

# Plastic radial fans

## VRE 250

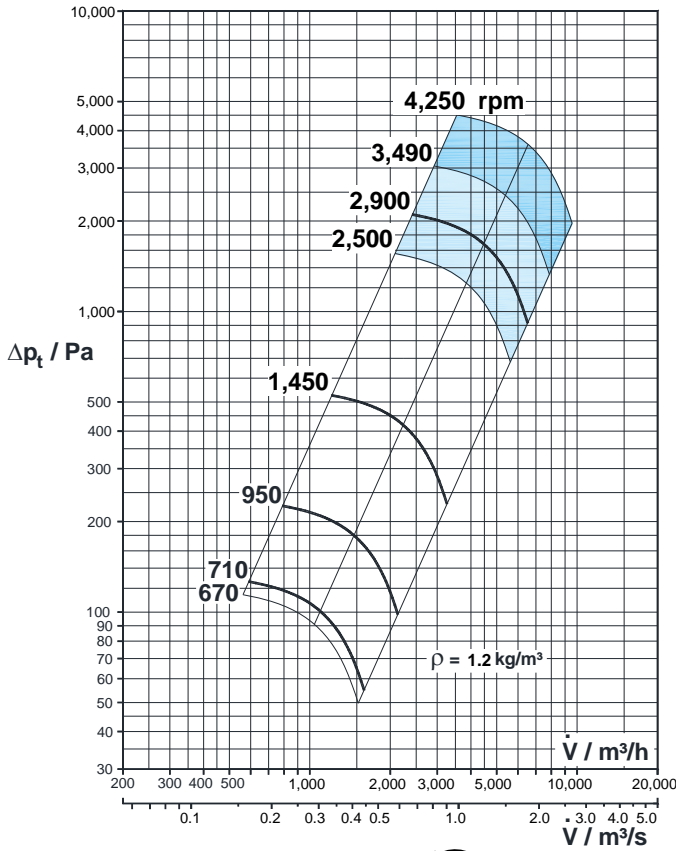
### Diagrams



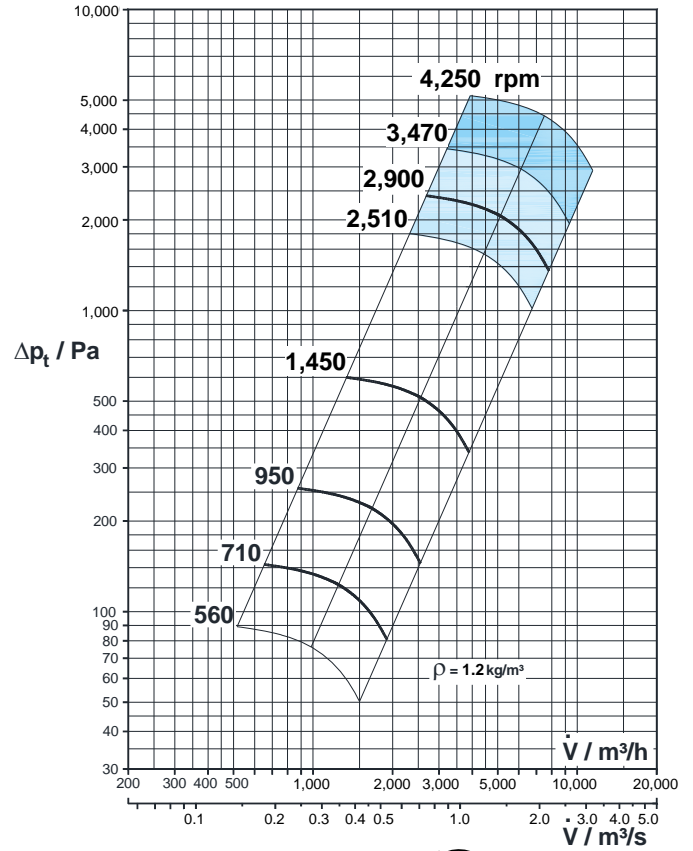
DE WIT  
ventilatoren



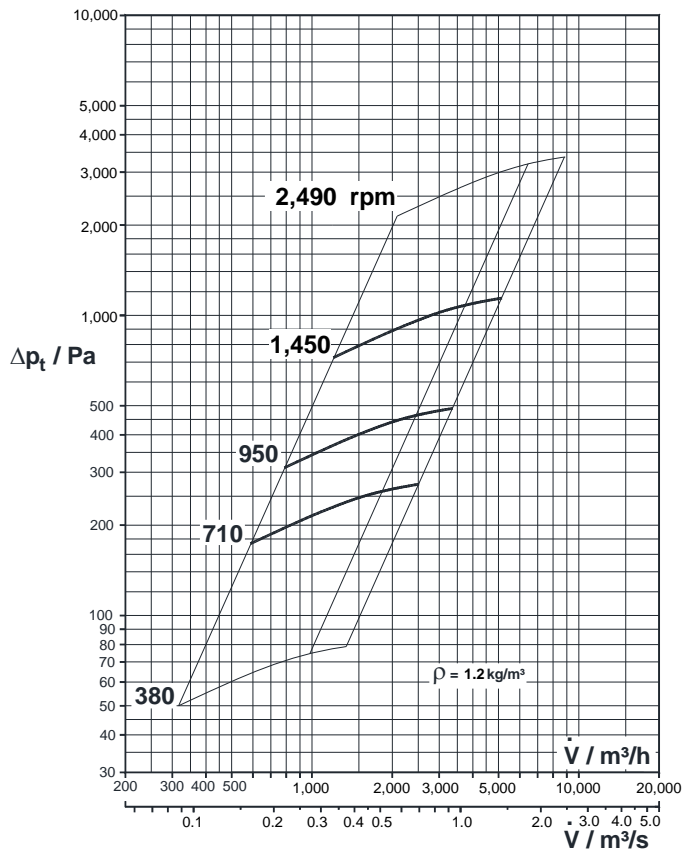
Impeller type 731



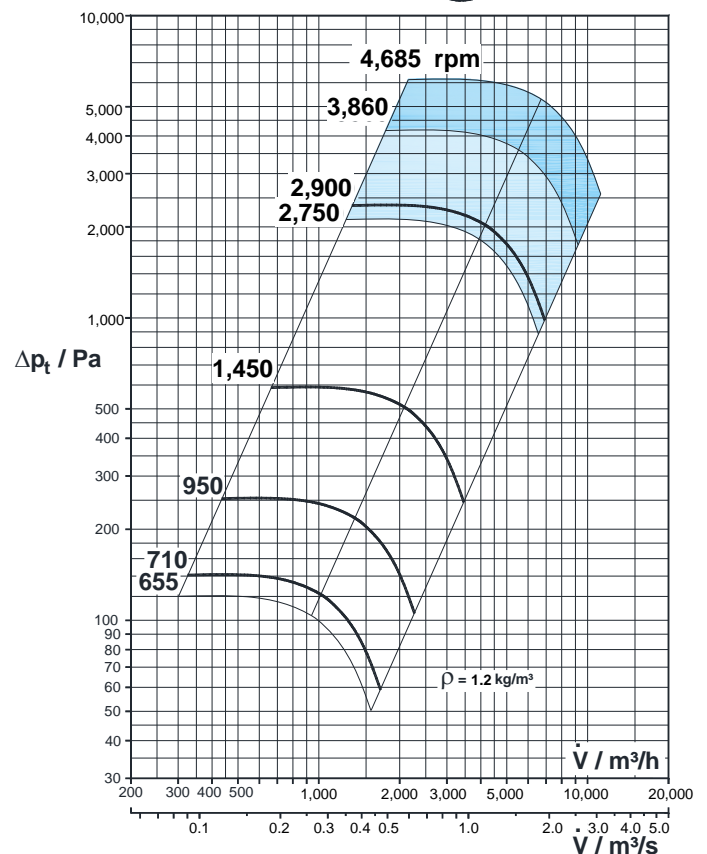
Impeller type 733



Impeller type 734



Impeller type 673



Impeller materials:

PPs, PPsX, PVC, PVDF



#### MOTOR VARIANTS for standard motor 3~400V/50Hz

(Data for other motor types e.g. single phase motors, pole changing motors or Ex motors on request)

