

Plastic radial fans

VRE 400

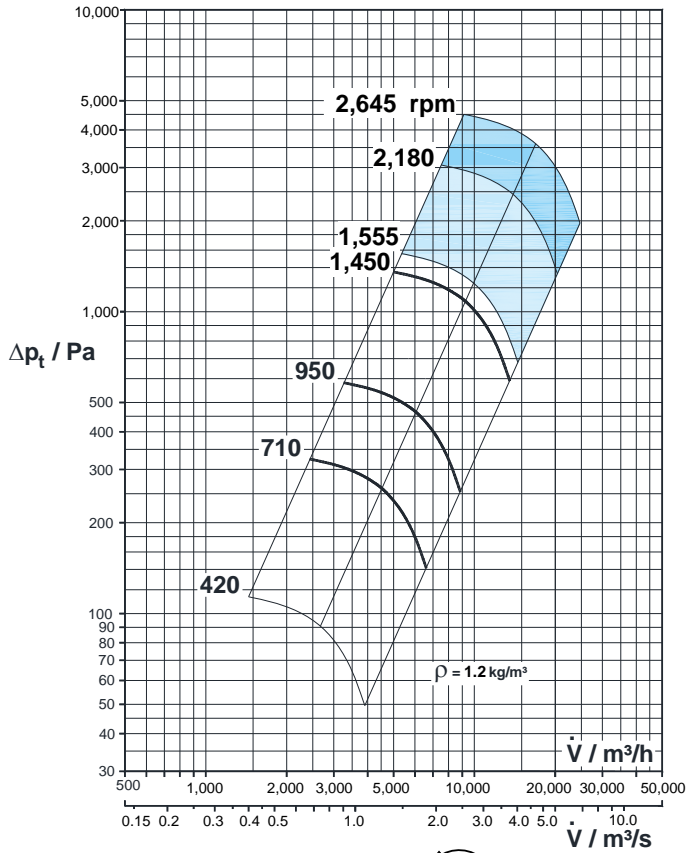
Diagrams



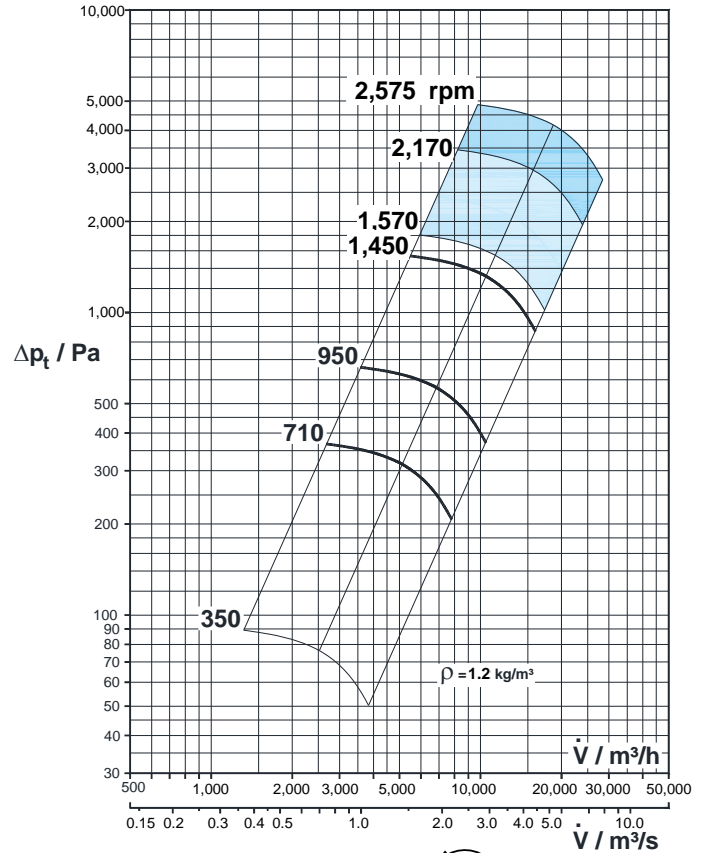
DE WIT
ventilatoren



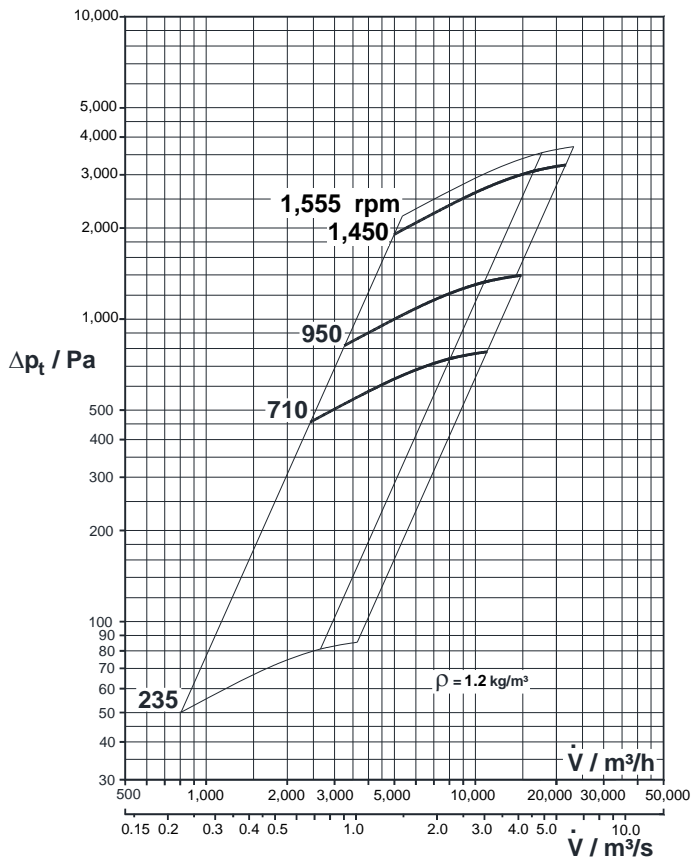
Impeller type 731



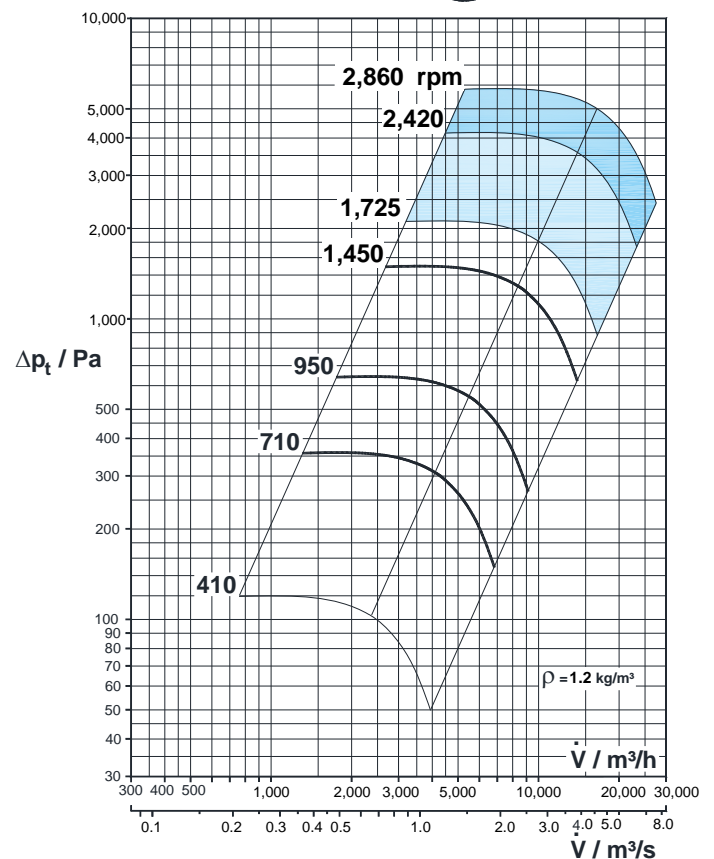
Impeller type 733



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 400/731W710	710	0.483	0.55	1.63	110	55	72	59	65	69	66	62	60	57	53	- ³⁾
VRE 400/731W950	950	1.160	1.50	3.70	123	61	79	66	70	76	73	68	65	63	58	Level 2 ⁴⁾
VRE 400/731W1450	1,450	4.110	5.50	10.80	149	68	86	73	76	84	80	75	72	69	60	Level 2 ⁴⁾
VRE 400/731W1450	2,645 ¹⁾	25.000	30.00	55.00	364	82	99	86	89	97	92	87	84	80	71	Level 2 ⁵⁾
VRE 400/733W710	710	0.776	1.10	3.00	119	58	75	62	67	71	66	62	60	57	55	- ³⁾
