

Plastic radial fans

VRE 500

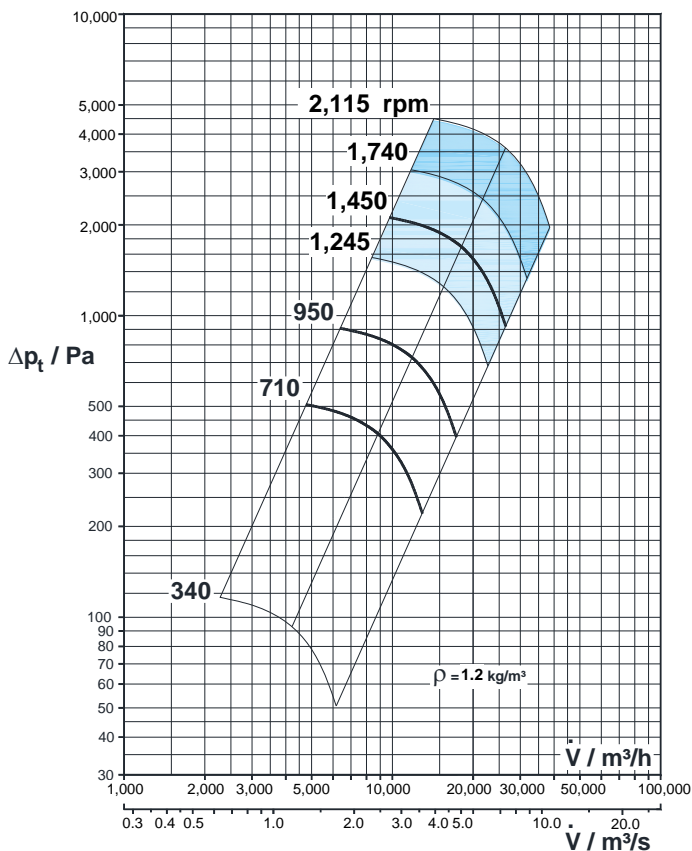
Diagrams



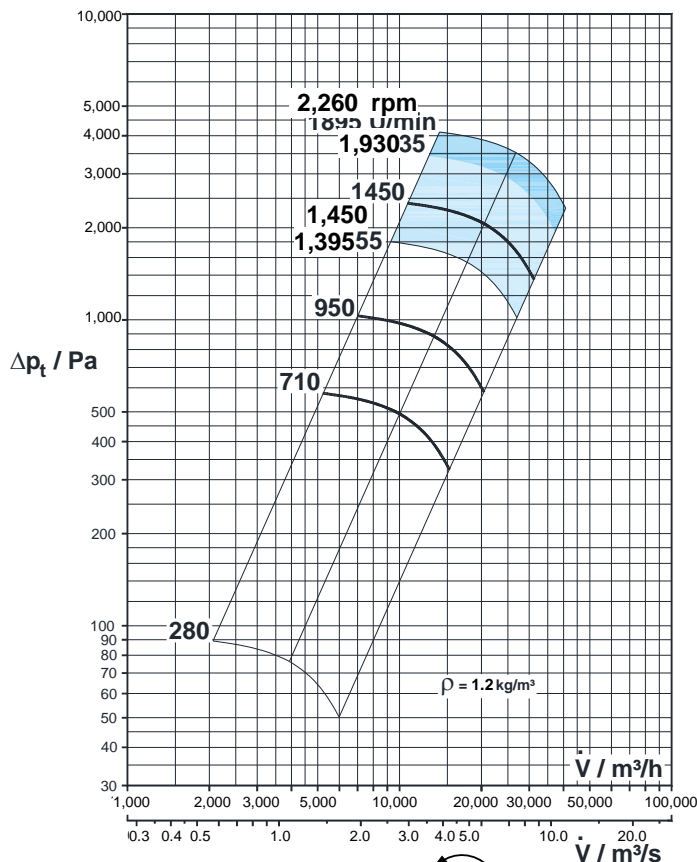
DE WIT
ventilatoren



