

Centrifugal Fan

Series
TFE TFF
TFG TRF
TRG TRH



 **EuroVent**

Symbols and measurement units used in the catalogue.

$V \text{ m}^3/\text{min}$	= Delivery in m^3/min
$V \text{ m}^3/\text{h}$	= Delivery in m^3/h
$pt \text{ mmH}_2\text{O}$	= Total pressure in $\text{mm H}_2\text{O}$
$pt \text{ Pa}$	= Total pressure in Pascal
$pd \text{ mmH}_2\text{O}$	= Dynamic pressure in $\text{mm H}_2\text{O}$
$pd \text{ Pa}$	= Dynamic pressure in Pascal
$c2$	= Speed in m/s on pressing throat
n	= Fan rounds
Lp	= Noise level indicated in dB/A
P	= Power absorbed in kW
η	= Fan output

Table of positions of discharge

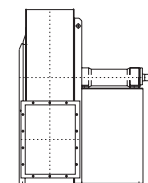
	0	45	90	135	180	225	270	315
LG								
RD								
	H1			H2			H	

Fans constructive executions in conformity with rules UNI EN ISO 13349 (2009).

EXECUTION 1

For belt drive. Wheel keyed overhung. Supports mounted on a base outside the air stream. Max air temperature 90°C without cooling fan; 350°C when fitted with cooling fan.

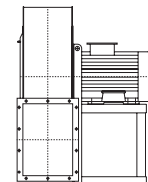
ESEC. 1



EXECUTION 4

For direct drive. Wheel keyed to motor shaft. Motor is supported by the base. Max air temperature 80°C ; when fitted with cooling fan 150°C .

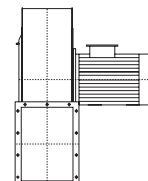
ESEC. 4



EXECUTION 5

For direct drive. Wheel keyed to motor shaft. Motor is supported by the case. Max air temperature 60°C ; when fitted with cooling fan 130°C .

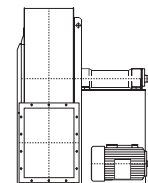
ESEC. 5



EXECUTION 9

For belt drive. Same as arrangement 1 with motor supported by the side wall of base. Max air temperature: 90°C without cooling fan; 350°C when fitted with cooling fan.

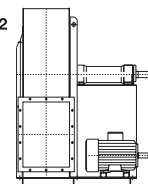
ESEC. 9



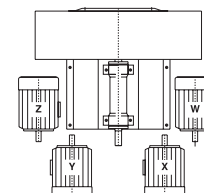
EXECUTION 12

For belt drive. Same as arrangement 1 with both fan and motor supported by the foundation frame. Max. air temperature: 90°C without cooling fan; 350°C when fitted with cooling fan.

ESEC. 12



Plan for motor positioning belt drive.



General concepts about centrifugal fans

The centrifugal fan essentially in a scroll in which a wheel rotates. The wheel's movement is caused by an external energy source, that is usually an electric motor. The main characteristics of a centrifugal fan are:

- a) delivery
- b) pressure
- c) efficiency
- d) rotation speed

DELIVERY

It is indicated by the value of the fluid intaken through the fan in the time unit; normally this is stated by the ratio m³/sec., m³/min., or m³/h.

PRESSURE

It is usually indicated by the ratio kgf/m² or Pa. The pressure generated through a fan is named TOTAL (pt); it is the sum of two different pressures: STATIC + DYNAMIC. The static pressure (p.s.) is the potential energy that wins the circuit resistance when the fluid is passing through the circuit. The dynamic pressure (pd) is the kinetic energy of the moving fluid and it depends on the medium exit speed of the air from the fan throat; the formula is:

$$pd = \frac{C^2}{2g} \cdot 1,226 \quad C = \frac{V}{A}$$

where:

- V = delivery m³/sec.
- A = throat surface m²
- c = medium speed of the air m/sec.
- g = acceleration of gravity (9,81 m/sec)
- 1,226 = air specific gravity kg/m³ at 15°C and 760 mm Hg.

ENERGY

It consists in the ratio between the energy supplied by the fan to the fluid and the energy used by the external source to put in operation the fan.

The formula is:

$$\eta = \frac{V \cdot pt}{6120 \cdot P}$$

where:

- V = delivery m³/min.
- pt = total pressure kgf/m²
- P = used energy by the fan indicated in kW
- η = fan efficiency

ROTATION SPEED

It is indicated by the number of rounds per minute: at this speed the wheel must rotate in order to get the required performances. N.B. The following tables show the characteristics of an operating device at air 15°C, barometric pressure 760 mm Hg, specific gravity 1,226 kg/m³, test according to UNI EN ISO 5801:2009 (UNI 10531:1995) rules. If customer wishes get different performances with intermediary value in respect of the value shown in the tables or if he prefers a device operating with air suction at different temperature in respect of 15°C and with different specific gravity in respect of 1,226 we suggest to follow these rules the characteristics of fans change according to the variation in speed rotation and considering the specific gravity of the fluid intaken.

- a) Variation of rotation speed (n) with air specific gravity constant.
- 1. The delivery (V) varies directly with rotations ratio:

$$V_1 = V \cdot \frac{n^1}{n}$$

- 2. The pressure varies with square number of rotations ratio:

$$pt_1 = pt \cdot \left(\frac{n^1}{n} \right)^2$$

- 3. The energy (P) varies with cube of rotations ratio:

$$P_1 = P \cdot \left(\frac{n^1}{n} \right)^3$$

- b) Variations of specific gravity (γ) of the air when rotation speed is constant.

- 1. The delivery (V) remains constant.
- 2. The pressure (pt) and the energy (P) vary directly with the ratio of specific gravities.

$$pt_1 = pt \cdot \frac{\gamma^1}{\gamma} \quad P_1 = P \cdot \frac{\gamma^1}{\gamma}$$

The specific gravity of the air at different temperatures is obtained through the formula:

$$\gamma = \frac{1,293 \cdot 273}{(273+t)} \quad (\text{kg/m}^3)$$

The air density depending on a change of the atmospheric pressure is given by the following formula:

$$\gamma = \frac{Pb \cdot 13.59}{29.27 \cdot (273 + t)} \quad (\text{kg/m}^3)$$

where:

- γ = specific gravity at °C
- 1,293 = specific gravity of the air at 0°C
- t = air temperature indicated in °C
- 273 = absolute zero
- Pb = atmospheric pressure mm Hg

This table shows directly the air specific gravity at different temperatures:

t°C	-20	-10	0	+10	+15	+20	+30	+40	+50	+60	+70	+80	+90	+100	+120	+140	+160	+180	+200	+220	+240	+260	+280	+300	+325	+350
γ	1,396	1,342	1,293	1,248	1,226	1,205	1,165	1,128	1,093	1,060	1,029	1,000	0,973	0,947	0,90	0,85	0,82	0,78	0,75	0,72	0,69	0,66	0,64	0,62	0,59	0,56

Atmospheric pressure depending on altitude above sea-level:

mt	0	500	1000	1500	2000	2500	3000	3500	4000	4500
Pb mm Hg	760	720	680	640	600	560	530	500	470	440

CHARACTERISTICS

The features listed in the diagrams are referred to air at the temperature of + 15°C and at the barometrical pressure of 760 mm. Hg with specific gravity 1,226 Kg/m³.

NOISE LEVEL

The noise level values indicated are expressed in decibel scale A (dB/A) they are understood measured in a free range at the distance of **1.5 m** from the fan operating with the highest output capacity, connected to inlet and outlet pipe connections (rules UNI EN ISO 3740-3744-3746-13347).

ORIENTATIONS

All the fans can be constructed with the delivery mouth in 16 different positions (8 in clockwise rotation RD and 8 in counterclockwise rotation LG) as indicated on the orientation tables. Please note that the direction of rotation is determined by looking at the fan from the transmission side. Some sizes of these fans are revolvable always considering the rotation direction. This information is indicated at the end of the various tables of the overall dimensions. Flange see DIN 24154-24158.

ACCESSORIES (delivery on request)

- **intaking and pressing counterflange;**
- **inspection door:** to inspect and to clean the wheel and the scroll inside;
- **discharge cap:** it eliminates the condensate if any inside the fan and it is situated on the lowest part of the scroll.
- **vibrating proof joints in intaking and pressing time:** they are used to avoid the spreading of vibrations to the pipes;
- **safety grate for intaking throat:** it is used to avoid accidents when the fan is intaking from the room;
- **regulation lock on delivery:** it is used to regulate the fan delivery;
- **regulator of the flow rate in intaking time:** it is used to regulate the fan flow rate and it maintains high the efficiency level, also in regulating time.

SPECIAL CONSTRUCTIONS

Spark proof construction: when explosive fluids are carried or when the plant is installed in dangerous environments, the parts that come into contact with the intaken fluid are constructed by material without iron content to avoid rubbing, motor on request is supplied in special construction.

Corrosionproofing construction: when corrosive fluids are carried, the parts that come into contact with the fluid are painted with special paints or they are constructed with special materials as austenitic stainless steels (AISI 304-316 etc.).Constructions can be effected according to the customer's particular needs.

SOME VALUES OF AIR SPEED THAT MUST BE OBSERVED INSIDE THE IRON PIPES FOR SUCTION PLANTS, RELATING TO FOLLOWING MATERIALS:

Cereals dust	16–19 m/s
Varnish dust	15–18 m/s
Wooden shaving and sawdust	18–24 m/s
Dry dust of chemicals	17–20 m/s
Coal dust	20–25 m/s
Dust of plastic material working	18–23 m/s
Foundry fumes	15–18 m/s
Lapping sharpening and bufing wheels	20–25 m/s
Fumes of solvents for degreasing	12–17 m/s
Metallic shaving and dust	25–38 m/s
Rubber dust	17–20 m/s
Any toxic dust	15–25 m/s
Zinc oxide dust	18–21 m/s
Saw dust of marble	20–25 m/s
Hides buffing	18–23 m/s

SOME DATA ABOUT THE NUMBER OF THE AIR CHANGINGS FORESEEN IN CIVIL, INDUSTRIAL AND AGRICULTURAL ENVIRONMENTS:

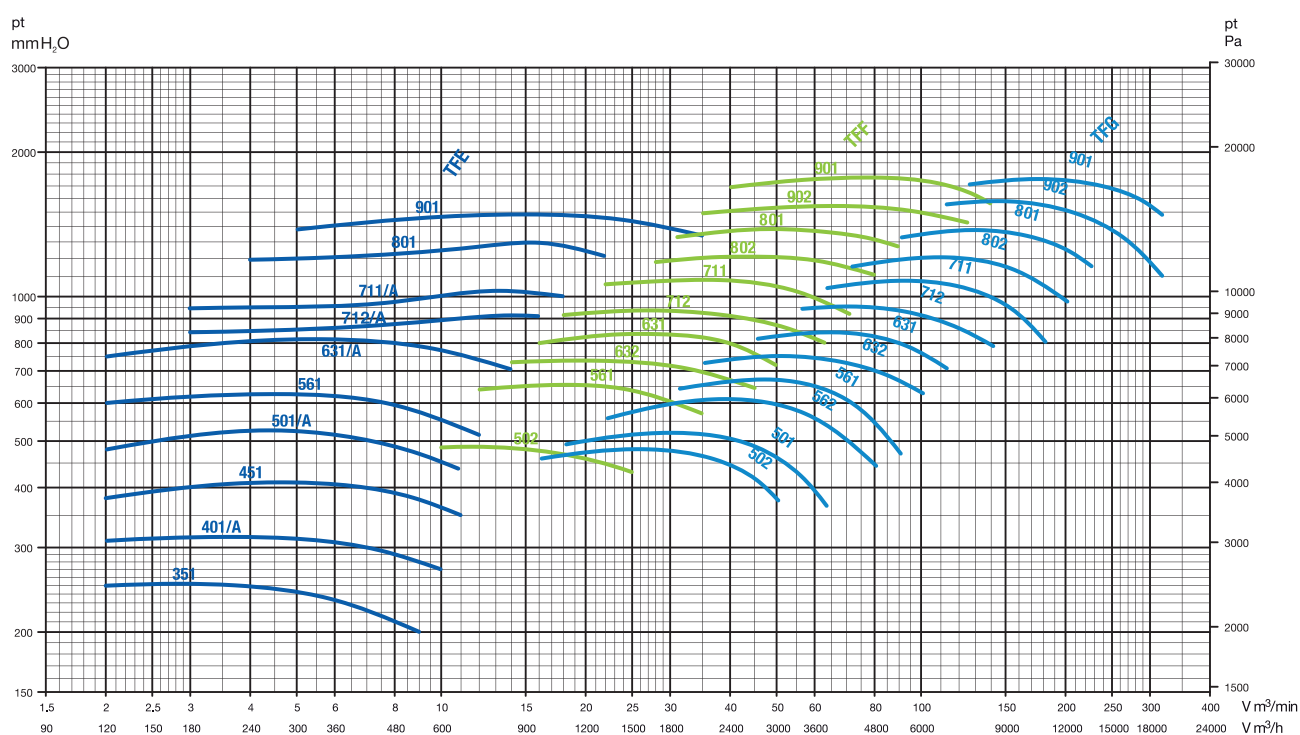
Enviroments	No. changings/hour				
Hen - hutch	8	Hide drying processes	35	Shops	5
Bovine - swine breeding	10	Facories for rubber production	12	Hospitals	6
Hotel halls -rooms - corridors	4	Factories for alimentary pastes	6	Gymnasiums	20
Garages	8	Factories for chemicals production	15	Baker shops	15
Banks	6	Joineries	6	Swimming-pools	25
Bathrooms - showerbaths	6	Spinning - and weaving mills	5	Dance-halls	20
Galvanic baths	25	Foundries	25	Card-rooms	10
Carpenter shops - welding shops	12	Forge shops	25	Waiting-rooms	10
Heating plants	60	Steam laundries	30	Schools	6
Churches	15	Rooms for electric furnaces	30	Metallurgical works	5
Coffee - houses - bars - restaurants	10	Rooms for furnace	20	Supermarkets	5
Cinemas - theatres	15	Warehouses for perishable goods	15	Dyeing plants	30
Dye works	15	Warehouses for unperishable goods	5	Printing shops	20
Tanneries	18	Tobacco manufactures	12	Toilettes	30
		Grinding mills	20	Technical departments	15

series TFE-TFF-TFG SPECIFICATIONS

USE:

Also for the suction of very dusty air. The fans of this series are particularly suitable for pneumatic conveyances, in cement factories, in the air feeding of the cupolas, in foundries and in oil burners, in mills, in "pasta" factories, in chemical, metallurgical and iron industries where small capacities with medium and high pressures are required. The temperature of the fluid sucked in must not exceed 80°C.