VRE 400/733W950	950	1.860	2.20	5.50	139	64	82	69	74	79	73	68	65	63	60	Level 2 ⁴⁾
VRE 400/733W1450	1,450	6.610	7.50	14.30	164	71	89	76	79	87	80	75	72	69	63	Level 2 ⁵⁾
VRE 400/733W1450	2,645 ¹⁾	37.000	37.00	66.00	409	84	101	88	92	100	92	87	83	80	73	Level 2 ⁵⁾
VRE 400/734W710	710	3.790	4.00	10.20	180	62	79	63	65	72	77	72	67	63	52	Level 2
VRE 400/734W950	950	9.080	11.00	23.00	231	68	85	70	74	78	82	75	70	64	54	Level 2 ⁵⁾
VRE 400/734W1450	1,450	29.500	30.00	55.00	366	75	93	77	81	84	87	88	83	78	66	Level 2 ⁵⁾
VRE 400/734W1450	1,555 ¹⁾	37.000	37.00	66.00	411	77	95	79	83	86	89	90	85	80	68	Level 2 ⁵⁾
VRE 400/673W710	710	0.564	0.75	2.25	121	55	73	62	67	67	66	65	58	52	44	- ³⁾
VRE 400/673W950	950	1.350	1.50	3.70	128	61	78	68	73	72	71	70	63	57	49	Level 2 ⁴⁾
VRE 400/673W1450	1,450	4.810	5.50	10.80	154	69	87	77	80	82	80	76	73	65	57	Level 2 ⁴⁾
VRE 400/673W1450	2,860 ¹⁾	37.000	37.00	66.00	409	85	103	88	97	98	97	93	88	83	73	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

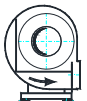
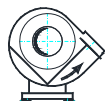
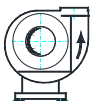
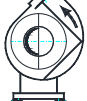
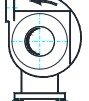
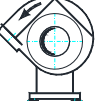
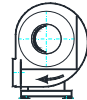



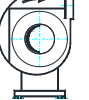
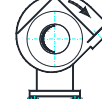
L_{WA} = A - evaluated noise level in the channel