Fan type	Speed rpm	Power require- ment kW	Nominal motor power kW	Nominal motor current A	Weight with Motor kg	$L_{A3m}$ dB(A)	$L_{WA}$ dB(A)	Octave level $L_{WA-Okt}$ / dB(A)								ErP cate- gory D-total
								63	125	250	500	1000	2000	4000	8000	
VRE250/731W710	710	0.046	0.09	0.38	35	42	59	46	53	50	55	52	44	30	21	- <sup>2)</sup>
VRE250/731W950	950	0.110	0.18	0.67	36	47	64	50	55	56	57	60	53	46	28	- <sup>3)</sup>
VRE250/731W1450	1,450	0.349	0.37	0.96	36	54	72	58	61	67	68	65	61	55	41	Level 2 <sup>4)</sup>
VRE250/731W2900	2,900	3.160	4.00	7.60	75	70	88	74	78	83	84	80	76	69	56	Level 2 <sup>4)</sup>
VRE250/731W2900	4,250 <sup>1)</sup>	9.800	11.00	19.60	120	78	96	81	87	92	92	88	83	77	63	Level 2 <sup>5)</sup>
VRE250/733W710	710	0.074	0.09	0.38	35	45	62	52	60	49	55	52	44	30	24	- <sup>3)</sup>
VRE250/733W950	950	0.177	0.18	0.67	34	50	67	54	60	58	59	62	55	48	35	- <sup>3)</sup>
VRE250/733W1450	1,450	0.630	0.75	1.81	42	58	76	61	65	71	70	67	63	57	48	Level 2 <sup>4)</sup>
VRE250/733W2900	2,900	5.040	5.50	9.90	79	73	91	78	82	88	86	82	78	71	62	Level 2 <sup>5)</sup>
VRE250/733W2900	4,250 <sup>1)</sup>	16.900	18.50	32.00	131	82	100	85	91	97	95	91	86	79	69	Level 2 <sup>5)</sup>
VRE250/734W710	710	0.308	0.37	1.17	40	48	65	50	55	57	64	54	51	47	33	- <sup>3)</sup>
VRE250/734W950	950	0.739	0.75	1.98	46	54	71	55	58	64	69	59	55	49	40	Level 2 <sup>4)</sup>
VRE250/734W1450	1,450	2.620	3.00	6.30	61	62	80	64	68	71	74	76	70	65	53	Level 2 <sup>4)</sup>
VRE250/734W1450	2,490 <sup>1)</sup>	13.300	15.00	28.50	136	74	92	76	81	84	87	88	82	77	64	Level 2 <sup>5)</sup>
VRE250/673W710	710	0.057	0.09	0.38	33	41	58	48	53	52	51	50	43	37	29	- <sup>2)</sup>
VRE250/673W950	950	0.136	0.18	0.67	32	47	64	54	58	58	57	56	49	43	35	- <sup>3)</sup>
VRE250/673W1450	1,450	0.483	0.55	1.41	48	55	73	63	66	68	65	62	59	51	43	Level 2
VRE250/673W2900	2,900	3.870	4.00	7.60	76	71	89	74	83	84	83	79	74	69	59	Level 2 <sup>4)</sup>
VRE250/673W2900	4,685 <sup>1)</sup>	16.400	18.50	32.00	139	83	100	82	92	96	95	92	86	79	73	Level 2 <sup>5)</sup>

1) - during operation with frequency converter > 50 Hz

2) - Fan does not fall within scope of ErP directive

3) - Fan for moving aggressive media

4) - When using IE2 motors

5) - When using IE3 motors

6) - When using IE4 motors

$L_{A3m}$  = A - evaluated noise level at a distance of 3 m

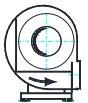
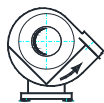


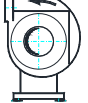
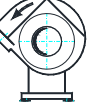
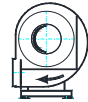
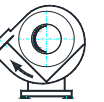


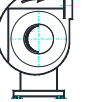

$L_{WA}$  = A - evaluated noise level in the channel

#### CASING POSITIONS

The fan is available in casing positions **L** (left) and **R** (right), each in 6 different casing positions.