CHARACTERISTIC CURVE IN DISCHARGE STAGE SERIES TFE-TFF-TFG





TFE

SERIES

SPECIFICATIONS IN DISCHARGE STAGE

Type			*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	in sec.	SPECIFICATIONS IN PROPORTIONAL STAGE																							
								V = m³/min																							
Fan	Motor							2	3	4	5	5,6	6,3	7,1	8	9	10	11	12	14	16	18	20	22	25	28	31	35			
Pt = mm H ₂ O																															
TFE 351/B	71 A2	0,35	0,37	2770	69	6	250	252	245	240																					
TFE 351/A	71 B2	0,52	0,55	2770	70	5	250	252	245	240	235	228	220	212	200																
TFE 401/A	80 A2	0,70	0,75	2830	72	6	310	315	315	312	310	307	302	296	288	270															
TFE 451/B	80 A2	0,70	0,75	2830	73	10	380	400	410	410	408																				
TFE 451/A	80 B2	1,0	1,1	2830	74	9	380	400	410	410	408	402	398	388	378	362	350														
TFE 501/A	90 S2	1,4	1,5	2840	76	9	480	500	520	525	520	505	498	482	470	455	440														
TFE 561/B	90 S2	1,4	1,5	2840	77	10	600	620	625	625	620	615	605																		
TFE 561/A	90 L2	2,0	2,2	2850	78	9	600	620	625	625	620	615	605	595	585	575	550	500													
TFE 631/A	100 LA2	2,7	3	2880	79	10	750	785	805	815	815	815	805	800	780	770	750	730	700												
TFE 712/A	112 M2	3,8	4	2900	82	13		845	850	850	855	860	865	875	880	890	905	910	915	910											
TFE 711/A	132 SA2	5,3	5,5	2900	83	12		945	950	950	955	960	965	975	990	1000	1015	1020	1030	1020	1000										
TFE 801/C	132 SA2	5,3	5,5	2900	84	16			1200	1200	1205	1210	1215	1220	1230	1240	1250														
TFE 801/A	132 SB2	7	7,5	2900	85	11			1200	1200	1205	1210	1215	1220	1230	1240	1250	1270	1290	1300											
TFE 801/B	132 MB2	8,5	9	2900	86	10			1200	1200	1205	1210	1215	1220	1230	1240	1250	1270	1290	1300	1290	1250	1210								
TFE 901/B	160 MF2	10	11	2900	87	15					1380	1390	1400	1410	1420	1450	1460	1465	1470	1475	1475	1470	1435								
TFE 901/C	160 M2	14	15	2900	88	12					1380	1390	1400	1410	1420	1450	1460	1465	1470	1475	1475	1470	1435	1400	1380	1350					

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = kg/m² × 9,807

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	in sec.	V = m³/min																											
							Pt = mmH₂O																											
Fan	Motor						2	3	4	5	5,6	6,3	7,1	8	9	10	11	12	14	16	18	20	22	25	28	31	35							
TFE 351/B	71 A2	0,35	0,37	2770	71	6	247	248	242	237																								
TFE 351/A	71 B2	0,52	0,55	2770	72	5	247	248	242	237	232	225	215	207	194																			
TFE 401/A	80 A2	0,70	0,75	2830	74	6	304	308	307	305	302	300	292	288	278	250																		
TFE 451/B	80 A2	0,70	0,75	2830	75	10	368	385	395	395	393																							
TFE 451/A	80 B2	1,0	1,1	2830	76	9	368	385	395	395	393	388	380	375	362	352	340																	
TFE 501/A	90 S2	1,4	1,5	2840	78	9	462	480	492	492	490	485	478	468	455	440	425																	
TFE 561/B	90 S2	1,4	1,5	2840	79	10	575	595	605	605	600	585	580																					
TFE 561/A	90 L2	2,0	2,2	2850	80	9	575	595	605	605	600	585	580	575	565	545	530	505																
TFE 631/A	100 LA2	2,7	3	2880	82	10	700	745	760	770	770	765	760	755	740	725	705	680	650															
TFE 712/A	112 M2	3,8	4	2900	85	13		770	772	775	782	787	792	798	810	812	820	826	830	828														
TFE 711/A	132 SA2	5,3	5,5	2900	86	12		850	855	855	860	865	870	880	890	895	910	915	925	915														
TFE 801/C	132 SA2	5,3	5,5	2900	87	16			1045	1050	1050	1052	1057	1064	1072	1080	1088																	
TFE 801/A	132 SB2	7	7,5	2900	88	11			1045	1050	1050	1052	1057	1064	1072	1080	1088	1104	1119	1123														
TFE 801/B	132 MB2	8,5	9	2900	89	10			1045	1050	1050	1052	1057	1064	1072	1080	1088	1104	1119	1123	1114	1093	1060											
TFE 901/B	160 MP2	10	11	2900	90	15				1300	1305	1310	1320	1325	1330	1340	1345	1340	1335	1325	1315	1295	1285											
TFE 901/C	160 M2	14	15	2900	91	12					1300	1305	1310	1320	1325	1330	1340	1345	1340	1335	1325	1315	1295	1285	1270	1255								

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = kgf/m² × 9,807



SERIES TFF
SPECIFICATIONS IN DISCHARGE STAGE

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																											
						Pt = mm H ₂ O																											
Fan	Motor	10	11	12	14	16	18	20	22	25	28	31	35	40	45	50	56	6³	71	80	90	100	112	125	140								
TFF 502/A	90 L2	485	485	485	480	475	470																										
TFF 502/B	100 LA2	485	485	485	480	475	470	460	455	430																							
TFF 561/A	112 M2			640	645	655	655	655	650	640																							
TFF 561/B	132 SA2			640	645	655	655	655	650	640	620	600	570																				
TFF 632/A	132 SA2				730	735	735	735	730	725	720																						
TFF 632/B	132 SB2				730	735	735	735	730	725	720	710	690	670	650																		
TFF 631/A	132 SB2						810	820	830	835	835	835	830																				
TFF 631/B	132 MB2					800	810	820	830	835	835	835	830	800	760	720																	
TFF 712/A	132 SB2						915	925	935	935	935	935																					
TFF 712/B	132 MB2						915	925	935	935	935	935	925																				
TFF 712/C	160 MFR2						915	925	935	935	935	935	925	905																			
TFF 712/D	160 M2						915	925	935	935	935	935	925	905	885	855	800																
TFF 711/A	160 MFR2								1060	1065	1070	1080	1080	1080																			
TFF 711/B	160 M2								1060	1065	1070	1080	1080	1080	1080	1050	1030																
TFF 711/C	160 L2								1060	1065	1070	1080	1080	1080	1080	1050	1030	990	925														
TFF 802/A	160 M2										1180	1190	1210	1225	1215																		
TFF 802/B	160 L2										1180	1190	1210	1225	1215	1200	1190	1160															
TFF 802/C	180 M2										1180	1190	1210	1225	1215	1200	1190	1160	1140	1120													
TFF 801/A	160 M2											1330	1340	1360																			
TFF 801/B	160 L2											1330	1340	1360	1390																		
TFF 801/C	180 M2											1330	1340	1360	1390	1390	1390	1380															
TFF 801/D	200 LR2											1330	1340	1360	1390	1390	1390	1380	1360	1330	1270												
TFF 902/A	180 M2												1490	1500	1520	1540																	
TFF 902/B	200 LR2												1490	1500	1520	1540	1550	1550	1540														
TFF 902/C	200 L2												1490	1500	1520	1540	1550	1550	1540	1530	1490												
TFF 902/D	225 M2												1490	1500	1520	1540	1550	1550	1540	1530	1490	1450	1410										
TFF 901/A	200 LR2														1690	1730	1745	1750															
TFF 901/B	200 L2														1690	1730	1745	1750	1760	1750													
TFF 901/C	225 M2														1690	1730	1745	1750	1760	1760	1750	1750											
TFF 901/D	250 M2														1690	1730	1745	1750	1760	1760	1750	1750	1750										

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = kg/m² × 9,807

Capacity tolerance ± 5 %

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min ³ Pt = mm H ₂ O																								
						10	11	12	14	16	18	20	22	25	28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	
Fan	Motor					470	470	470	465	460	455																			
TFF 502/A	90 L2	2	2,2	2850	77	470	470	470	465	460	455																			
TFF 502/B	100 LA2	2,8	3	2880	78	470	470	470	465	460	455	445	435	410																
TFF 561/A	112 M2	3,7	4	2900	81			605	615	625	625	625	620	605																
TFF 561/B	132 SA2	5,2	5,5	2900	83			605	615	625	625	625	620	605	585	565	540													
TFF 632/A	132 SA2	5,2	5,5	2900	84				680	685	690	690	680	675	670															
TFF 632/B	132 SB2	7	7,5	2900	85				680	685	690	690	680	675	670	660	640	620	600											
TFF 631/A	132 SB2	7	7,5	2900	86					750	760	770	775	780	780	780	770													
TFF 631/B	132 MB2	8,5	9	2900	86					750	760	770	775	780	780	780	770	750	710	675										
TFF 712/A	132 SB2	7,	7,5	2900	86						840	850	860	860	860															
TFF 712/B	132 MB2	8,5	9	2900	87						840	850	860	860	860	860	850													
TFF 712/C	160 MR2	10	11	2900	87						840	850	860	860	860	860	850	850	830											
TFF 712/D	160 M2	14	15	2900	87						840	850	860	860	860	860	850	850	830	810	780	730								
TFF 711/A	160 MR2	10	11	2900	88								965	970	975	980	980	980												
TFF 711/B	160 M2	14	15	2900	88								965	970	975	980	980	980	980	955	930									
TFF 711/C	160 L2	18	18,5	2950	88								965	970	975	980	980	980	980	955	930	900	850							
TFF 802/A	160 M2	14	15	2950	88										1060	1070	1090	1105	1090											
TFF 802/B	160 L2	18	18,5	2950	88										1060	1070	1090	1105	1090	1080	1070	1040								
TFF 802/C	180 M2	21	22	2950	89										1060	1070	1090	1105	1090	1080	1070	1040	1020	1000						
TFF 801/A	160 M2	14	15	2950	88											1210	1230	1240												
TFF 801/B	160 L2	18	18,5	2950	88											1210	1230	1240	1250	1245										
TFF 801/C	180 M2	21	22	2950	89											1210	1230	1240	1250	1245	1240	1230								
TFF 801/D	200 LR2	28	30	2950	90											1210	1230	1240	1250	1245	1240	1230	1210	1180	1120					
TFF 902/A	180 M2	21	22	2950	91												1300	1310	1330	1350										
TFF 902/B	200 LR2	28	30	2950	92												1300	1310	1330	1350	1360	1360	1350							
TFF 902/C	200 L2	35	37	2950	92												1300	1310	1330	1350	1360	1360	1350	1350	1340	1300				
TFF 902/D	225 M2	42	45	2950	93												1300	1310	1330	1350	1360	1360	1350	1350	1340	1300	1260	1220		
TFF 901/A	200 LR2	28	30	2950	93													1500	1510	1525	1540									
TFF 901/B	200 L2	35	37	2950	93													1500	1510	1525	1540	1540	1540	1530						
TFF 901/C	225 M2	42	45	2950	93													1500	1510	1525	1540	1540	1540	1530	1525	1520				
TFF 901/D	250 M2	53	55	2950	94													1500	1510	1525	1540	1540	1540	1530	1525	1520	1510	1410	1330	

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = kg/m² x 9,807



TFG

SERIES

SPECIFICATIONS IN DISCHARGE STAGE

[illegible]Capacity tolerance $\pm 5\%$

* KW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

$$\text{Pa (Pascal)} = \text{kgf/m}^2 \times 9,807$$

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																														
						Pt = mm H₂O																														
						16	18	20	22	25	28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	160	180	200	225	250	280	315				
Fan	Motor																																			
TFG 502/A	100 LA2	2,8	3	2900	79	460	470	472	475	480																										
TFG 502/B	112 M2	3,7	4	2900	80	460	470	472	475	480	480	472	460																							
TFG 502/C	132 SA2	5,2	5,5	2900	82	460	470	472	475	480	480	472	460	438	418	388																				
TFG 501/A	112 M2	3,7	4	2900	81		490	500	510	525	530																									
TFG 501/B	132 SA2	5,2	5,5	2900	82		490	500	510	525	530	530	525	510	495																					
TFG 501/C	132 SB2	7	7,5	2900	83	490	500	510	525	530	530	530	525	510	495	470	438	375																		
TFG 562/A	132 SA2	5,2	5,5	2900	84			560	575	590	600	600	605																							
TFG 562/B	132 SB2	7	7,5	2900	84			560	575	590	600	600	605	605	595	590																				
TFG 562/C	132 MB2	8,5	9	2900	84			560	575	590	600	600	605	605	595	590	580	550																		
TFG 562/D	160 MR2	10	11	2900	85							640	660	670																						
TFG 561/A	132 SB2	7	7,5	2900	85							640	660	670	675	670	655																			
TFG 561/B	132 MB2	8,5	9	2900	85							640	660	670	675	670	655	640	605																	
TFG 561/C	160 MR2	10	11	2900	86							640	660	670	675	670	655	640	605	565	470															
TFG 561/D	160 M2	14	15	2900	86							640	660	670	675	670	655	640	605																	
TFG 632/A	132 MB2	8,5	9	2900	87								720	735	740																					
TFG 632/B	160 MR2	10	11	2900	88								720	735	740	745	745																			
TFG 632/C	160 M2	14	15	2900	88								720	735	740	745	745	735	720	690																
TFG 632/D	160 L2	17,5	18,5	2950	88								720	735	740	745	745	735	720	690	655	610														
TFG 631/A	160 M2	14	15	2950	89											795	815	825	830	830																
TFG 631/B	160 L2	17,5	18,5	2950	89											795	815	825	830	830	815	790														
TFG 631/C	180 M2	21	22	2950	89											795	815	825	830	830	815	790	760	695												
TFG 712/A	160 L2	17,5	18,5	2950	90												925	935	940																	
TFG 712/B	180 M2	21	22	2950	90												925	935	940	935	920	895														
TFG 712/C	200 LR2	28	30	2950	90												925	935	940	935	920	895	865	830	765											
TFG 711/A	180 M2	21	22	2950	90													1000	1020	1035																
TFG 711/B	200 LR2	28	30	2950	91													1000	1020	1035	1040	1035	1020													
TFG 711/C	200 L2	35	37	2950	91													1000	1020	1035	1040	1035	1020	990	950											
TFG 711/D	225 M2	42	45	2950	91													1000	1020	1035	1040	1035	1020	990	950	875	785									
TFG 802/A	200 LR2	28	30	2950	92													1110	1120	1135	1140	1135	1140													
TFG 802/B	200 L2	35	37	2950	92													1110	1120	1135	1140	1135	1130	1120	1070											
TFG 802/C	225 M2	42	45	2950	92														1110	1120	1135	1140	1135	1120	1070	1020	940									
TFG 802/D	250 M2	53	55	2950	92															1240	1270	1290	1290	1260												
TFG 801/A	225 M2	42	45	2950	93															1240	1270	1290	1290	1260												
TFG 801/B	250 M2	53	55	2950	93															1240	1270	1290	1290	1260												
TFG 801/C	280 S2	72	75	2950	93															1240	1270	1290	1290	1260	1220	1160	1090									
TFG 902/A	250 M2	53	55	2950	94																															
TFG 902/B	280 S2	72	75	2950	94																															
TFG 902/C	280 M2	87	90	2950	94																															
TFG 902/D	315 S2	106	110	2950	94																															
TFG 901/A	280 S2	72	75	2950	95																															
TFG 901/B	280 M2	87	90	2950	95																															
TFG 901/C	315 S2	106	110	2950	95																															
TFG 901/D	315 M2	130	132	2950	95																															

