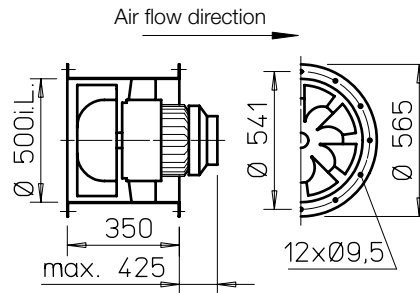


B VAR 500 F300/F400



Dimensions B VAR 500 F300/F400



All dim. in mm

- 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.

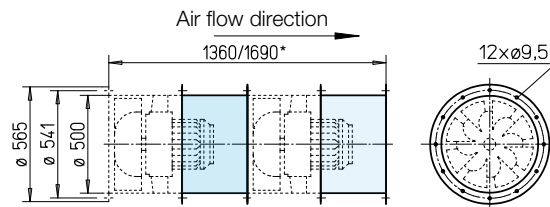
Double pressure

- 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: 15 kg
MP-Z 500 Ref. no. 04907
 Additional extension duct required for type B VAR 500/2 and 500/4/2.
VR 500 Ref. no. 01408

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: 55 kg
MP-P 500 Ref. no. 04891

Dimensions MP-Z 500

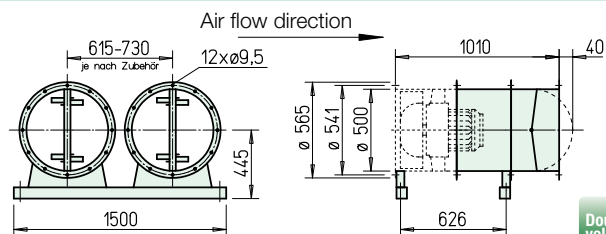


All dim. in mm

* Additional extension duct for type B VAR 500/2 and 500/4/2 needed.

Double pressure

Dimensions MP-P 500



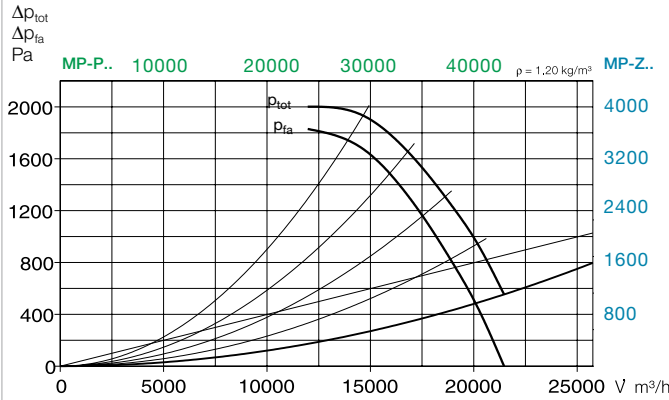
All dim. in mm

Double volume

Performance curves B VAR 500/2 F300/F400

n=2900 1/min

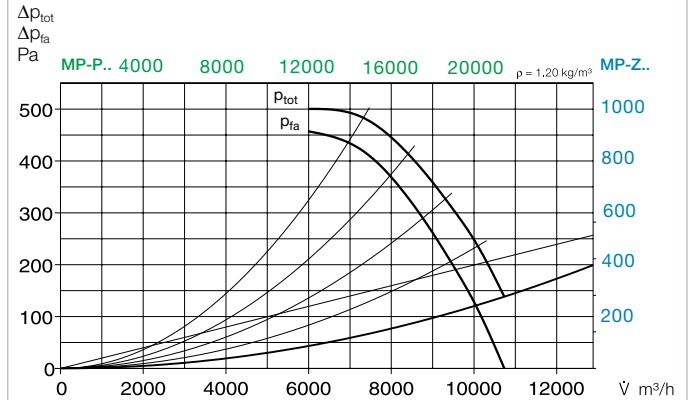
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA} Air noise		106	76	87	99	101	101	97	89
$L_{PA,4m}$ Air noise		86	56	67	79	81	81	77	69



Performance curves B VAR 500/4 F300/F400

n=1450 1/min

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA} Air noise		90	66	79	84	86	84	77	67
$L_{PA,4m}$ Air noise		70	46	59	64	66	64	57	47



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

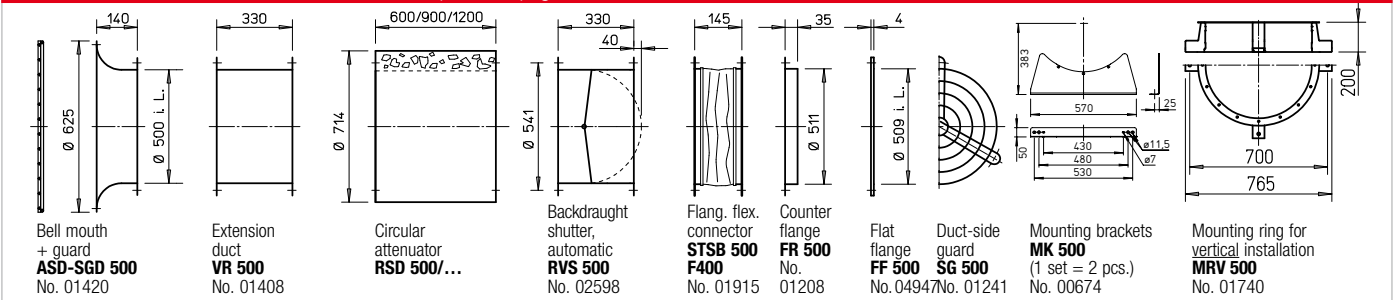
Information

Techn. description	84 ff.
Project planning information	13 ff.

Accessory details

Mounting accessories	161 ff.
Attenuator	166
Gas warning systems, switch and control technology	168 ff.

Accessories for B VAR 500 F300/F400 Description see page 161 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⁾				
											Type	Ref. no.	Type	Ref. no.	
F300 Three phase motor, 50 Hz, protection class IP54		min ⁻¹	V m ³ /h	kW	V	A	No.	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
B VARD 500/4 F300	02322	1435	10510	2.2	400	4.56	776	40 / 300	79	EVS-D 001 04594	SDD 4 01944	SDZ 4 01945			
B VARD 500/2 F300	02296	2945	21760	15.0	400	27.7	776	40 / 300	168	EVS-SD 005 04582	SDD 5 01924	SDZ 5 01925			
F300 Pole-switching, 2 speed (Dahlander winding γ/γ), three phase motor 50 Hz, protection class IP54															
B VARD 500/8/4 F300	02323	700/1430	4960/10430	0.55/2.2	400	2.0/4.84	777	40 / 300	84	on demand	SDD 4 01944	SDZ 4 01945			
B VARD 500/4/2 F300	02299	1470/2950	10840/21760	4.0/16.0	400	9.57/30.5	777	40 / 300	191	on demand	SDD 5 01924	SDZ 5 01925			
F400 Three phase motor, 50 Hz, protection class IP54															
B VARD 500/4 F400	02404	1435	10510	2.2	400	4.56	776	40 / 400	79	EVS-D 001 04594	SDD 4 01944	SDZ 4 01945			
F400 Pole-switching, 2 speed (Dahlander winding γ/γ), three phase motor 50 Hz, protection class IP54															
B VARD 500/8/4 F400	02405	700/1430	4960/10430	0.55/2.2	400	2.0/4.84	777	40 / 400	84	on demand	SDD 4 01944	SDZ 4 01945			

¹⁾ For ventilation / smoke extraction (once 120 min. at 300 °C or 120 min. at 400 °C).

²⁾ For Z/P version due to higher total weight Type allocation according to tables on page 157.