The position of the casing is set by the manufacturer and requires significant effort to change subsequently. The axle height specified with casing position 090R in the dimension drawing remains unchanged.

Corresponding drawings in dxf format are available on the MIETZSCH CD.

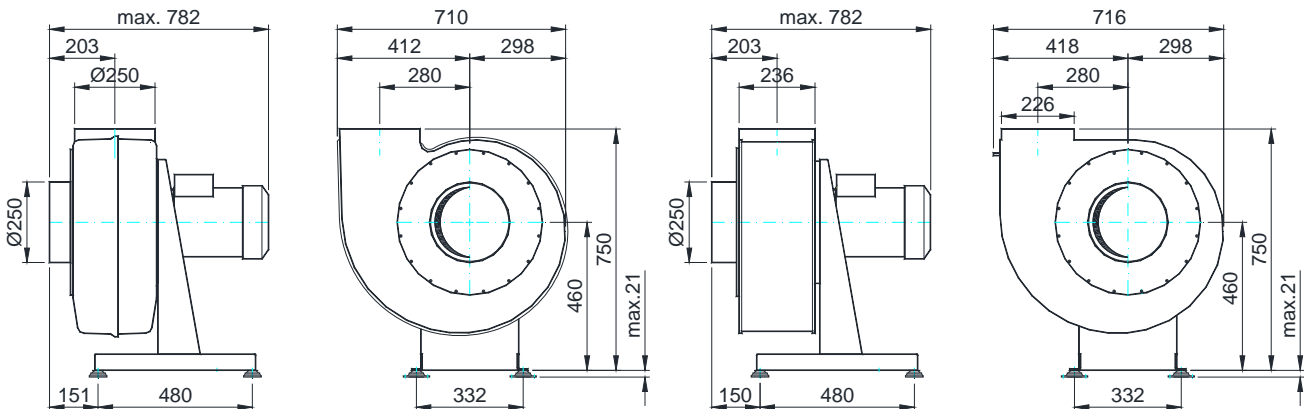
					
000L	045L	090L	135L	180L	225L
					
000R	045R	090R	135R	180R	225R

### MAIN DIMENSIONS

#### for drive power ≤ 5,5 kW – Casing position 090R

Casing material: PPs, PVC

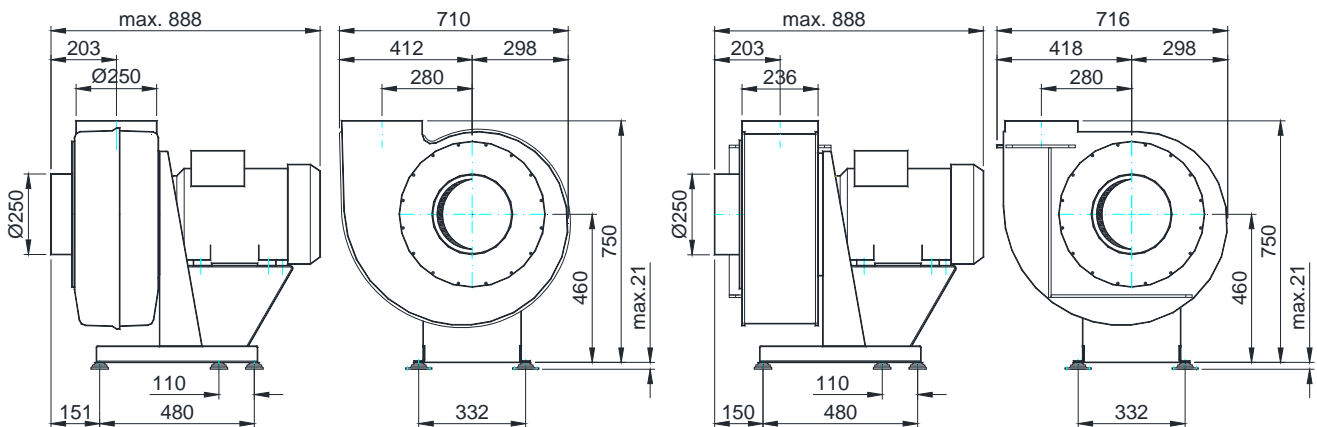
Casing material: PE, PEX, PP, PPsX, PVDF