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = kg/m² x 9,807

SERIES TFE OVERALL DIMENSIONS AND WEIGHTS

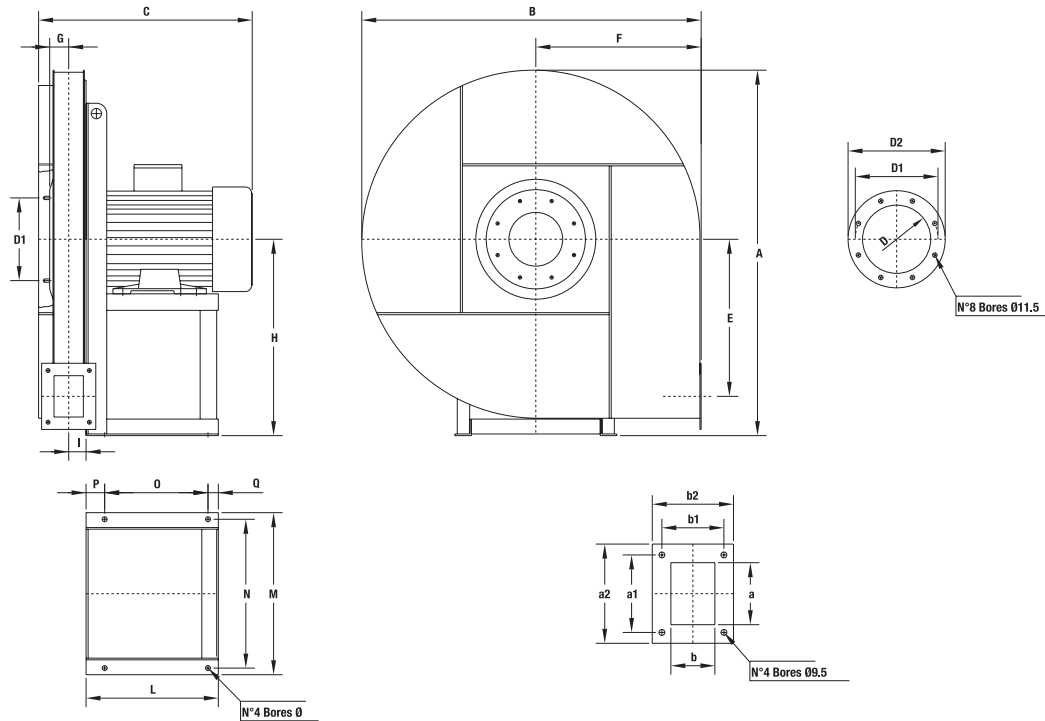
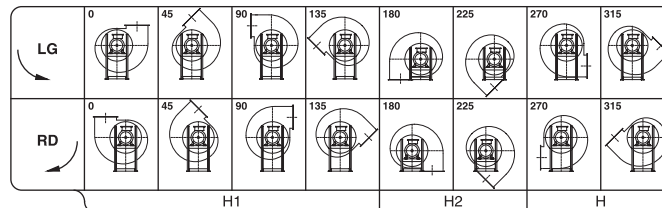


Table of discharge positions



The fan is revolvable

Type		Fan										Base								Inlet flange			Outlet flange						Weight	Pd ² GD ²
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	O	P	Q	ø	D	D ₁	D ₂	a	b	a ₁	b ₁	a ₂	b ₂	Kg	Kg m ²	
TFE 351/B TFE 351/A	71 A2 71 B2	560	520	310	223	250	42	300	300	300	36	190	235	215	125	50	15	10	145	182	215	90	63	112	90	150	123	23	0,3	
TFE 401/A	80 A2	560	520	330	223	250	42	300	300	300	36	190	235	215	125	50	15	10	145	182	215	90	63	112	90	150	123	24	0,4	
TFE 451/B TFE 451/A	80 A2 80 B2	670	620	330	280	300	42	355	355	355	37	190	235	215	125	50	15	10	145	182	215	90	63	112	90	150	123	33	0,6	
TFE 501/A	90 S2	670	620	370	280	300	42	355	355	355	38	215	270	245	137	60	18	10	145	182	215	90	63	112	90	150	123	35	1	
TFE 561/B TFE 561/A	90 S2 90 L2	790	730	390	330	355	46	425	425	425	42	215	270	245	137	60	18	10	165	200	235	100	71	125	100	160	131	51	1,6	
TFE 631/A	100 LA2	790	730	460	330	355	46	425	425	425	43	260	332	300	200	35	25	12	165	200	235	100	71	125	100	160	131	52	2,3	
TFE 712/A	112 M2	890	825	460	380	400	46	475	475	475	42	260	332	300	200	35	25	12	165	200	235	100	71	125	100	160	131	72	3,2	
TFE 711/A	132 SA2	890	825	520	380	400	46	475	475	475	42	320	392	360	250	45	25	12	165	200	235	100	71	125	100	160	131	78	3,2	
TFE 801/C TFE 801/A TFE 801/B	132 SA2 132 SB2 132 MB2	990	920	520	430	450	50	530	530	530	42	320	392	360	250	45	25	12	165	200	235	100	71	125	100	160	131	108	6,3	
TFE 901/B TFE 901/B	160 MR2 160 M2	1180	1100	680	520	530	56	630	630	630	49	425	440	400	340	55	30	14	185	219	255	112	80	140	112	172	140	175	10	

The above data are unbinding

Fan weight in kg (without motor)

SERIES TFF OVERALL DIMENSIONS AND WEIGHTS

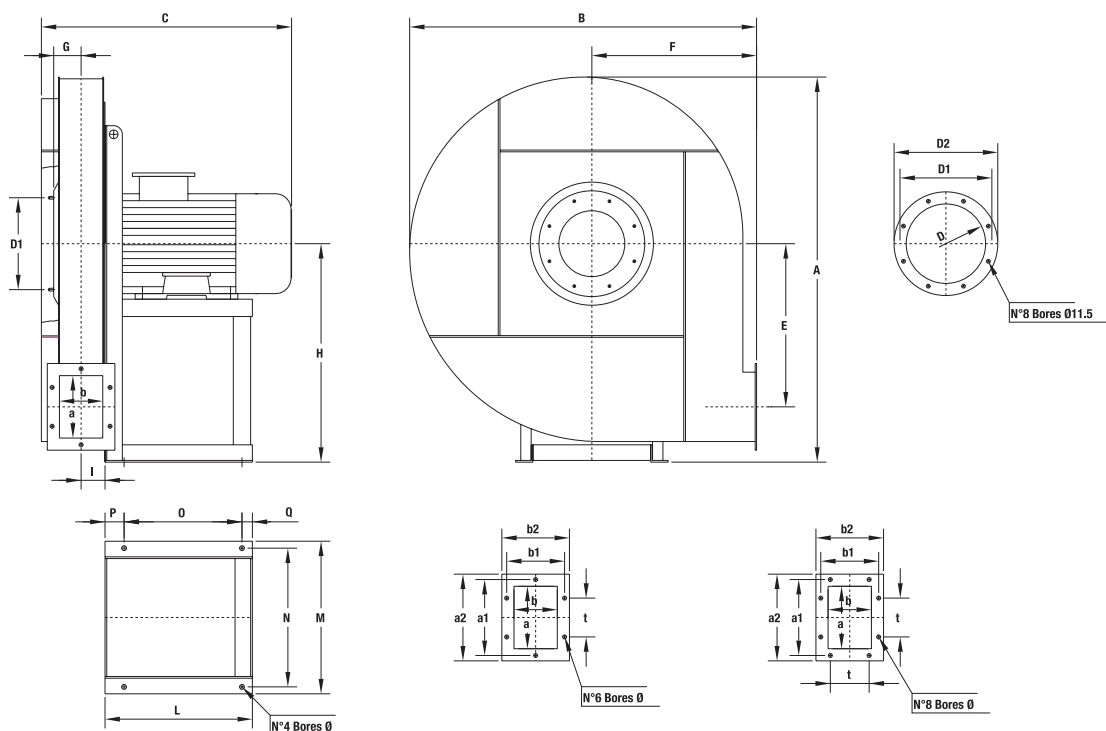
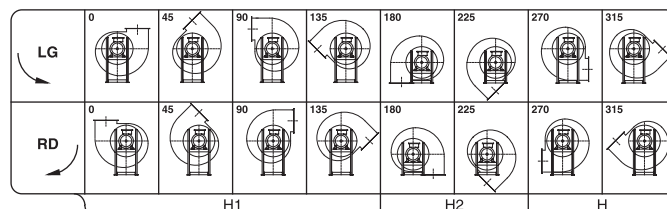


Table of discharge positions



The fan is revolvable

Type		Fan										Base								Inlet flange			Outlet flange										Weight	PD ² GD ²
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	O	P	Q	ø	D	D ₁	D ₂	a	b	a ₁	b ₁	a ₂	b ₂	t	N°	ø	Kg	Kg m ²		
TFF 502/A	90 L2	800	735	405	337	355	61	450	450	450	53	215	270	245	137	60	18	10	12	165	200	235	125	90	165	130	185	150	100	6	9,5	44	0,9	
TFF 502/B	100 LA2			475								260	332	300	200	35	25	12														46		
TFF 561/A	112 M2	900	830	490	380	400	65	500	500	500	58	260	332	300	200	35	25	12	185	219	255	140	100	182	141	210	170	112	6	11,5	60	2,1		
TFF 561/B	132 SA2											320	392	360	250	45	25	12														62		
TFF 632/A	132 SA2	1000	900	565	420	425	71	560	560	560	63	320	392	360	250	45	25	12	205	241	275	160	112	200	153	230	182	112	6	11,5	66	2,8		
TFF 632/B	132 SB2																																	
TFF 631/A	132 MB2																																3,2	
TFF 712/A	132 SB2			590								320	392	360	250	45	25	12														108		
TFF 712/B	132 MB2																																5,5	
TFF 712/C	160 MR2																																	
TFF 712/D	160 M2	1120	1010	725	470	475	80	630	630	630	71	425	440	400	340	55	30	14	229	265	299	180	125	219	167	250	195	112	6	11,5	141	6,2		
TFF 711/A	160 MR2																																	
TFF 711/B	160 M2																																	
TFF 711/C	160 L2																																	
TFF 802/A	160 M2											425	440	400	340	55	30															220		
TFF 802/B	160 L2											425	440	400	340	55	30																8,5	
TFF 802/C	180 M2											470	500	450	370	65	35	14														237		
TFF 801/A	160 M2	1250	1120	740	530	530	90	710	710	710	80	425	440	400	340	55	30		255	292	325	200	140	241	182	270	210	112	8	11,5	222			
TFF 801/B	160 L2											425	440	400	340	55	30																237	
TFF 801/C	180 M2											470	500	450	370	65	35																250	
TFF 801/D	200 LR2			815								500	570	510	385	75	40	16															302	
TFF 902/A	180 M2			765								470	500	450	370	65	35	14															325	
TFF 902/B	200 LR2			840								500	570	510	385	75	16																340	
TFF 902/C	200 L2			840								500	570	510	385	75	16																335	
TFF 902/D	225 M2	1410	1265	915	598	600	103	800	710	710	90	550	626	565	425	85	40	16	286	332	366	224	160	265	200	294	230	112	8	11,5	380	14,5		
TFF 901/A	200 LR2			840								500	570	510	385	75	16																380	
TFF 901/B	200 L2			840								500	570	510	385	75	16																400	
TFF 901/C	225 M2			915								550	626	565	425	85	19																	
TFF 901/D	250 M2			915								600	686	615	460	95	45	21																

The above data are unbinding

Fan weight in kg (without motor)