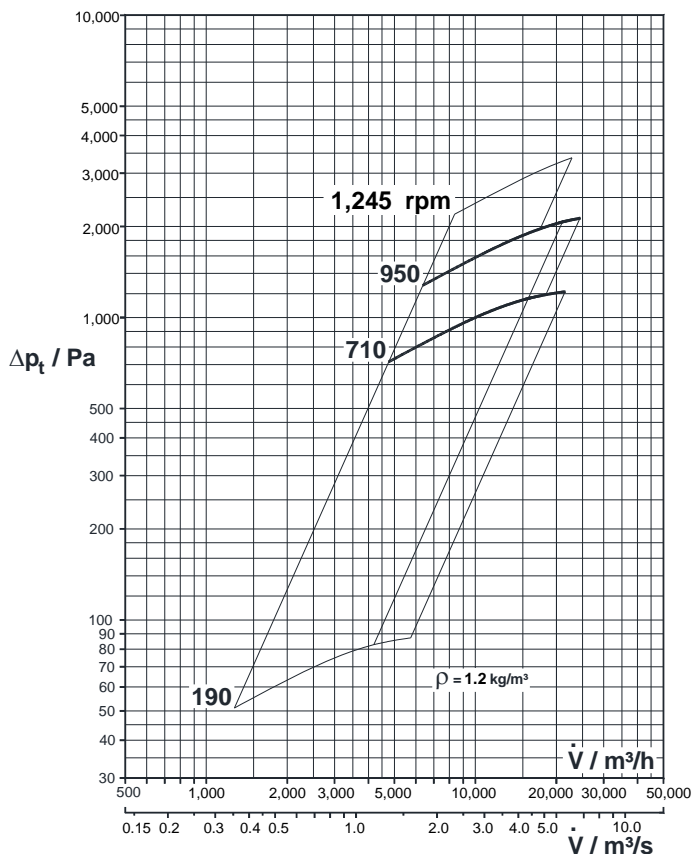
Impeller type 731



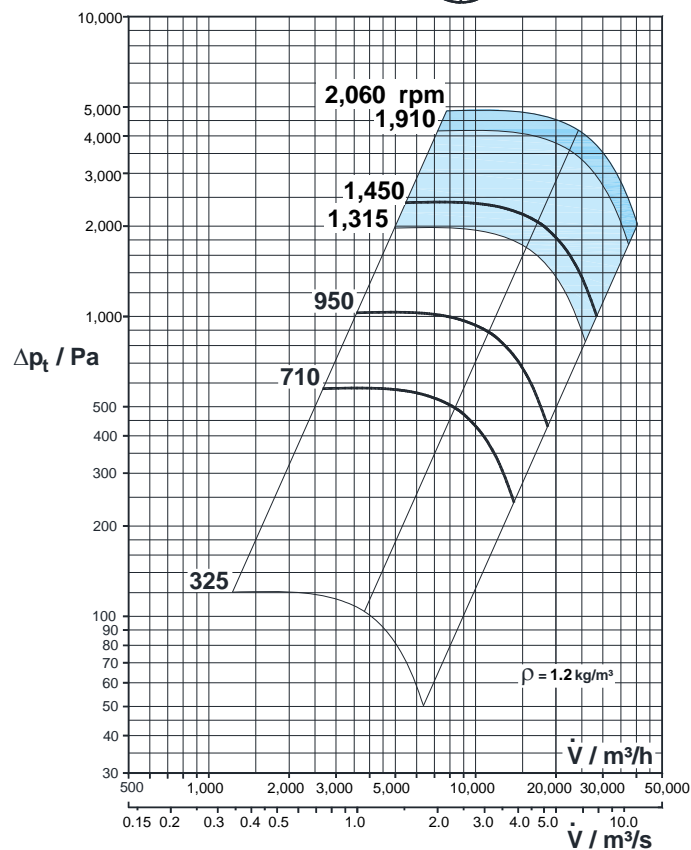
Impeller type 733



Impeller type 734



Impeller type 673



Impeller materials:

PPs, PPsX, PVC, PVDF



GFRP



CFRP



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	
VRE 500/731W710	710	1.47	1.5	3.95	182	59	79	67	72	75	72	69	67	64	60	- ³⁾
VRE 500/731W950	950	3.53	4.0	8.4	215	66	85	72	75	82	80	74	72	70	65	Level 2 ⁴⁾
VRE 500/731W1450	1,450	12.60	15.0	28.5	280	75	93	80	83	91	87	82	79	76	67	Level 2 ⁵⁾
VRE 500/731W1450	2,115 ¹⁾	39.00	45.0	80.0	500	83	101	88	9	99	95	89	86	83	74	Level 2 ⁵⁾
VRE 500/733W710	710	2.38	3.0	7.8	199	63	82	70	75	77	73	70	68	65	62	- ³⁾
VRE 500/733W950	950	5.67	7.5	16.0	276	69	88	74	77	85	80	74	72	70	67	Level 2 ⁵⁾
VRE 500/733W1450	1,450	20.80	22.0	41.0	350	78	96	83	86	94	87	82	79	76	70	Level 2 ⁵⁾
VRE 500/733W1450	1,895 ¹⁾	45.00	45.0	80.0	500	84	102	89	93	101	93	88	85	82	75	Level 2 ⁵⁾
VRE 500/734W710	710	11.60	15.0	32.0	359	69	86	69	72	79	84	79	74	70	59	Level 2
VRE 500/734W950	950	21,20	22.0	43.5	413	74	92	77	81	85	89	82	77	71	61	Level 2 ⁵⁾
VRE 500/734W950	1,245 ¹⁾	30.00	30.0	56.0	508	79	97	82	86	89	93	90	85	80	69	Level 2 ⁵⁾
VRE 500/673W710	710	1.85	2.2	5.9	182	62	79	69	74	73	72	71	65	58	50	Level 2
VRE 500/673W950	950	4.42	5.5	12.0	210	68	85	75	79	79	78	77	70	64	56	Level 2 ⁴⁾
VRE 500/673W1450	1,450	15.70	18.5	35.0	345	76	94	84	87	89	86	83	80	72	64	Level 2 ⁵⁾
VRE 500/673W1450	2,060 ¹⁾	45.00	45.0	80.0	500	84	102	90	96	97	95	92	89	80	72	Level 2 ⁵⁾

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

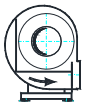
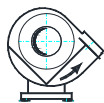


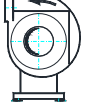
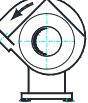
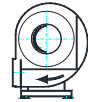
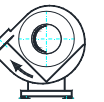


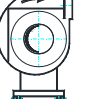

L_{WA} = A - evaluated noise level in the channel

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

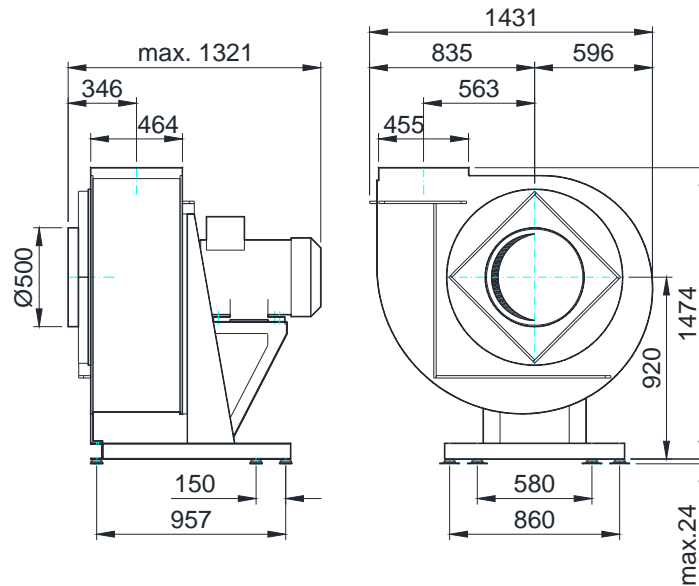
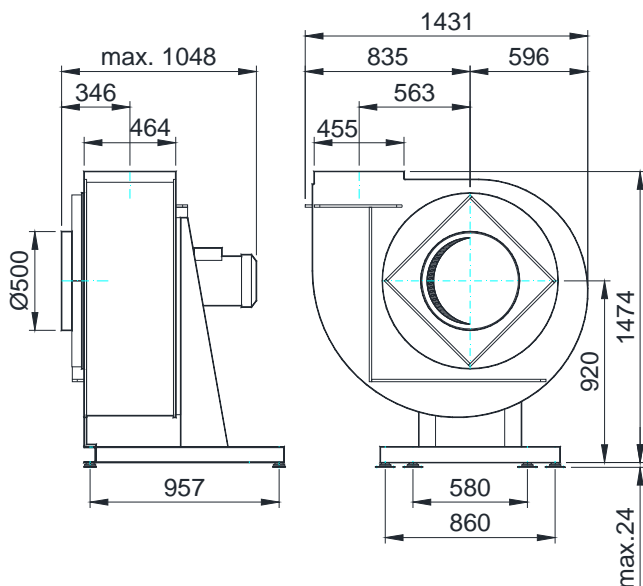
MAIN DIMENSIONS