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

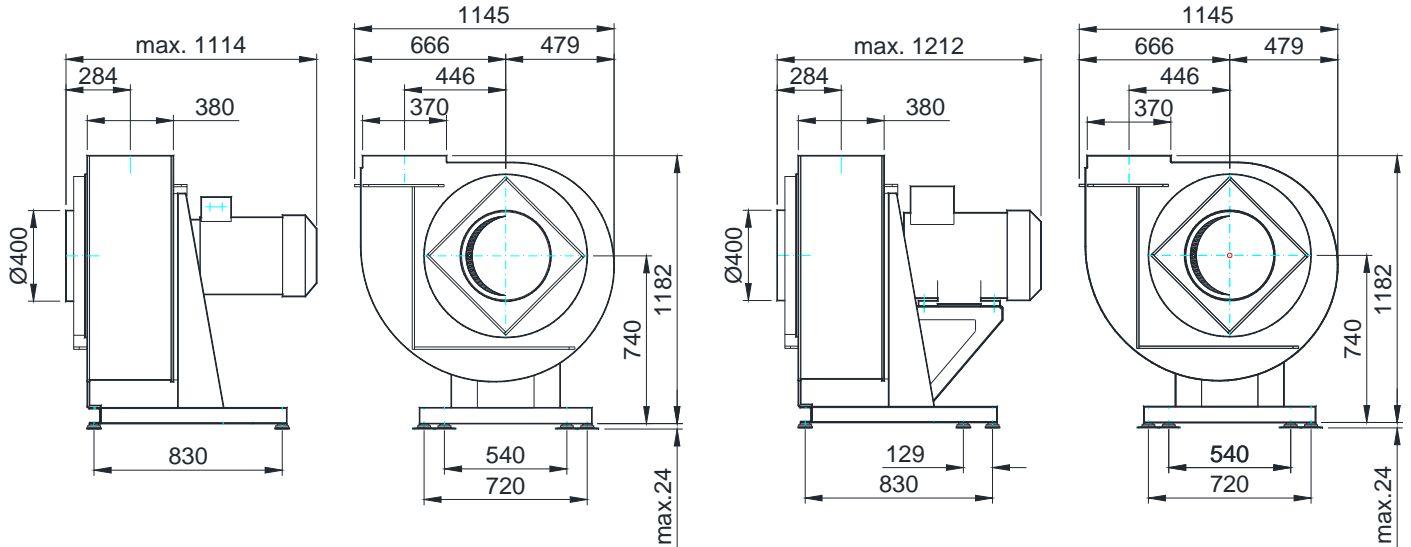
MAIN DIMENSIONS

Casing position 090R

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

for drive power: ≤ 15 kW

> 15 kW bis 37 kW

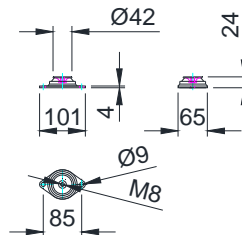


VIBRATION ISOLATION

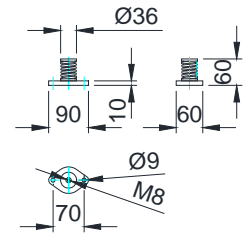
The manufacturer equips all fans with a set of rubber insulators of type 60-100SF that is designed for the size, speed and drive power of the fan.

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



Type MFI 40 M8



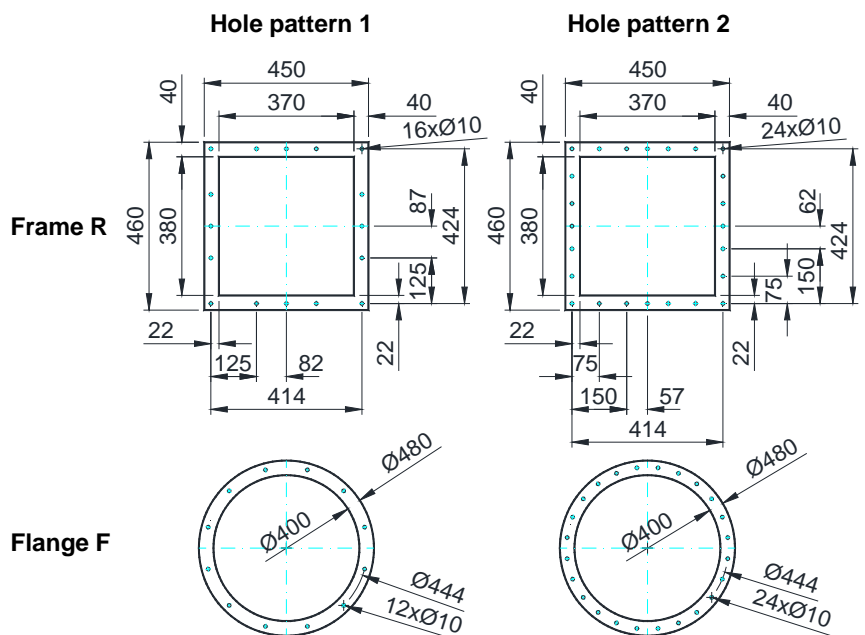
FRAME / FLANGE

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.