SERIES TFG OVERALL DIMENSIONS AND WEIGHTS

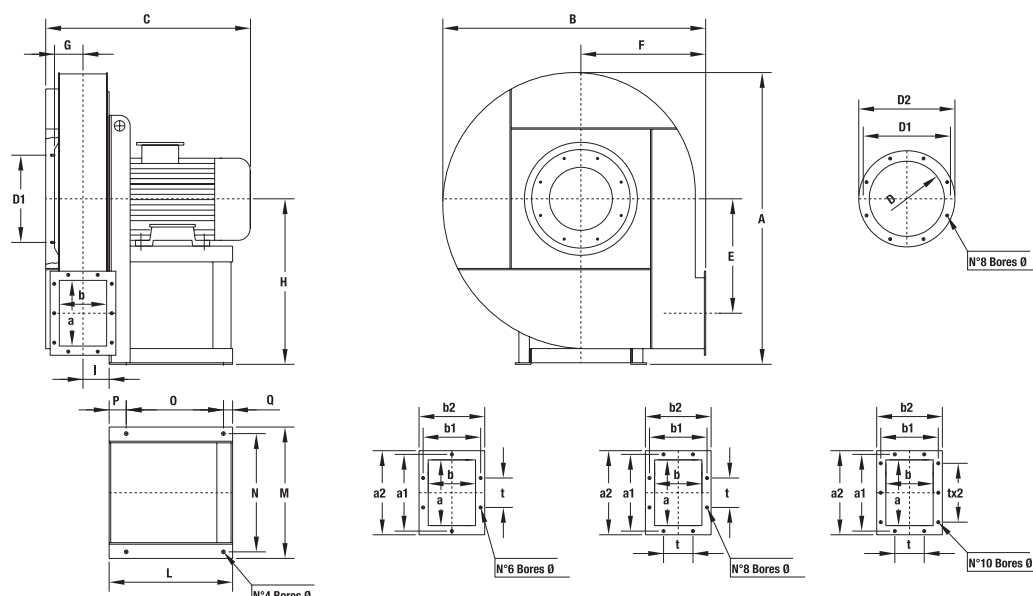
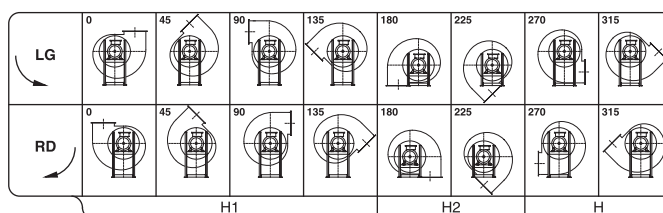


Table of discharge positions



The fan is revolvable

Type		Fan										Base								Inlet flange			Outlet flange											Weight	Pd² Gd²						
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	O	P	Q	ø	D	D ₁	D ₂	a	b	a ₁	b ₁	a ₂	b ₂	t	N°	ø	Kg	Kg m²									
TFG 502/A	100 LA2	800	735	510	310	355	77	450	450	355	69	260	332	300	200	35	25	12	205	241	275	180	125	219	167	250	195	112	6	11,5	46	1									
TFG 502/B	112 M2			510								260	332	300	200	35																									
TFG 502/C	132 SA2			570								320	392	360	250	45																									
TFG 501/A	112 M2			510								260	332	300	200	35																									
TFG 501/B	132 SA2			570								320	392	360	250	45															1,2										
TFG 501/C	132 SB2	570	320	392	360	250	45																																		
TFG 562/A	132 SA2	900	830	595	350	400	87	500	500	400	78	320	392	360	250	45	25	12	229	265	299	200	140	241	182	270	210	112	8	11,5		80	2								
TFG 562/B	132 SB2			595								320	392	360	250	45	25																								
TFG 562/C	132 MB2			595								320	392	360	250	45	25																								
TFG 562/D	160 MR2			730								425	440	400	340	55	30														14										
TFG 561/A	132 SB2			595								320	392	360	250	45	25														12	2,3									
TFG 561/B	132 MB2	595	320	392	360	250	45	25	12																																
TFG 561/C	160 MR2	730	425	440	400	340	55	30	14																																
TFG 561/D	160 M2	730	425	440	400	340	55	30	14																																
TFG 632/A	132 MB2	1000	930	750	388	425	100	560	560	425	88	320	392	360	250	45	25	12	255	292	325	224	160	265	200	294	230	112	8	11,5	98	2,9									
TFG 632/B	160 MR2																																								
TFG 632/C	160 M2																																								
TFG 632/D	160 L2																																								
TFG 631/A	160 M2																																	425	440	400	340	55	30	14	3,4
TFG 631/B	160 L2											425	440	400	340	55	30																								
TFG 631/C	180 M2			760								470	500	450	370	65	35																								
TFG 712/A	160 L2	1120	1005	780	435	475	110	630	630	475	98	425	440	400	340	55	30	14	286	332	366	250	180	292	219	320	250	112	10	11,5	171	5,6									
TFG 712/B	180 M2			790								470	500	450	370	65	35	14																							
TFG 712/C	200 LR2			855								500	570	510	385	75	40	16																							
TFG 711/A	180 M2			855								500	570	510	385	75	40	16																							
TFG 711/B	200 LR2			855								500	570	510	385	75	40	16													6,8										
TFG 711/C	200 L2	855	500	570	510	385	75	40	16																																
TFG 711/D	225 M2	930	550	626	565	425	85	40	19																																
TFG 802/A	200 LR2	1250	1120	875	490	530	120	710	710	530	110	500	570	510	385	75	40	16	321	366	401	280	200	332	249	360	280	125	10	11,5	255	9									
TFG 802/B	200 L2			875								500	570	510	385	75	40	16																							
TFG 802/C	225 M2			955								550	626	565	425	85	40	19																							
TFG 802/D	250 M2			960								600	686	615	460	95	45	21																							
TFG 801/A	225 M2			955								550	626	565	425	85	40	19													11										
TFG 801/B	250 M2	960	600	686	615	460	95	45	21																																
TFG 801/C	280 S2	1085	700	760	680	550	100	50	21																																
TFG 902/A	250 M2	1410	1265	1110	552	600	135	800	710	600	122	600	686	615	460	95	45	21	361	405	441	315	224	366	273	395	304	125	10	11,5	387	15									
TFG 902/B	280 S2																																								
TFG 902/C	280 M2																																								
TFG 902/D	315 S2																																								
TFG 901/A	280 S2																																		770	860	770	605	110	55	24
TFG 901/B	280 M2											770	860	770	605	110	55	21																							
TFG 901/C	315 S2											770	860	770	605	110	55	24																							
TFG 901/D	315 M2											770	860	770	605	110	55	24																							

The above date are unbinding

Fan weight in kg (without motor)

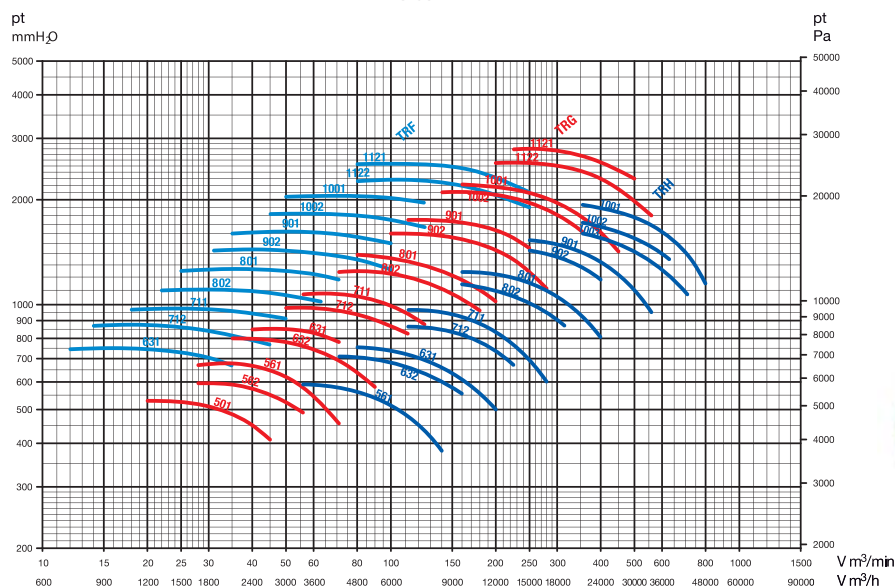
series TRF-TRG-TRH SPECIFICATIONS

USE:

For the suction of clean and dusty air. These types of high pressure fans are characterized by a high output with saving of electric power as they have a special fan wheel with reversed blades (Negative) assembled. These types of fans are particularly suitable for pneumatic conveyances, in cement factories, in the air feeding for the cupolas in foundries and in oil burners, in the mills, in "pasta" factories, in chemical, metallurgical and iron industries where small capacities with medium and high pressures are required. The temperature of the fluid sucked in must not exceed 80°C.

CHARACTERISTIC CURVE IN DISCHARGE STAGE SERIES TRF-TRG-TRH

2 Poles



TRF SPECIFICATIONS IN DISCHARGE STAGE

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																													
						Pt = mmH ₂ O																													
Fan	Motor					10	11	12	14	16	18	20	22	25	28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	160	180	200	225	250	
TRF 631/A	112 M2	3,7	4	2900	80			755	755	750	748	745	735																						
TRF 631/B	132 SA2	5,2	5,5	2900	82			755	755	750	748	745	735		725	715	695	675																	
TRF 712/A	132 SA2	5,2	5,5	2900	83			870	875	875	875	875	870	860																					
TRF 712/B	132 SB2	7	7,5	2900	83			870	875	875	875	875	870	860	850	840	820																		
TRF 712/C	132 MB2	8,5	9	2900	83			870	875	875	875	875	870	860	850	840	820	795	770																
TRF 711/A	132 SB2	7	7,5	2900	83						980	980	980	975	970	965																			
TRF 711/B	132 MB2	8,5	9	2900	83						980	980	980	975	970	965	960	950																	
TRF 711/C	160 MR2	10,5	11	2900	84						980	980	980	975	970	965	960	950	930	920															
TRF 802/A	132 MB2	8,5	9	2900	84						980	980	980	975	970	965	960	950																	
TRF 802/B	160 MR2	10,5	11	2900	84								1100	1105	1110	1110	1105	1095																	
TRF 802/C	160 M2	14	15	2900	84								1100	1105	1110	1110	1105	1095	1080	1070	1045	1020													
TRF 801/A	160 MR2	10,5	11	2900	84									1250	1255	1260	1265																		
TRF 801/B	160 M2	14	15	2900	84									1250	1255	1260	1265	1260	1250	1240															
TRF 801/C	160 L2	18	18,5	2950	84									1250	1255	1260	1265	1260	1250	1240	1230	1200	1180												
TRF 902/A	160 L2	18	18,5	2950	85											1430	1435	1440	1440	1430	1420	1400	1380												
TRF 902/B	180 M2	21	22	2950	85											1430	1435	1440	1440	1430	1420	1400	1380												
TRF 902/C	200 LR2	28	30	2950	86											1430	1435	1440	1440	1430	1420	1400	1380	1350											
TRF 901/A	160 L2	18	18,5	2950	86												1600	1610	1620	1620	1615														
TRF 901/B	180 M2	21	22	2950	86												1600	1610	1620	1620	1615	1600	1590	1575											
TRF 901/C	200 LR2	28,5	30	2950	87												1600	1610	1620	1620	1615	1600	1590	1575	1530	1500									
TRF 901/D	200 L2	35,5	37	2950	88												1600	1610	1620	1620	1615	1600	1590	1575	1530	1500									
TRF 1002/A	200 LR2	29	30	2950	91													1820	1825	1825	1820	1815													
TRF 1002/B	200 L2	35	37	2950	91													1820	1825	1825	1820	1815	1800	1780											
TRF 1002/C	225 M2	43	45	2950	91													1820	1825	1825	1820	1815	1800	1780	1750	1710	1670								
TRF 1001/A	200 L2	35	37	2950	91														2040	2050	2060	2060													
TRF 1001/B	225 M2	43	45	2950	91														2040	2050	2060	2060	2050	2040	2020										
TRF 1001/C	250 M2	53	55	2950	92														2040	2050	2060	2060	2050	2040	2020	2000	1960								
TRF 1122/A	280 S2	70	75	2950	93																			2260	2270	2280	2280	2270	2250						
TRF 1122/B	280 M2	85	90	2950	93																			2260	2270	2280	2280	2270	2250	2160	2120				
TRF 1122/C	315 S2	106	110	2950	94																			2260	2270	2280	2280	2270	2250	2160	2120	2100	2000	1900	
TRF 1121/A	280 M2	85	90	2950	95																			2530	2530	2550	2540	2530	2500						
TRF 1121/B	315 S2	105	110	2950	95																			2530	2530	2550	2540	2530	2500	2460	2410	2340			
TRF 1121/C	315 M2	125	132	2950	95																			2530	2530	2550	2540	2530	2500	2460	2410	2340	2100		
TRF 801/D	100 LB4	2,7	3	1450	70			300	302	305	305	300	298	295	292	285	270	255																	
TRF 902/D	112 M4	3,8	4	1450	71					350	352	355	355	352	350	345	340	330	320	305	290														
TRF 901/E	132 SA4	4,9	5,5	1450	72						400	400	400	400	398	395	388	380	370	360	345	330													
TRF 1002/D	132 MA4	6,5	7,5	1450	75										450	450	450	445	440	435	425	410	395	380											
TRF 1001/D	160 M4	9,5	11	1450	76										500	500	500	500	498	490	480	460	450	435											
TRF 1122/D	160 L4	14	15	1450	77												515	515	510	505	500	490	480	470	460	440	400								
TRF 1121/D	180 M4	16	18,5	1450	78													550	550	550	550	545	535	525	505	475	450								

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) =mmH₂O x 9,807

TRF

SERIES TRF SPECIFICATIONS IN SUCTION STAGE

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																											
						Pt = mm H ₂ O																											
Fan	Motor	10	11	12	14	16	18	20	22	25	28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	160	180	200	225	250			
TRF 631/A	112 M2			665	665	670	665	660	650																								
TRF 631/B	132 SA2			665	665	670	665	660	650	640	630	620	605																				
TRF 712/A	132 SA2			765	765	770	775	775	770	755																							
TRF 712/B	132 SB2			765	770	775	775	775	770	755	745	740	725																				
TRF 712/C	132 MB2			765	770	775	775	775	770	755	745	740	725	705	680																		
TRF 711/A	132 SB2						850	850	850	850	845	845																					
TRF 711/B	132 MB2						850	850	850	850	845	845	840	825																			
TRF 711/C	160 MR2						850	850	850	850	845	845	840	825	815	800																	
TRF 802/A	132 MB2							940	940	940	940	935																					
TRF 802/B	160 MR2							940	940	940	940	935	930	930																			
TRF 802/C	160 M2									940	940	935	930	930	925	915	900	880															
TRF 801/A	160 MR2									1060	1065	1065	1070																				
TRF 801/B	160 M2									1060	1065	1065	1070	1070	1065	1055																	
TRF 801/C	160 L2									1060	1065	1065	1070	1070	1065	1055	1045	1020	1000														
TRF 902/A	160 L2											1200	1200	1195	1190	1185	1180																
TRF 902/B	180 M2											1200	1200	1195	1190	1185	1180	1160	1145														
TRF 902/C	200 LR2											1200	1200	1195	1190	1185	1180	1160	1145	1120	1100	1080											
TRF 901/A	160 L2												1320	1330	1335																		
TRF 901/B	180 M2												1320	1330	1335	1335	1330																
TRF 901/C	200 LR2												1320	1330	1335	1335	1330	1320	1315	1300													
TRF 901/D	200 L2												1320	1330	1335	1335	1330	1320	1315	1300	1280	1250											
TRF 1002/A	200 LR2														1470	1475	1480	1480	1475														
TRF 1002/B	200 L2														1470	1475	1480	1480	1475	1455	1440												
TRF 1002/C	225 M2														1470	1475	1480	1480	1475	1455	1440	1410	1390	1350									
TRF 1001/A	200 L2															1620	1625	1630	1640														
TRF 1001/B	225 M2															1620	1625	1630	1640	1640	1625	1600											
TRF 1001/C	250 M2															1620	1625	1630	1640	1640	1625	1600	1590	1560									
TRF 1122/A	280 S2															1620	1625	1630	1640														
TRF 1122/B	280 M2																				1910	1920	1920	1920	1900	1890							
TRF 1122/C	315 S2																				1910	1920	1920	1920	1900	1890	1800	1730					
TRF 1121/A	280 M2																				1910	1920	1920	1920	1900	1890	1800	1730	1650	1530	1400		
TRF 1121/B	315 S2																				1910	1920	1920	1920	1900	1890	1800	1730	1650	1530	1400		
TRF 1121/C	315 M2																				2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							
																					2020	2025	2030	2030	2010	2000							