Casing position 090R

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

for drive power: $\leq 15 \text{ kW}$

$> 15 \text{ kW bis } 45 \text{ kW}$

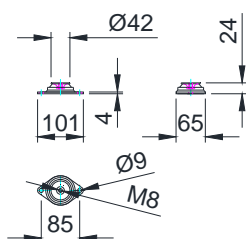


VIBRATION ISOLATION

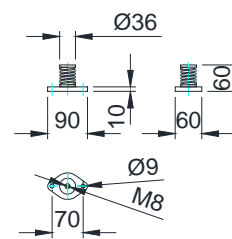
The manufacturer equips all fans with a set of rubber insulators of type 60-100SF that is designed for the size, speed and drive power of the fan.

Stainless steel spring insulators as e.g. type MFI40-M8 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 60-100 SF M8



Typ MFI 40 M8



FRAME / FLANGE

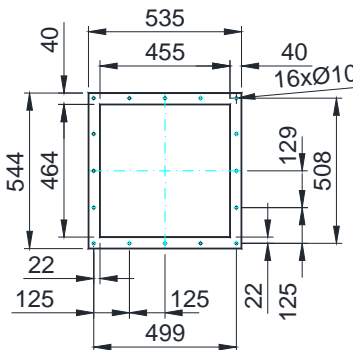
Frame and flange are designed according to MIETZSCH standard MWS 54030 or MWS 53030.

Drilling pattern:

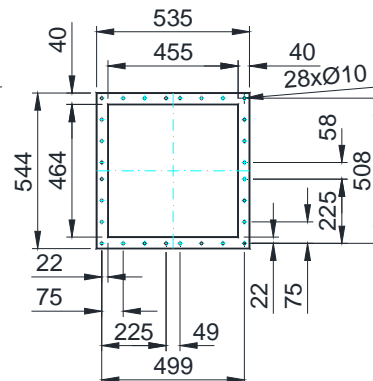
- 0 – undrilled (e.g. F0, KOF0)
- 1 – hole pattern 1 for normal requirements (e.g. KOF1)
- 2 – hole pattern 2 (double the number of screws) for high positive pressures and strong condensation (e.g. F2, KOF2)

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

Hole pattern 1

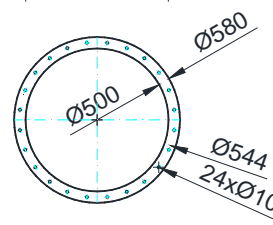
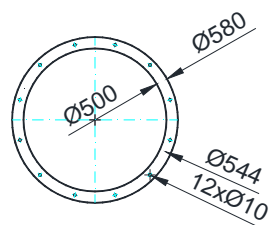