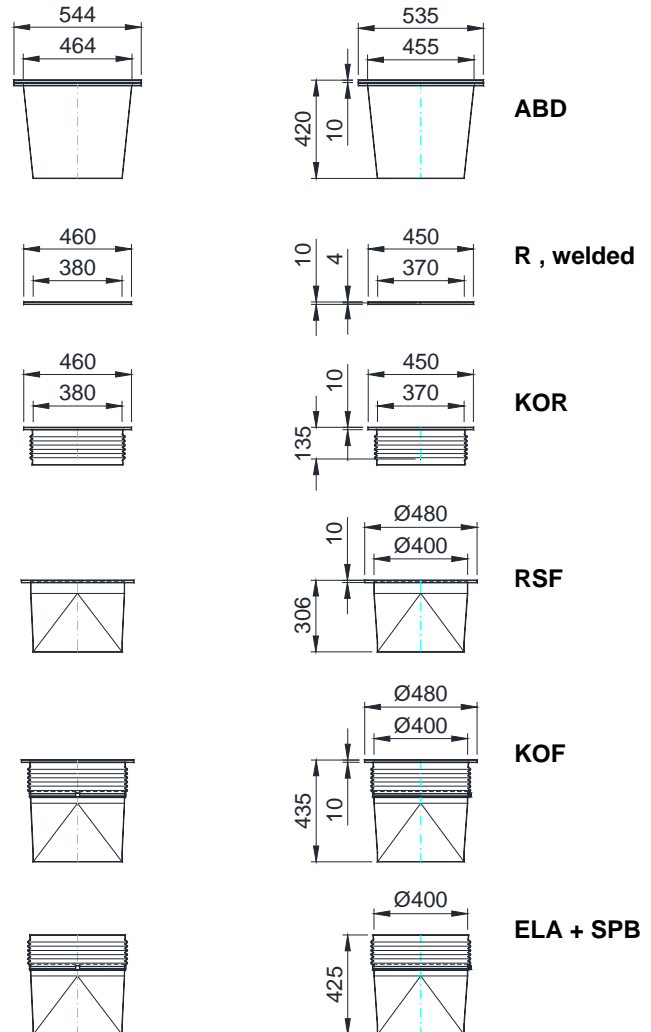


CASING CONNECTIONS

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.

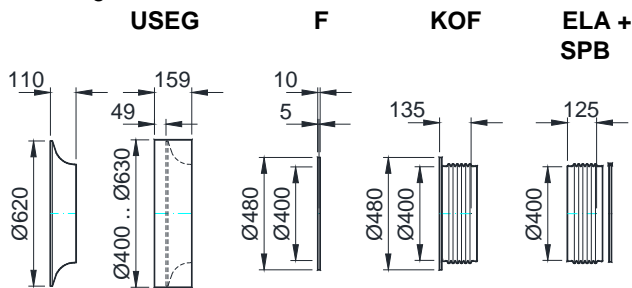
Pressure side casing connection

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

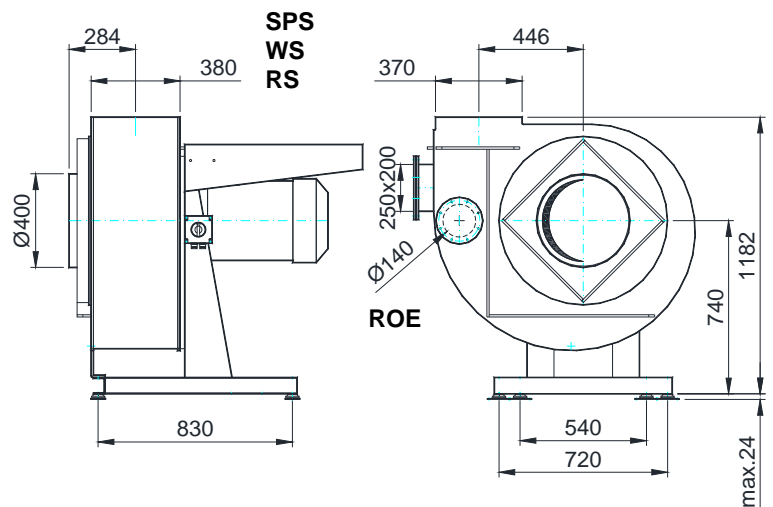


Suction side casing connection

Casing material: all



Accessories



Condensate drain

Casing material: all