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) =mm H₂O x 9,807



SPECIFICATIONS IN DISCHARGE STAGE

Capacity tolerance $\pm 5\%$	* KW absorbed by fan at maximum capacity	Noise level tolerance $+ 3\text{ dB}$	Pa (Pascal) = $\times 9.807$
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Capacity tolerance $\pm 5\%$

KW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = x 9,807



SPECIFICATIONS IN SUCTION STAGE

Capacity tolerance $\pm 5\%$

Noise level tolerance + 3 dB

Capacity tolerance $\pm 5\%$

05/03/2015 9:27:55 AM

TRH SPECIFICATIONS IN DISCHARGE STAGE

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																														
						Pt =																														
Fan	Motor					28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	
TRH 561/A	132 MB2	8,5	9	2900	85							600	590	575	560																					
TRH 561/B	160 MR2	10,5	11	2900	86							600	590	575	560	545	510	480	430	385																
TRH 632/A	160 M2	14,5	15	2900	89									710	705	695	675	660	630																	
TRH 632/B	160 L2	18	18,5	2900	90									710	705	695	675	660	630	590	550															
TRH 631/A	160 M2	14,5	15	2900	90										760	750	735																			
TRH 631/B	160 L2	18	18,5	2950	90										760	750	735	720	690	660																
TRH 631/C	180 M2	21	22	2950	91										760	750	735	720	690	660	610	560	490													
TRH 712/A	200 LR2	28	30	2950	93											870	860	850	820	780	740	680														
TRH 711/A	200 LR2	28	30	2950	93											970	960	950	920																	
TRH 711/B	200 L2	35	37	2950	93											970	960	950	920	880	840	770	700	600												
TRH 802/A	225 M2	42	45	2950	93														1150	1120	1090															
TRH 802/B	250 M2	53	55	2950	94														1150	1120	1090	1060	1000	950	870											
TRH 801/A	250 M2	53	55	2950	94														1250	1230	1200	1180	1130													
TRH 801/B	280 S2	72	75	2950	95														1250	1230	1200	1180	1130	1100	1030	900	800									
TRH 902/A	280 M2	86	90	2950	96																	1430	1430	1400	1330	1270	1180									
TRH 901/A	280 M2	86	90	2950	96																	1570	1560	1520	1480											
TRH 901/B	315 S2	105	110	2950	97																	1570	1560	1520	1480	1420	1360	1250	1170	1040						
TRH 1003/A	315 MG2	153	160	2950	98																															
TRH 1002/A	315 MG2	154	160	2950	98																															
TRH 1001/A	315 MG2	153	160	2950	99																															
TRH 1001/B	315 MK2	192	200	2950	99																															
TRH 631/D	100 LB4	2,8	3	1430	75	180	180	180	178	175	170	167	160	150	140	128	112																			
TRH 712/B	112 M4	3,9	4	1430	76			215	215	215	210	205	200	195	190	180	170	155																		
TRH 711/C	132 SA4	5	5,5	1440	76			235	235	235	230	225	220	215	210	205	195	185	170	150																
TRH 802/C	132 MA4	7	7,5	1450	76					290	290	285	280	275	270	265	255	245	235	220	200															
TRH 801/C	160 M4	9,5	11	1450	77					310	310	310	305	300	295	290	285	280	270	255	235	210	195													
TRH 902/B	160 M4	10,5	11	1450	78							385	385	380	375	365	360	350	335	325	305	285	265													
TRH 901/C	160 L4	14	15	1460	80							420	420	415	410	400	390	380	370	355	345	325	305	280	255											
TRH 1003/B	180 M4	17,5	18,5	1460	82									430	425	425	420	410	400	390	380	370	360	340	320	300										
TRH 1002/B	180 L4	21	22	1460	83									460	460	455	450	448	445	435	425	410	395	380	365	345	315									
TRH 1001/C	200 L4	28	30	1460	84									495	495	495	495	490	485	480	470	455	445	430	410	390	370	330								

Capacity tolerance ± 5 % * kW absorbed by fan at maximum capacity Noise level tolerance + 3 dB Pa (Pascal) = x 9,807

TRH

SERIES TRH SPECIFICATIONS IN SUCTION STAGE

Type		*kW ass.	kW inst.	n. min. ⁻¹	Lp dB/A	V = m³/min																															
						Pt = mm H ₂ O																															
						28	31	35	40	45	50	56	63	71	80	90	100	112	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800		
Fan	Motor																																				
TRH 561/A	132 MB2	8,5	9	2900	87							570	565	555	545																						
TRH 561/B	160 MPR2	10,5	11	2900	88							570	565	555	545	530	500	475	435	395																	
TRH 632/A	160 M2	14,5	15	2900	91									660	660	650	635	620	600																		
TRH 632/B	160 L2	18	18,5	2900	92									660	660	650	635	620	600	575	545																
TRH 631/A	160 M2	14,5	15	2900	92										710	705	695																				
TRH 631/B	160 L2	18	18,5	2950	92										710	705	695	685	665	640																	
TRH 631/C	180 M2	21	22	2950	93										710	705	695	685	665	640	600	560	500														
TRH 712/A	200 LR2	28	30	2950	95																																
TRH 711/A	200 LR2	28	30	2950	95																																
TRH 711/B	200 L2	35	37	2950	95																																
TRH 802/A	225 M2	42	45	2950	95																																
TRH 802/B	250 M2	53	55	2950	96																																
TRH 801/A	250 M2	53	55	2950	96																																
TRH 801/B	280 S2	72	75	2950	97																																
TRH 902/A	280 M2	86	90	2950	98																																
TRH 901/A	280 M2	86	90	2950	98																																
TRH 901/B	315 S2	105	110	2950	99																																
TRH 1003/A	315 MG2	153	160	2950	100																																
TRH 1002/A	315 MG2	154	160	2950	100																																
TRH 1001/A	315 MG2	153	160	2950	101																																
TRH 1001/B	315 MK2	192	200	2950	101																																
TRH 631/D	100 LB4	2,8	3	1430	77	175	175	175	172	170	166	162	158	150	145	122	110																				
TRH 712/B	112 M4	3,9	4	1430	78			208	208	205	202	200	195	190	180	170	162	150																			
TRH 711/C	132 SA4	5	5,5	1440	78			228	228	226	225	222	220	215	208	200	190	178	162	150																	
TRH 802/C	132 MA4	7	7,5	1450	78					280	280	278	275	270	265	260	250	240	230	215	200																
TRH 801/C	160 M4	9,5	11	1450	79					305	305	303	300	300	290	285	280	275	260	250	230	210	195														
TRH 902/B	160 M4	10,5	11	1450	80							375	375	370	365	360	355	345	330	320	300	280	260														
TRH 901/C	160 L4	14	15	1460	82							415	415	410	405	395	385	375	365	350	332	320	300	270	245												
TRH 1003/B	180 M4	17,5	18,5	1460	84									425	425	420	415	408	400	390	380	365	350	335	320	300											
TRH 1002/B	180 L4	21	22	1460	85									425	445	445	440	435	430	425	415	400	385	370	352	330	310										
TRH 1001/C	200 L4	28	30	1460	86									475	475	475	470	468	462	455	450	440	430	415	395	375	350	320									

Capacity tolerance ± 5 %

* kW absorbed by fan at maximum capacity

Noise level tolerance + 3 dB

Pa (Pascal) = mm H₂O x 9,807

SERIES TRF OVERALL DIMENSIONS AND WEIGHTS

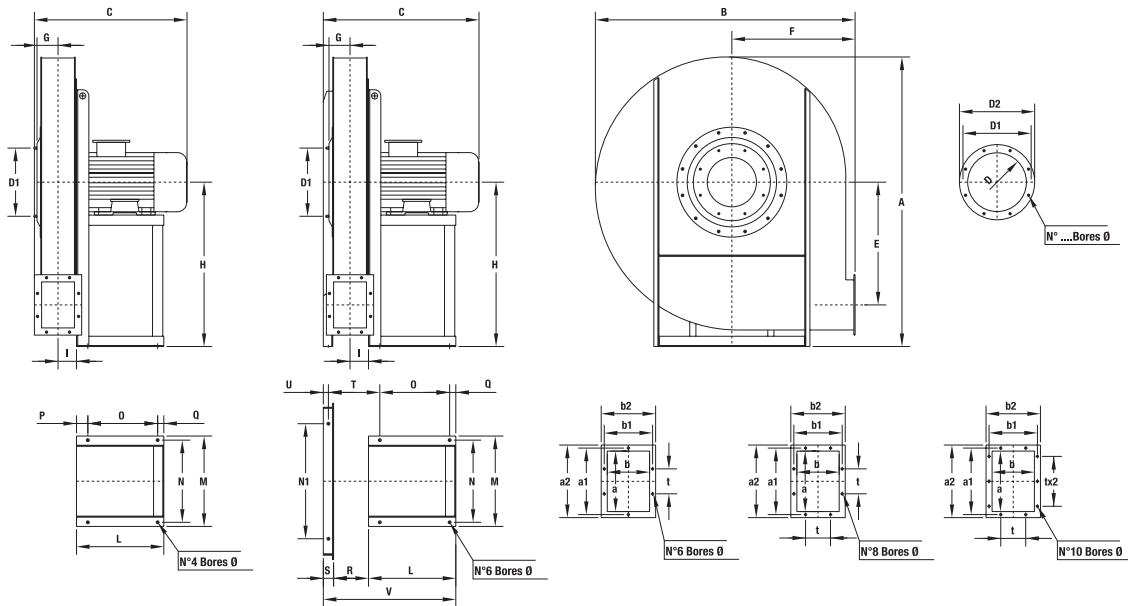
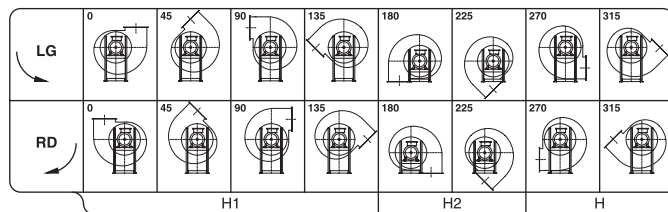


Table of discharge positions



631 – 901

The fan is revolvable

1002 – 1121

The fan is not revolvable

Type		Fan										Base																Inlet flange				Outlet flange												Weight	PD ² GD ²
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	N ₁	O	P	Q	R	S	T	U	V	ø	D	D ₁	D ₂	N°	ø	a	b	a ₁	b ₁	a ₂	b ₂	t	N°	ø	Kg	Kg m ²					
TRF 631/A	112 M2	990	900	505	420	425	71	560	560	560	63	260	332	300	-	200	35	25	-	-	-	-	-	12	205	241	275	8	11,5	160	112	200	153	230	182	112	6	11,5	75	3					
TRF 631/B	132 SA2			560								320	392	360	-	250	45																								80				
TRF 712/A	132 SA2																																									110			
TRF 712/B	132 SB2																																									110			
TRF 712/C	132 MB2	1120	1010	590	470	475	80	630	630	630	69	320	392	360	-	250	45	25	-	-	-	-	-	12	229	265	299	8	11,5	180	125	219	167	250	195	112	6	11,5	110						
TRF 711/A	132 SB2																																									112			
TRF 711/B	132 MB2																																									112			
TRF 711/C	160 MR2			725								425	440	400		340	55	30						14																		130			
TRF 802/A	132 MB2			605								320	392	360		250	45	25						12																			175		
TRF 802/B	160 MR2																																											215	
TRF 802/C	160 M2																																											215	
TRF 801/A	160 MR2	1250	1120	740	530	530	90	710	710	710	78	425	440	400	-	340	55	30	-	-	-	-	-	14	255	292	325	8	11,5	200	140	241	182	270	210	112	8	11,5	220	9,5					
TRF 801/B	160 M2																																											220	
TRF 801/C	160 L2																																											220	
TRF 801/D	100 LB4			540								260	332	300		200	35	25						12																			168		
TRF 902/A	160 L2			760								425	440	400		340	55	30						14																				285	
TRF 902/B	180 M2											470	500	450		370	65	35																										298	
TRF 902/C	200 LR2			835								500	570	510		385	75	40						16																				320	
TRF 902/D	112 M4			560								260	332	300		200	35	25						12																				262	
TRF 901/A	160 L2	1410	1265	760	598	600	105	800	710	710	90	425	440	400	-	340	55	30	-	-	-	-	-	14	286	332	386	8	11,5	224	160	265	200	294	230	112	8	11,5	291	18					
TRF 901/B	180 M2											470	500	450		370	65	35																									304		
TRF 901/C	200 LR2											500	570	510		385	75	40						16																			325		
TRF 901/D	200 L2																																											325	
TRF 901/E	132 SA4			625								320	392	360		250	45	25						12																				278	
TRF 1002/A	200 LR2											500	570	510		385		40																										405	
TRF 1002/B	200 L2			870																																								405	
TRF 1002/C	225 M2			945								550	626	565		425																												430	
TRF 1002/D	132 MA4	1570	1410	660	675	670	115	900	800	670	101	320	392	360	630	250		25	195	60		30		321	366	401	8	11,5	250	180	292	219	320	250	112	10	11,5	365	30						
TRF 1001/A	200 L2			870								500	570	510		385		40																										425	
TRF 1001/B	225 M2			945								550	626	565		425		40																										450	
TRF 1001/C	250 M2											600	686	615		460		45																										465	
TRF 1001/D	160 M4			795								425	440	400		340		30																										410	
TRF 1122/A	280 S2																																											595	
TRF 1122/B	280 M2			1120								700	760	680		550		50																										595	
TRF 1122/C	315 S2											770	860	770		605		55																										730	
TRF 1122/D	160 L4			840								425	440	400		340		30																										515	
TRF 1121/A	280 M2	1780	1600		742	750	136	1000	900	750	124	700	760	680	710	550		50	240	60		370		30	361	405	441	8	11,5	315	224	366	273	395	304	125	10	11,5	610	48					
TRF 1121/B	315 S2			1120								770	860	770		605		55																										745	
TRF 1121/C	315 M2			1265								770	860	770		605		55																										745	
TRF 1121/D	180 M4			840								470	500	450		370		35																										585	

