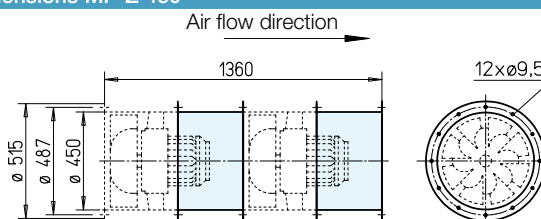
Scope of delivery: Extension ducts, backdraught shutter, mounting rails (2 pcs. each), mounting brackets (4 pcs.) and assembly kits.

Weight: 43 kg

MP-P 450

Ref. no. 04890

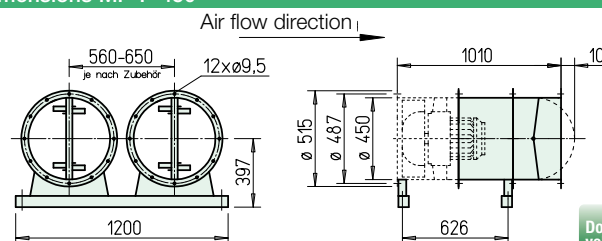
Dimensions MP-Z 450



All dim. in mm

Double pressure

Dimensions MP-P 450



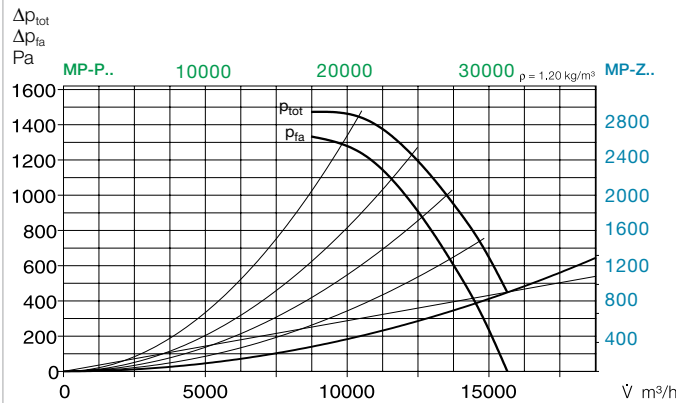
All dim. in mm

Double volume

Performance curves B VAR 450/2 F300

n=2900 1/min

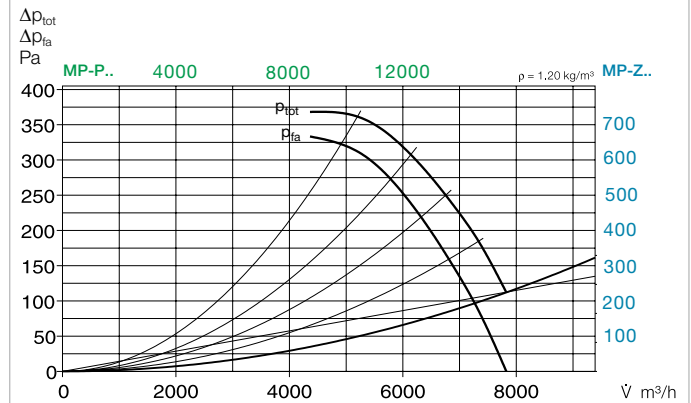
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	103	73	84	95	98	98	94	85
L _{PA, 4m}	Air noise	dB(A)	83	53	64	75	78	78	74	65



Performance curves B VAR 450/4 F300

n=1450 1/min

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA}	Air noise	dB(A)	87	62	76	81	83	80	74	64
L _{PA, 4m}	Air noise	dB(A)	67	42	56	61	63	60	54	44



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

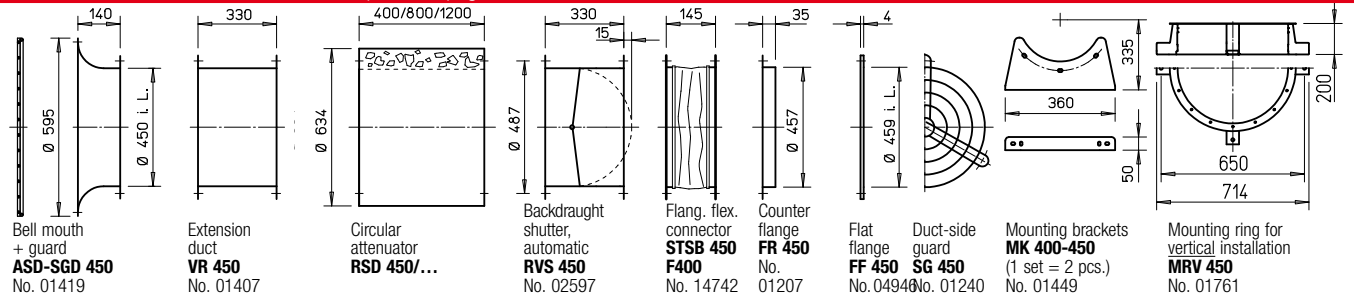
Information

Page
Techn. description 84 ff.
Project planning information 10 ff.

Accessory details

Mounting accessories 163 ff.
Attenuator 168
Gas warning systems, switch and control technology 170 ff.

Accessories for B VAR 450 F300 Description see page 163 ff.



Type	Ref. no.	Speed	Output free-blowing	Nom. motor power (output)	Nominal voltage	Power consumption	Wiring diagram	max. air flow temp. ¹⁾	Net weight approx.	Smoke exhaust fan control system incl. full motor protection	Anti-vibration mount ²⁾
		min ⁻¹	V m³/h	kW	V	A	No.	+°C	kg	Type Ref. no.	Pressure Tensile
											Type Ref. no. Type Ref. no.
F300 Three phase motor, 50 Hz, protection class IP54											
B VARD 450/4 F300	02311	1450	7600	1.5	400	3.17	776	40 / 300	64	EVS-D 001 04594	SDD 1 F 01942 SDZ 1 F 01943
B VARD 450/2 F300	02312	2930	15805	7.5	400	14.1	776	40 / 300	102	EVS-SD 003 04584	SDD 4 01944 SDZ 4 01945
F300 Pole-switching, 2 speed (Dahlander winding γ/γ), three phase motor 50 Hz, protection class IP54											
B VARD 450/4/2 F300	02313	1470/2930	7815/15765	2.0/8.0	400	4.83/15.3	777	40 / 300	106	on demand	SDD 4 01944 SDZ 4 01945

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.