#### for drive power > 5,5 kW bis 15 kW – Casing position 090R

Casing material: PPs, PVC

Casing material: PE, PEX, PP, PPsX, PVDF

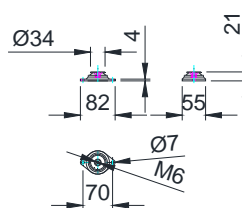


### VIBRATION ISOLATION

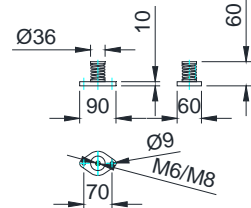
The manufacturer equips all fans with a set of rubber insulators of type 50-50SF that is designed for the size, speed and drive power of the fan.

Stainless steel spring insulators as e.g. type MFI20 / MFI40 can be exploited on special demand if natural frequency and isolation effectiveness require particularly high demands on vibration isolation. Due to the materials used ( stainless steel A2 and PE-HD) stainless steel spring insulators can be used in areas sensitive to corrosion and hygiene.

#### Type 50-50 SF



#### Type MFI 20 M6 / MFI 40 M8



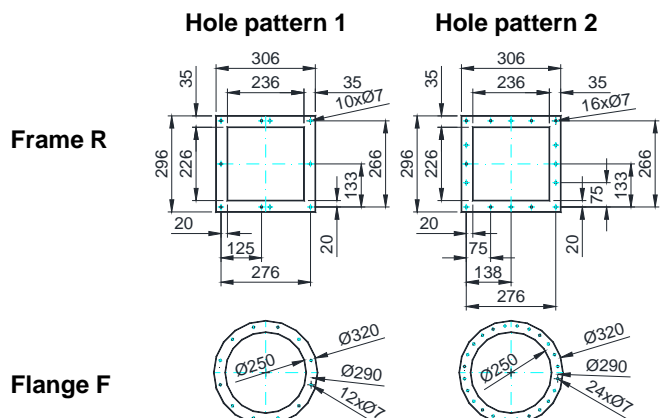
### FRAME / FLANGE

Frame and flange are designed according to MIETZSCH standard MWS 54030 or MWS 53030.

Drilling pattern:

- 0 – undrilled (e.g. F0, KOF0)
- 1 – hole pattern 1 for normal requirements (e.g. KOF1)
- 2 – hole pattern 2 (double the number of screws) for high positive pressures and strong condensation (e.g. F2, KOF2)

Models according to other standards or special designs are possible on request.