The above data are unbinding

Fan weight in kg (without motor)

SERIES TRG OVERALL DIMENSIONS AND WEIGHTS

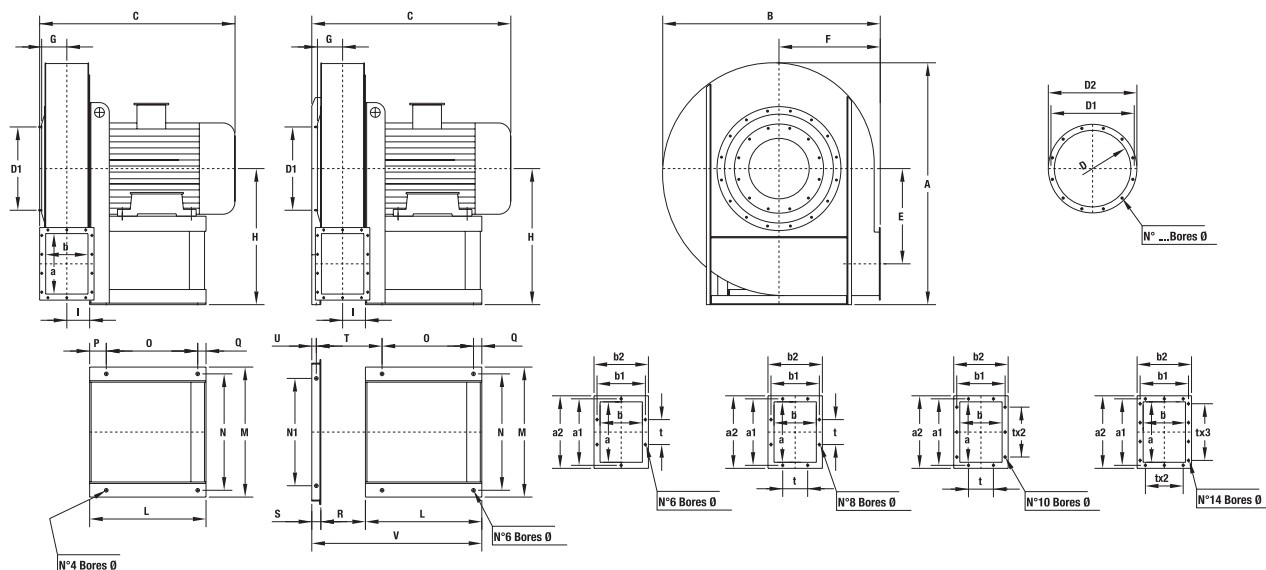
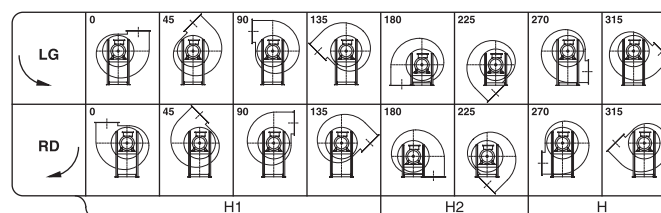


Table of discharge positions



501 - 901

The fan is revolvable

1002 - 1121

The fan is not revolvable

Type		Fan										Base										Inlet flange				Outlet flange										Weight	PD ² G0 ²						
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	N ₁	O	P	Q	R	S	T	U	V	ø	D	D ₁	D ₂	N°	ø	a	b	a ₁	b ₁	a ₂	b ₂	t	N°	ø	Kg	Kg m ²			
TRG 501/A	100 LA2	800	735	500	310	355	77	450	450	355	69	260	332	300	-	200	35	25	-	-	-	-	-	12	205	241	275	8	11,5	180	125	219	167	250	195	112	6	11,5	48	1,5			
TRG 501/B	112 M2																																									50	
TRG 562/A	132 SA2	895	830	595	350	400	87	500	500	400	77	320	392	360	-	250	45	25	-	-	-	-	-	12	229	265	299	8	11,5	200	140	241	182	270	210	112	8	11,5	60	1,9			
TRG 561/A	132 SA2																																									62	2,2
TRG 561/B	132 SB2																																									62	
TRG 632/A	132 SB2																																									80	
TRG 632/B	132 MB2																																									80	2,9
TRG 632/C	160 MR2	990	900	750	388	425	100	560	560	425	87	425	440	400	-	340	55	30	-	-	-	-	-	12	255	292	325	8	11,5	224	160	265	200	294	230	112	8	11,5	103				
TRG 631/A	132 MB2																																									85	3,5
TRG 631/B	160 MR2																																									110	
TRG 712/A	160 M2																																									160	5,5
TRG 712/B	160 L2																																									160	
TRG 711/A	160 L2	1115	1005	780	435	475	110	630	630	475	97	425	440	400	-	340	55	30	-	-	-	-	-	14	286	332	366	8	11,5	250	180	292	219	320	250	112	10	11,5	168	6,2			
TRG 711/B	180 M2																																									188	
TRG 802/A	180 M2																																									242	
TRG 802/B	200 LR2																																									270	9
TRG 802/C	200 L2																																									270	
TRG 801/A	200 LR2	1250	1120	875	490	530	120	710	710	530	108	500	570	510	-	385	75	40	-	-	-	-	-	16	321	366	401	8	11,5	280	200	332	249	360	280	125	10	11,5	280				
TRG 801/B	200 L2																																									280	11
TRG 801/C	225 M2																																									298	
TRG 801/D	132 SM																																									221	
TRG 902/A	225 M2																																									350	
TRG 902/B	250 M2																																									385	15
TRG 902/C	280 S2																																									410	
TRG 902/D	132 MA4	1410	1265	700	552	600	135	800	800	600	122	320	392	360	-	250	45	25	-	-	-	-	-	12	361	405	441	8	11,5	315	224	366	273	395	304	125	10	11,5	289				
TRG 901/A	250 M2																																									395	
TRG 901/B	280 S2																																									412	19
TRG 901/C	132 MA4																																									299	
TRG 1002/A	280 M2																																									442	
TRG 1002/B	315 S2																																									508	26
TRG 1002/C	315 M2																																									508	
TRG 1002/D	160 M4	1570	1410	865	622	670	148	900	900	670	136	425	440	400	630	340	-	30	265	60	350	30	750	14	406	448	486	12	11,5	355	250	405	300	435	330	125	10	11,5	392				
TRG 1001/A	315 S2																																									522	
TRG 1001/B	315 M2																																									522	32
TRG 1001/C	315 MG2																																									522	
TRG 1001/D	160 L4																																									408	
TRG 1122/A	315 MG2																																									575	
TRG 1122/B	315 MK2																																									575	42
TRG 1122/C	355 LB2																																									600	
TRG 1122/D	180 L4	1780	1600	970	700	750	168	1000	900	750	152	470	500	450	710	370	-	35	295	60	390	30	825	14	506	551	586	12	11,5	400	280	448	332	480	360	125	14	11,5	540				
TRG 1121/A	315 MK2																																									595	
TRG 1121/B	355 LB2																																									620	53
TRG 1121/C	200 L4																																									540	

The above data are unbinding

Fan weight in kg (without motor)

SERIES TRH OVERALL DIMENSIONS AND WEIGHTS

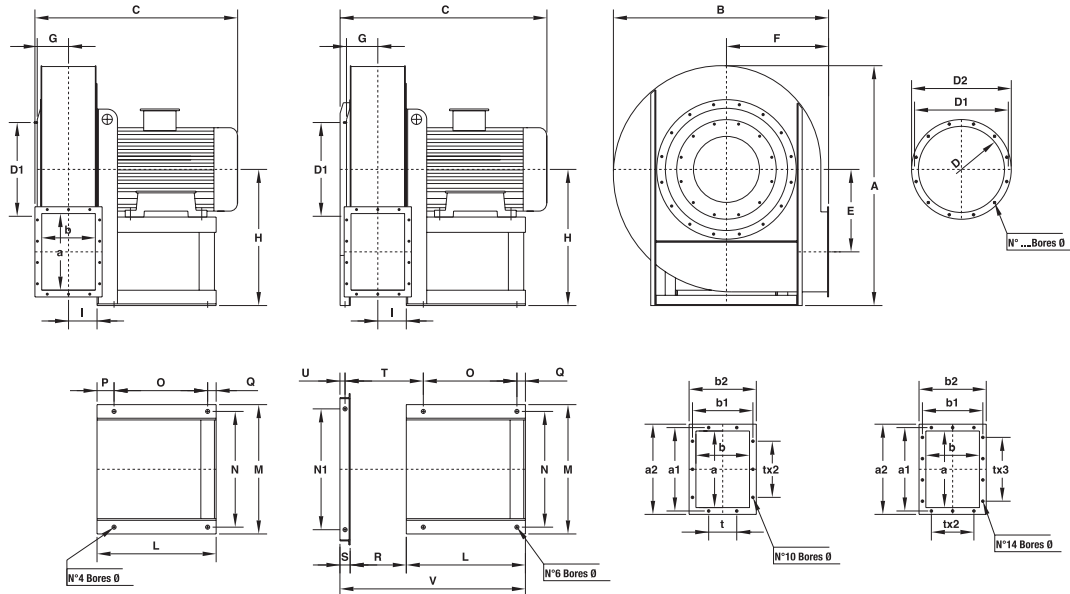
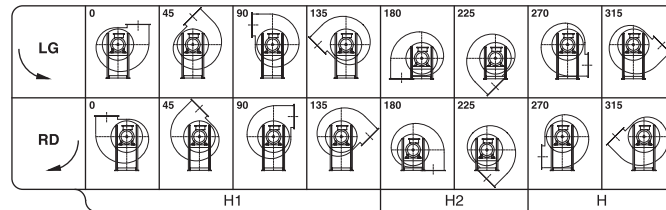


Table of discharge positions



561 – 801

The fan is revolvable

902 – 1001

The fan is not revolvable

Type		Fan										Base																Inlet flange				Outlet flange										Weight	PD ² GD ²			
Fan	Motor	A	B	C	E	F	G	H	H ₁	H ₂	I	L	M	N	N ₁	O	P	Q	R	S	T	U	V	ø	D	D ₁	D ₂	N°	ø	a	b	a ₁	b ₁	a ₂	b ₂	t	N°	ø	Kg	Kg m ²						
TRH 561/A	132 MB2	895		650	314	400	120	500	500	400	107	320	392	360	-	250	45	25	-	-	-	-	-	12	286	332	366	8	11,5	280	200	332	249	360	280	125	10	11,5	75	2,5						
TRH 561/B	160 MR2			785								425	440	400	-	340	55	30	-	-	-	-	-	14																		112				
TRH 632/A	160 M2																																									140	3,2			
TRH 632/B	160 L2			815								425	440	400	-	340	55	30	-	-	-	-	-	14	321	366	401	8	11,5	315	224	366	273	395	304	125	10	11,5	145	3,8						
TRH 631/A	160 M2	990	895		342	425	131	560	560	425	120									-	-	-	-	14	321	366	401	8	11,5	315	224	366	273	395	304	125	10	11,5	145	3,8						
TRH 631/B	160 L2																			-	-	-	-	14																	158					
TRH 631/C	180 M2			810								470	500	450		370	65	35						12																		115				
TRH 631/D	100 LB4			615								260	332	300		200	35	25						12																			205			
TRH 712/A	200 LR2			915								500	570	510		385	75	40						16																			153	6		
TRH 712/B	112 M4			640								260	332	300		200	35	25						12																			205			
TRH 711/A	200 LR2	1115	1005		383	475	144	630	630	475	132									-	-	-	-	16	361	405	441	8	11,5	355	250	405	300	435	330	125	10	11,5	215	6,5						
TRH 711/B	200 L2			915								500	570	510	-	385	75	40						16																			215	6,5		
TRH 711/C	132 SA4			695								320	392	360		250	45	25						12																			178			
TRH 802/A	225 M2											550	626	565		425	85	40						19																				270		
TRH 802/B	250 M2			1035								600	686	615		460	95	45						21																				308	10	
TRH 802/C	132 MA4			740								320	392	360		250	45	25						12																					228	
TRH 801/A	250 M2	1250	1120		430	530	159	710	710	530	150									-	-	-	-	21	406	448	486	12	11,5	400	280	448	332	480	360	125	14	11,5	320	11,5						
TRH 801/B	280 S2			1160								700	760	680		550	100	50						24																				358	11,5	
TRH 801/C	160 M4			880								425	440	400		340	55	30					14																					278		
TRH 902/A	280 M2			1215								700	760	680		550	50							50	460	500	540	12	11,5	450	315	497	366	530	395	125	14	11,5	375	16						
TRH 902/B	160 M4			930								425	440	400		340	30							415	450	486	12	11,5	450	315	497	366	530	395	125	14	11,5	308								
TRH 901/A	280 M2	1410	1265	1215	485	600	184	800	710	600	168	700	760	680	710	550	50	330	60					460	500	540	12	11,5	450	315	497	366	530	395	125	14	11,5	393	20							
TRH 901/B	315 S2			1210								770	860	770		605	55							470	500	540	12	11,5	450	315	497	366	530	395	125	14	11,5	415								
TRH 901/C	160 L4			930								425	440	400		340	30							415	450	486	12	11,5	450	315	497	366	530	395	125	14	11,5	322								
TRH 1003/A	315 MG2			1390								770				604	56							503	540	586	16	11,5	500	355	551	405	580	435	125	14	11,5	407	27							
TRH 1003/B	180 M4			970								470				370	35							458	500	540	12	11,5	500	355	551	405	580	435	125	14	11,5	355								
TRH 1002/A	315 MG2			1390								770				604	56							503	540	586	16	11,5	500	355	551	405	580	435	125	14	11,5	415	30							
TRH 1002/B	180 L4	1570	1410	1040	550	670	215	900	800	670	182	470	1130	1060	1060	370	35	363	60					458	500	540	12	11,5	500	355	551	405	580	435	125	14	11,5	393	35							
TRH 1001/A	315 MG2			1390								770				604	56							503	540	586	16	11,5	500	355	551	405	580	435	125	14	11,5	428								
TRH 1001/B	315 MK2																																											428		
TRH 1001/C	200 L4			1040								500				385	40							468	500	540	12	11,5	500	355	551	405	580	435	125	14	11,5	403	35							