Hole pattern 2



Frame R

Flange F

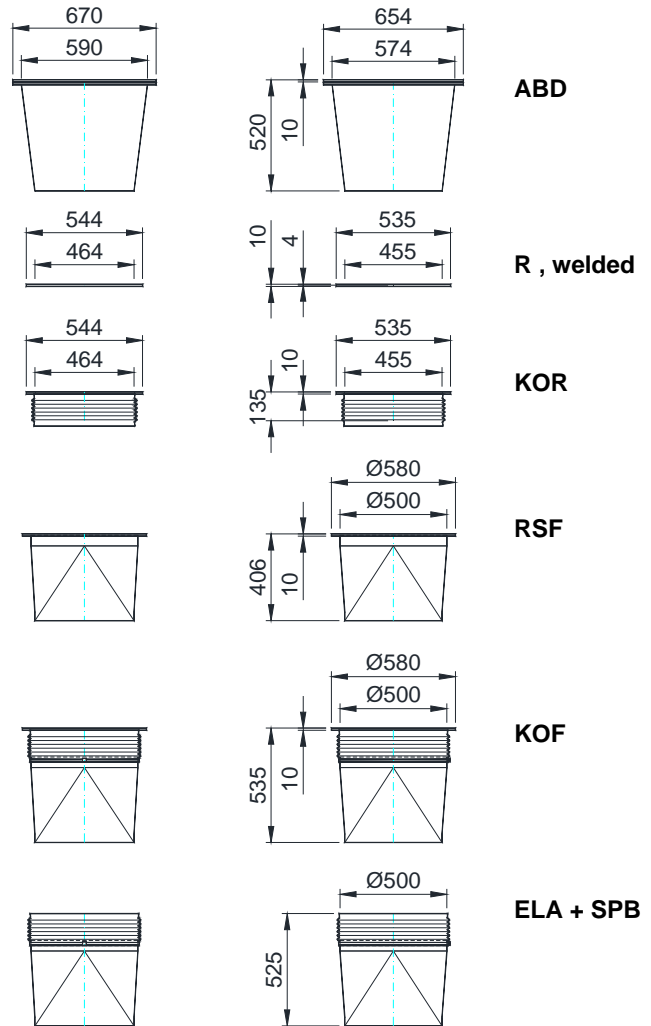


CASING CONNECTIONS

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.

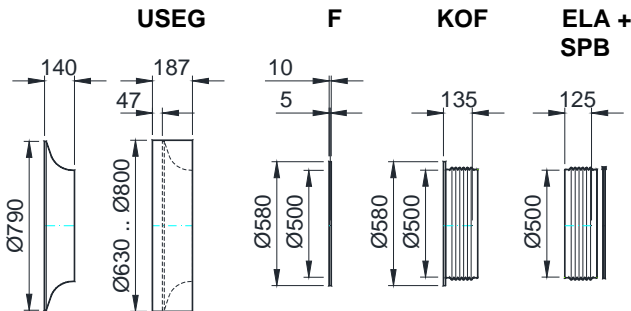
Pressure side casing connection

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

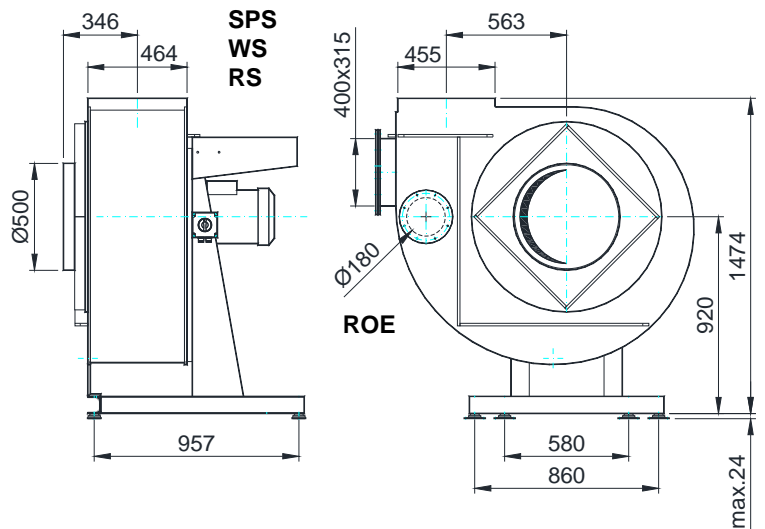


Suction side casing connection

Casing material: all



Accessories



Condensate drain

Casing material: all