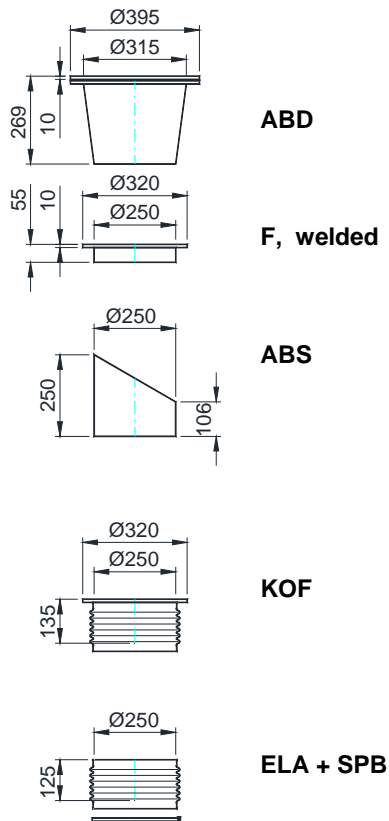


### CASING CONNECTIONS

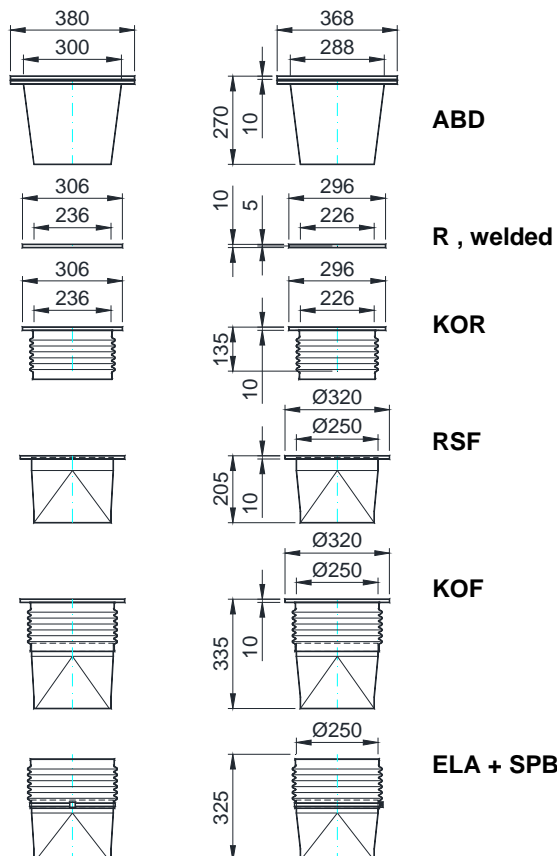
The basic model of the fan depicted under MAIN DIMENSIONS can be supplemented with a range of accessories and thus adapted optimally to the specific operating conditions. In addition to the standard range, special models and even special designs are possible on request. The variants shown in the dimension drawing therefore only cover the most frequently used casing connections and condensate drains. For detailed information, refer to the SPECIAL DESIGNS and ACCESSORIES sections.

#### Pressure side casing connection

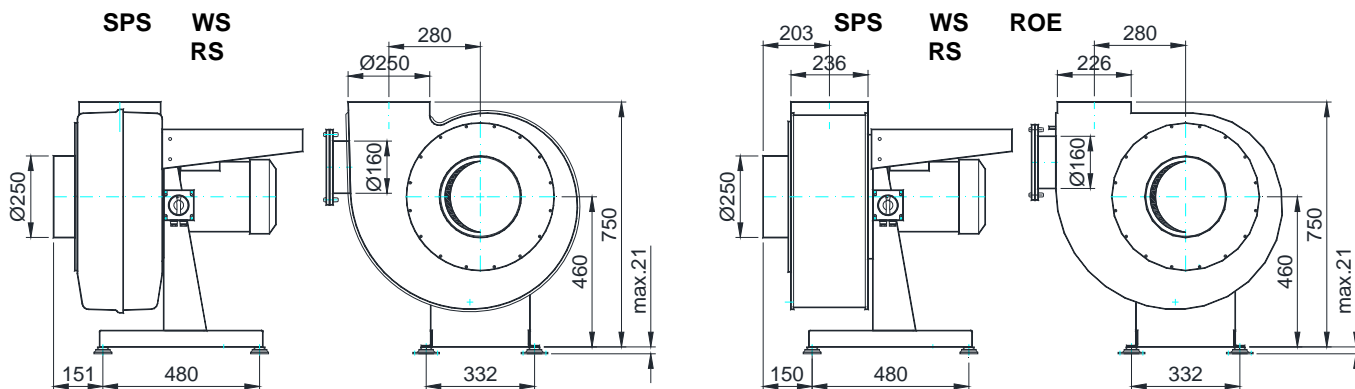
Casing material: PPs, PVC



Casing material: PE, PEX, PP, PPsX, PVDF

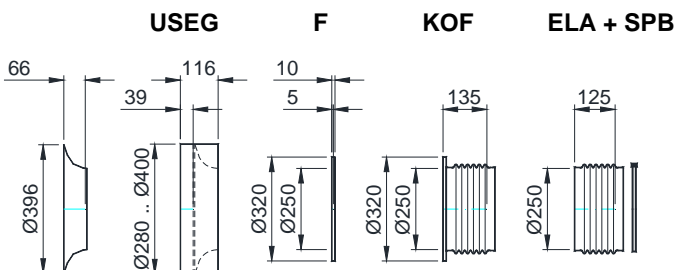


#### Accessories



#### Suction side casing connection

Casing material: all



#### Condensate drain

Casing material: all