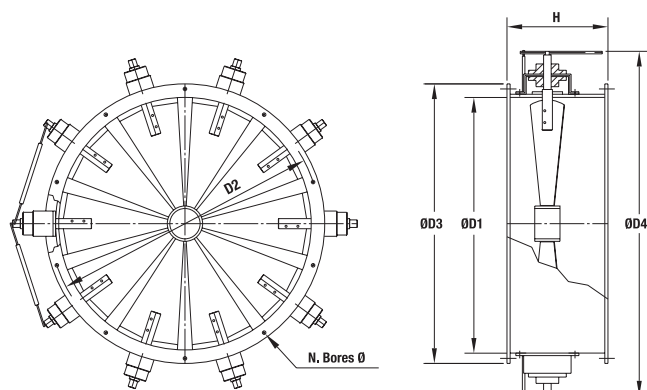
The above data are unbinding

Fan weight in kg (without motor)

Accessories

Circular flow regulators

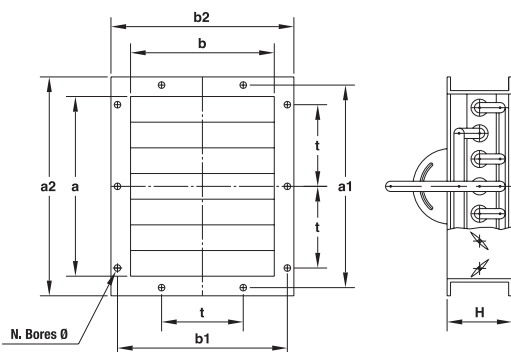
OVERALL DIMENSIONS in mm



Type	D ₁	D ₂	D ₃	D ₄	H	n°	Bores Ø	Weight kg
280	280	332	366	450	280	8	11,5	24
315	321	366	400	570	280			30
355	361	405	440	610	280			33
400*	406	448	485	650	315	12	11,5	36
450	456	497	535	700	315			40
500	506	551	585	820	355			53
560	568	629	666	880	355	16	11,5	60
630	638	698	736	990	355			68
710	718	775	816	1070	355			75
800	808	861	906	1160	400	24	14	85
900	908	958	1006	1260	400			100
1000	1008	1067	1107	1360	400			130
1120	1130	1200	1248	1480	450	32	18	160
1250	1260	1337	1380	1610	450			180
1400	1420	1491	1540	1760	450			210
1600	1610	1663	1730	1960	500	32	18	230
1800	1810	1880	1950	2200	500			280
2000	2010	2073	2130	2380	500			340

Rectangular flow regulators, outflow end

OVERALL DIMENSIONS in mm



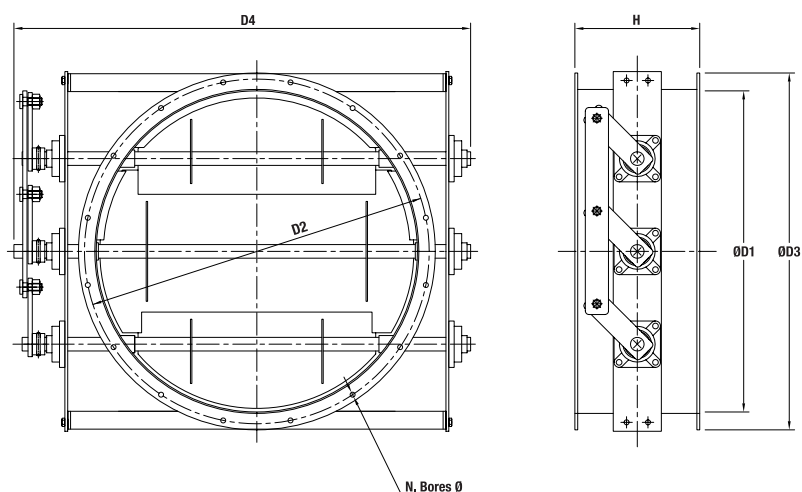
Type	a	b	a ₁	b ₁	a ₂	b ₂	H	t	n°	Bores Ø	Weight kg
90 x 63	90	63	112	90	150	123	130	-	4	9	2,2
100 x 71	100	71	125	100	160	131	130	-			2,5
112 x 80	112	80	140	112	172	140	130	-			2,7
125 x 90	125	90	165	130	185	150	130	112	6	11,5	3
140 x 100	140	100	182	141	210	170	130				3,3
160 x 112	160	112	200	153	230	182	130				3,8
180 x 125	180	125	219	167	250	195	130	125	8	11,5	4,5
200 x 140	200	140	241	182	270	210	130				5,3
224 x 160	224	160	265	200	294	230	130				6,5
250 x 180	250	180	292	219	320	250	130	160	10	14	7,5
280 x 200	280	200	332	249	360	280	130				8,5
315 x 224	315	224	366	273	395	304	130				9,6
355 x 250	355	250	405	300	435	330	130	200	14	18	11
400 x 280	400	280	448	332	484	368	130				13
450 x 315	450	315	497	366	533	402	130				18
500 x 355	500	355	551	405	587	441	150	240	16	22	21
560 x 400	560	400	629	464	669	504	150				26
630 x 450	630	450	698	513	738	553	180				30
710 x 500	710	500	775	567	815	607	180	280	18	24	34
800 x 560	800	560	871	639	921	689	200				42
900 x 630	900	630	968	708	1018	758	200				48
1000 x 710	1000	710	1077	785	1127	835	200	320	20	28	65
1120 x 800	1120	800	1210	881	1270	941	220				80
1250 x 900	1250	900	1347	978	1407	1038	220				95
1400 x 1000	1400	1000	1501	1087	1560	1160	250	360	24	32	110
1600 x 1120	1600	1120	1683	1220	1760	1280	250				150
1800 x 1250	1800	1250	1876	1357	1960	1410	280				200
2000 x 1400	2000	1400	2093	1511	2180	1580	280		34		280

External **flow regulator** designed for dusty air, sturdy construction, for industrial use.
Layout 1 = max. temperature 120°C.
Layout 2 = from 120 to 350°C. + pression ≥ 700 mm H₂O.

Accessories

Louver flow regulators

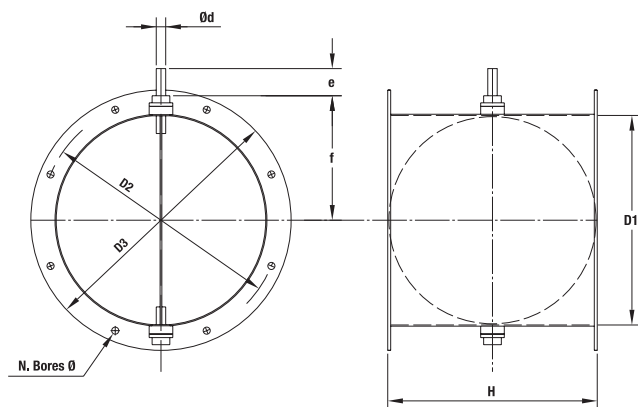
OVERALL DIMENSIONS in mm



Type	D ₁	D ₂	D ₃	D ₄	H	Weight kg
315	315	366	400	640	280	21
355	355	405	440	680	280	23
400*	400	448	485	720	315	29
450	450	497	535	770	315	32
500	500	551	585	820	355	60
560	560	629	666	900	355	75
630	630	698	736	1040	355	80
710	710	775	816	1130	355	86
800	800	861	906	1220	400	93
900	900	958	1006	1320	400	110
1000	1000	1067	1107	1420	400	126
1120	1120	1200	1248	1560	450	160
1250	1250	1337	1380	1690	450	192
1400	1400	1491	1540	1860	450	260
1600	1600	1663	1730	2050	500	320

Butterfly flow regulators

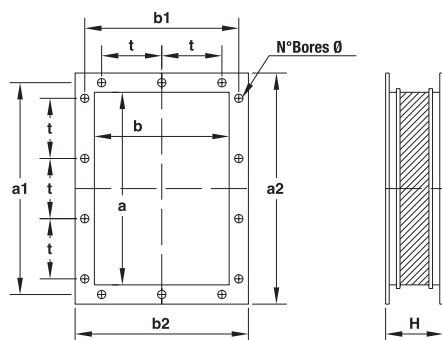
OVERALL DIMENSIONS in mm



Type	D ₁	D ₂	D ₃	d	e	f	H	n°...Bores Ø	Weight kg
140	140	182	215	14	30	110	140	8 - 11,5	2,8
160	160	200	235	14	30	120	160	8 - 11,5	3,2
180	180	219	255	14	30	130	180	8 - 11,5	4
200	200	241	275	16	30	140	200	8 - 11,5	4,8
224	224	265	299	16	30	150	224	8 - 11,5	5,5
250	250	292	325	16	45	165	250	8 - 11,5	6,5
280	280	332	366	16	45	180	280	8 - 11,5	8,5
315	315	366	401	16	45	195	315	8 - 11,5	10,5
355	355	405	441	16	45	215	355	8 - 11,5	13,5
400*	400	448	486	16	45	240	400	12 - 11,5	18
450	450	497	535	20	60	280	450	12 - 11,5	23
500	500	551	585	20	60	305	500	12 - 11,5	29
560	560	629	666	20	60	335	560	16 - 11,5	36
630	630	698	736	20	60	370	630	16 - 13	47
710	710	775	816	20	60	410	710	16 - 13	61
800	800	861	906	30	70	455	800	16 - 13	80
900	900	958	1006	30	70	505	900	16 - 13	100
1000	1000	1067	1107	30	70	555	1000	24 - 14	155
1120	1120	1200	1248	30	70	615	1120	24 - 14	190

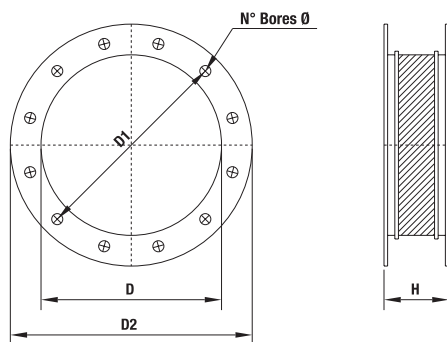
Accessories

Vibration-damping couplings outflow-end



Series	mm								Bores		Weight kg
	a	b	a ₁	b ₁	a ₂	b ₂	t	H	n°	Ø	
90 x 63	90	63	112	90	150	123	-	140	4	9	1
100 x 71	100	71	125	100	160	131	-	140	4	9	1,1
112 x 80	112	80	140	112	172	140	-	140	4	9	1,3
125 x 90	125	90	165	130	185	150	100	140	6	9,5	1,6
140 x 100	140	100	182	141	210	170	112	140	6	11,5	2,1
160 x 112	160	112	200	153	230	182	112	140	6	11,5	2,6
180 x 125	180	125	219	167	250	195	112	140	6	11,5	3,2
200 x 140	200	140	241	182	270	210	112	140	8	11,5	3,9
224 x 160	224	160	265	200	294	230	112	140	8	11,5	4,6
250 x 180	250	180	292	219	320	250	112	140	10	11,5	5,5
280 x 200	280	200	332	249	360	280	125	140	10	11,5	7
315 x 224	315	224	366	273	395	304	125	140	10	11,5	8,2
355 x 250	355	250	405	300	435	330	125	140	10	11,5	10
400 x 280	400	280	448	332	480	360	125	140	14	11,5	11,2
450 x 315	450	315	497	366	530	395	125	140	14	11,5	13
500 x 355	500	355	551	405	580	435	125	160	14	11,5	14,5
560 x 400	560	400	629	464	660	500	160	160	14	14	18
630 x 450	630	450	698	513	730	550	160	160	14	14	19,5
710 x 500	710	500	775	567	810	600	160	160	16	14	22
800 x 560	800	560	871	639	920	680	200	160	14	14	31
900 x 630	900	630	968	708	1020	750	200	160	18	14	37
1000 x 710	1000	710	1077	785	1120	830	200	200	18	14	45
1120 x 800	1120	800	1210	881	1260	940	200	200	20	18	56
1250 x 900	1250	900	1347	978	1390	1040	200	200	24	18	65
1400 x 1000	1400	1000	1501	1087	1560	1160	200	200	24	18	80
1600 x 1120	1600	1120	1683	1220	1760	1280	200	200	28	22	100
1800 x 1250	1800	1250	1876	1357	1960	1410	200	200	32	22	130
2000 x 1400	2000	1400	2093	1511	2180	1580	200	200	34	22	165

Vibration-damping couplings intake-end

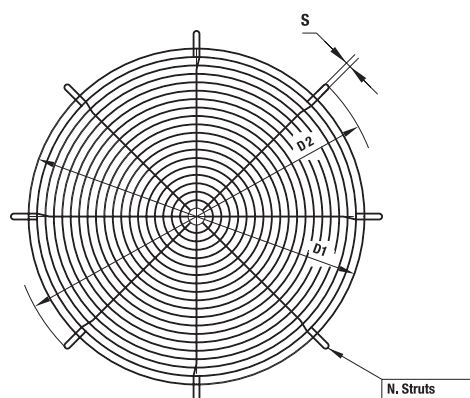


Series	mm				Bores		Weight kg
	D	D ₁	D ₂	H	n°	Ø	
140	140	182	215	140	8	11,5	3
160	160	200	235	140	8	11,5	3,2
180	180	219	255	140	8	11,5	3,5
200	200	241	275	140	8	11,5	3,8
224	224	265	299	140	8	11,5	4,2
250	250	292	325	140	8	11,5	5
280	280	332	366	140	8	11,5	6,8
315	315	366	401	140	8	11,5	7,5
355	355	405	440	140	8	11,5	9
400 *	400	448	485	140	12	11,5	10
450	450	497	535	140	12	11,5	11,5
500	500	551	585	160	12	11,5	13
560	560	629	666	160	16	11,5	16
630	630	698	736	160	16	13	17,5
710	710	775	816	160	16	13	20
800	800	861	906	160	16	13	22
900	900	958	1006	160	16	13	25
1000	1000	1067	1107	200	24	14	28
1120	1120	1200	1248	200	24	14	42
1250	1250	1337	1380	200	24	14	46
1400	1400	1491	1540	200	24	16	52
1600	1600	1663	1730	200	24	16	62
1800	1810	1880	1950	200	32	18	85
2000	2010	2073	2130	200	32	18	110

Coupling 1 : PVC hoop-iron max temperature 80° C; from 80° to 350° C fiber glass strap aluminium - **Coupling 2** : Like type 1 plus anti-wear protection.

