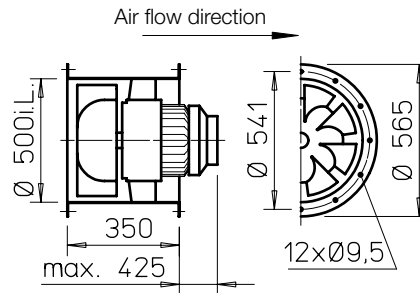


**B VAR 500 F300/F400**



**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.

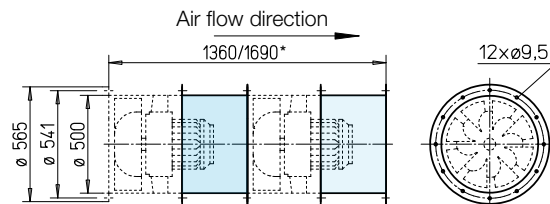
**Double pressure**

- 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**

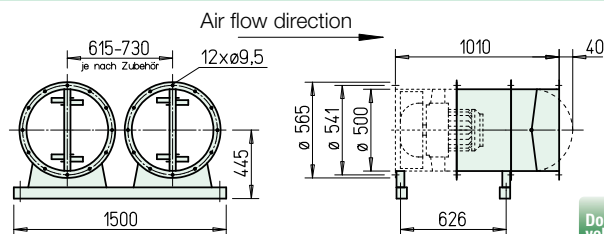


All dim. in mm

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

**Double pressure**

**Dimensions MP-P 500**



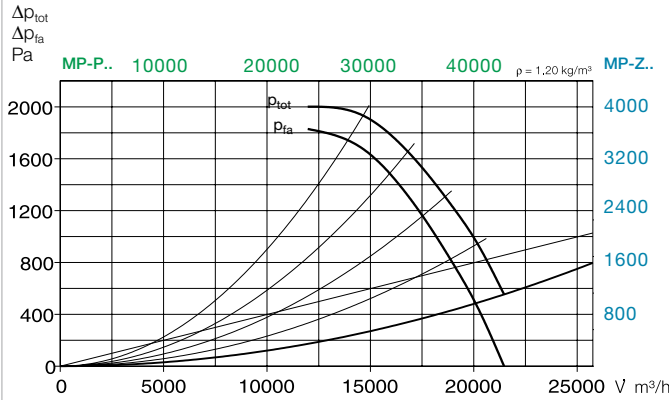
All dim. in mm

**Double volume**

## Performance curves B VAR 500/2 F300/F400

n=2900 1/min

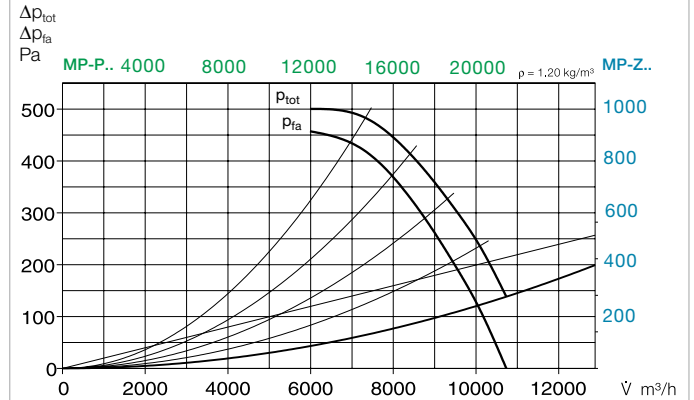
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub>	Air noise	dB(A)	106	76	87	99	101	101	97	89
L <sub>PA,4m</sub>	Air noise	dB(A)	86	56	67	79	81	81	77	69



## Performance curves B VAR 500/4 F300/F400

n=1450 1/min

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k	
L <sub>WA</sub>	Air noise	dB(A)	90	66	79	84	86	84	77	67
L <sub>PA,4m</sub>	Air noise	dB(A)	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

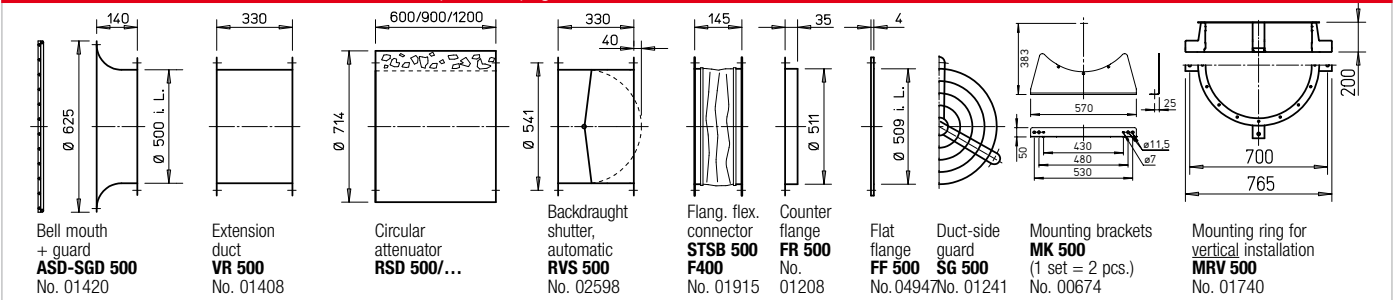
### Information

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. <sup>1)</sup>	Net weight approx.	Smoke exhaust fan control system incl. full motor protection	Anti-vibration mount <sup>2)</sup>				
											Type	Ref. no.	Type	Ref. no.	
<b>F300</b> Three phase motor, 50 Hz, protection class IP54		min <sup>-1</sup>	V m <sup>3</sup> /h	kW	V	A	No.	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
<b>B VAR 500/4 F300</b>	02322	1435	10510	2.2	400	4.56	776	40 / 300	79	<b>EVS-D 001</b> 04594	<b>SDD 4</b> 01944	<b>SDZ 4</b> 01945			
<b>B VAR 500/2 F300</b>	02296	2945	21760	15.0	400	27.7	776	40 / 300	168	<b>EVS-SD 005</b> 04582	<b>SDD 5</b> 01924	<b>SDZ 5</b> 01925			
<b>F300</b> Pole-switching, 2 speed (Dahlander winding $\gamma/\gamma$ ), three phase motor 50 Hz, protection class IP54															
<b>B VAR 500/8/4 F300</b>	02323	700/1430	4960/10430	0.55/2.2	400	2.0/4.84	777	40 / 300	84	<b>on demand</b>	<b>SDD 4</b> 01944	<b>SDZ 4</b> 01945			
<b>B VAR 500/4/2 F300</b>	02299	1470/2950	10840/21760	4.0/16.0	400	9.57/30.5	777	40 / 300	191	<b>on demand</b>	<b>SDD 5</b> 01924	<b>SDZ 5</b> 01925			
<b>F400</b> Three phase motor, 50 Hz, protection class IP54															
<b>B VAR 500/4 F400</b>	02404	1435	10510	2.2	400	4.56	776	40 / 400	79	<b>EVS-D 001</b> 04594	<b>SDD 4</b> 01944	<b>SDZ 4</b> 01945			
<b>F400</b> Pole-switching, 2 speed (Dahlander winding $\gamma/\gamma$ ), three phase motor 50 Hz, protection class IP54															
<b>B VAR 500/8/4 F400</b>	02405	700/1430	4960/10430	0.55/2.2	400	2.0/4.84	777	40 / 400	84	<b>on demand</b>	<b>SDD 4</b> 01944	<b>SDZ 4</b> 01945			

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

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