Accessories

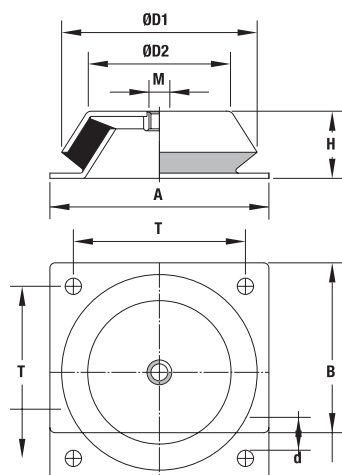
Protection Net



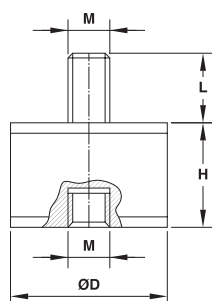
Dn	(mm)	(mm)	(mm)	
125	140	220	12	4
140				
160				
180	212	285	12	4
200				
224				
250	312	385	12	4
280				
315				
355	357	430	12	4
400	408	470	12	4
450	450	528	12	4
500	500	580	16	4
560	562	650	16	4
630	620	720	16	8
710	710	800	16	8
800	795	895	16	8
900	890	990	16	8
1000	990	1130	18	8
1120	1115	1250	18	8
1250	1245	1400	20	8
1400	1405	1560	20	8
1600	1595	1750	20	8
1800	1795	1950	20	8
2000	1995	2150	20	8

ISOLATOR

TYPE A



TYPE B



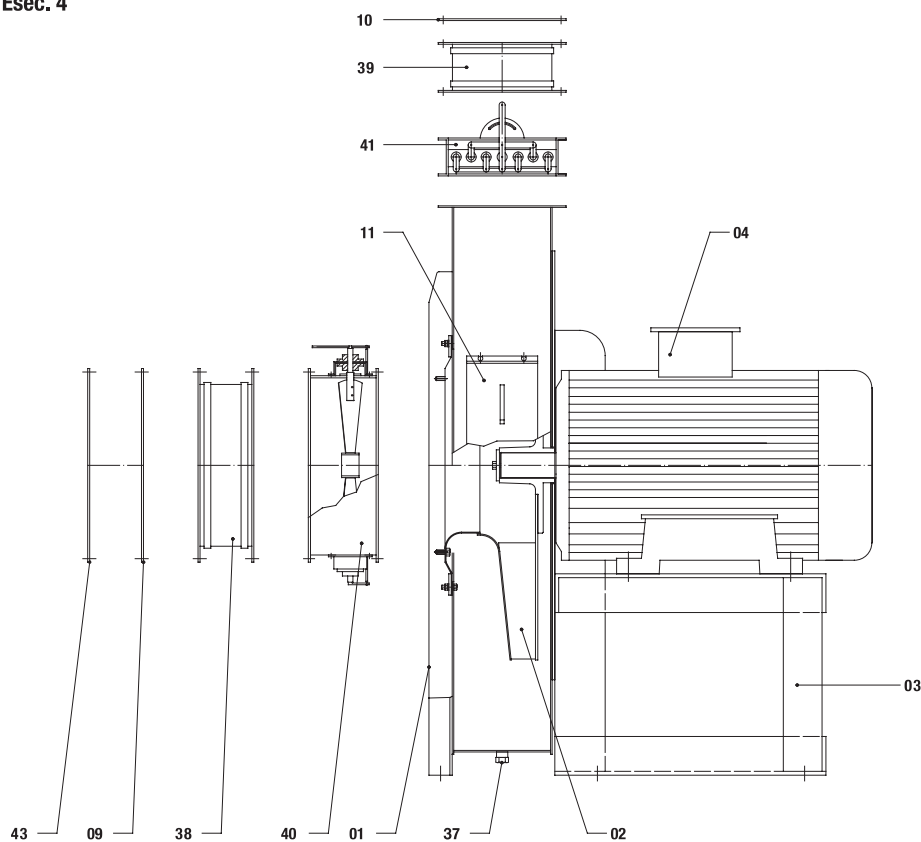
Type	A	B	H	M	T	d	D1	D2
MOD 58540	108	108	40	12	88	9	101	75
MOD 33629	168	168	50	16	132	13	136	125
MOD 58541	200	200	70	20	165	13	192	170

Type	D	H	M	L
B_D3020	30	20	8	20
B_D3030	30	30	8	20
B_D4030	40	30	8	23
B_D4040	40	40	8	23
B_D5020	50	20	10	28
B_D5030	50	30	10	28
B_D5045	50	45	10	28
B_D7045	70	45	10	30
B_D7540	75	40	12	37
B_D7555	75	55	12	37
B_D10040	100	40	16	45
B_D10055	100	55	16	45
B_D10075	100	75	16	45

(Quote = mm)

SECTION

Esec. 4

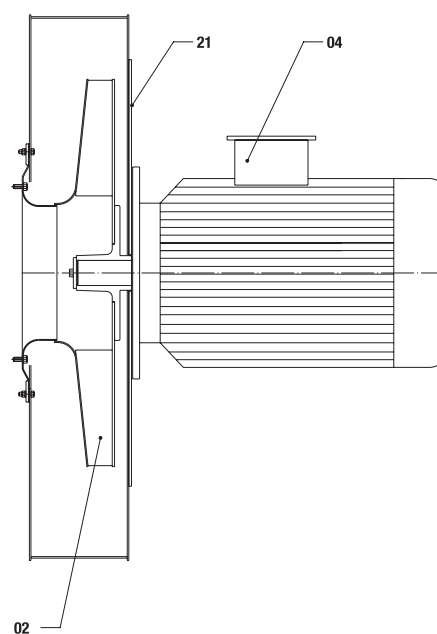
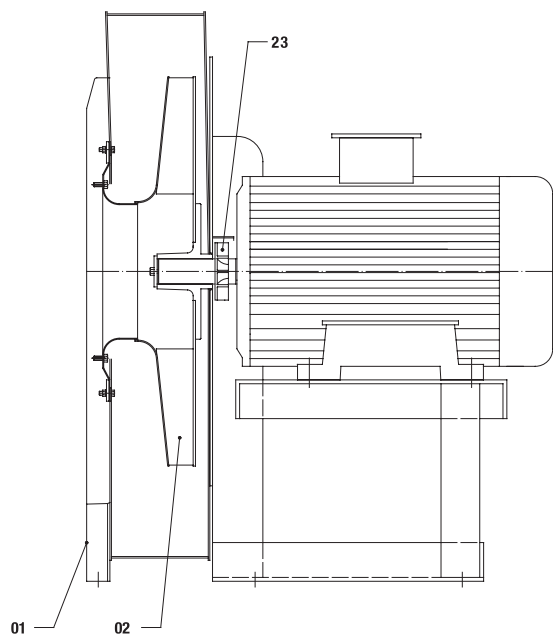


Esec. 4 (with fan)

Esec. 5

SPARE PARTS

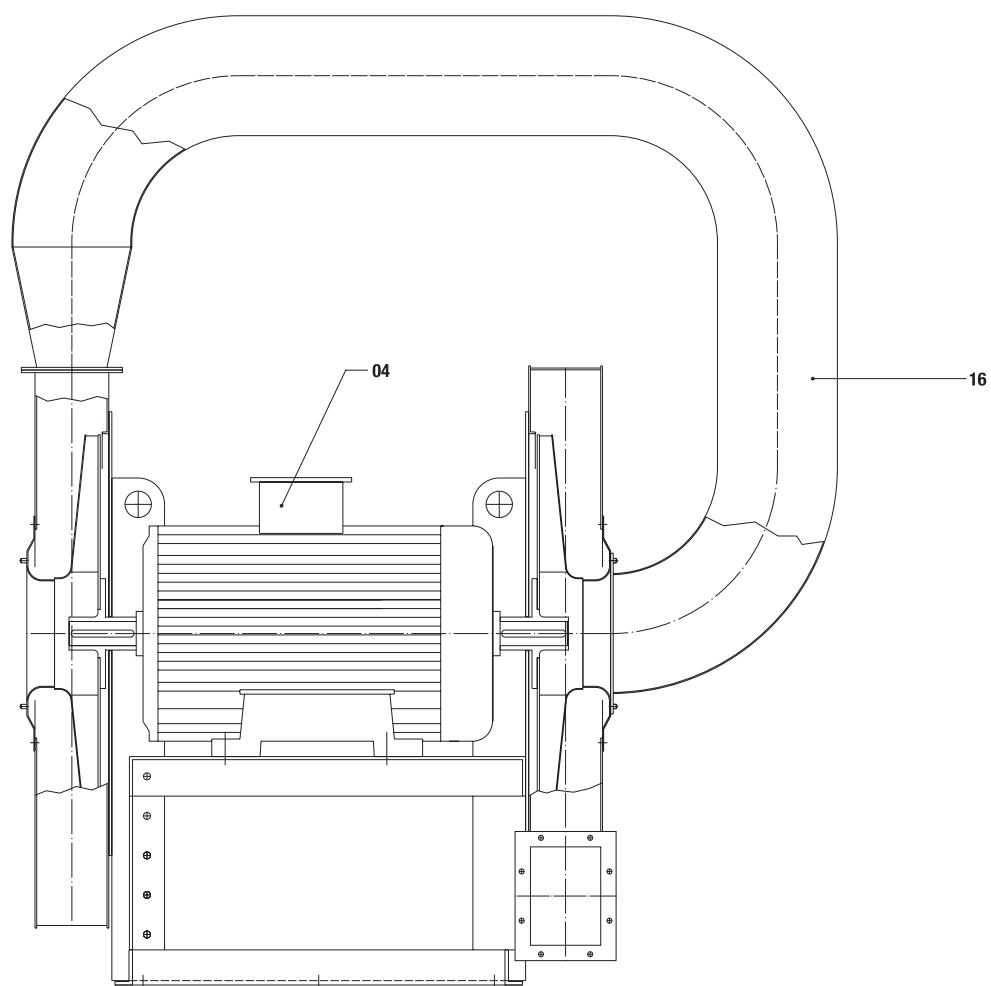
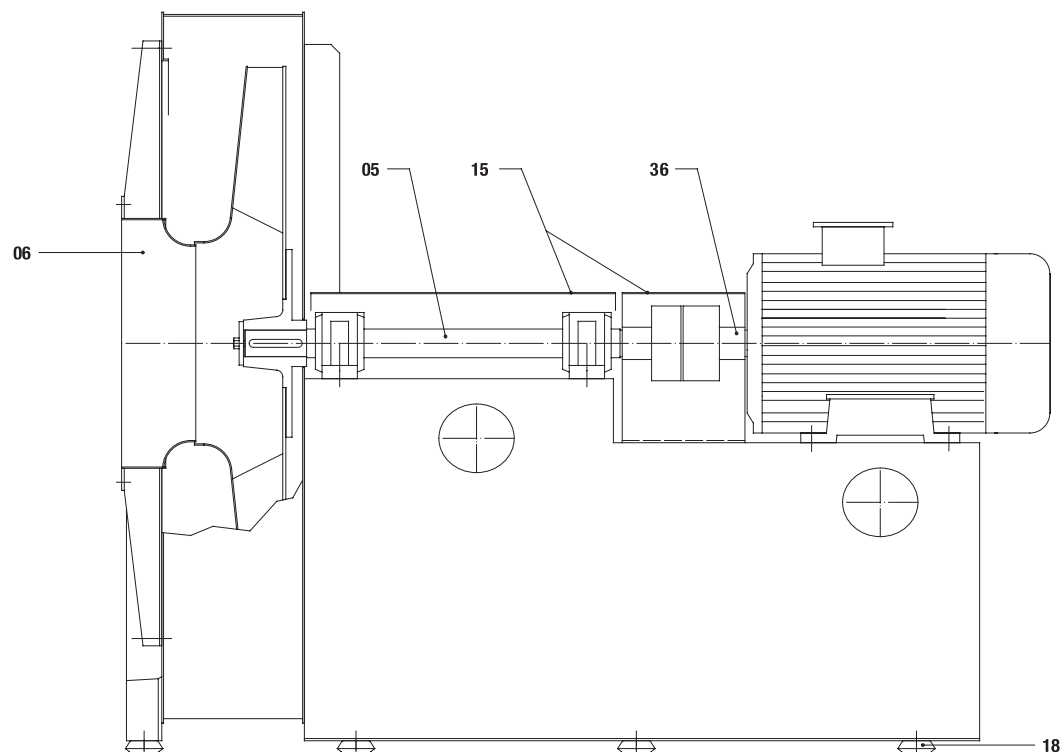
- 01 - CASE
- 02 - IMPELLER
- 03 - BASE
- 04 - MOTOR
- 05 - SUPPORT
- 06 - NOZZLE
- 07 - TURNING BASE
- * 09 - SUCKING COUNTERFLANGE
- * 10 - PRESSING COUNTERFLANGE
- * 11 - INSPECTION DOOR
- 15 - BELT PROTECTION CASE
- 16 - CONNECTIME PIPE
- 17 - COOLING FAN PROTECTION
- * 18 - SHOCK ISOLATING MOUNTINGS
- 19 - GREASE PROTECTION RING
- 22 - KEY
- 23 - COOLING FAN
- 24 - LUBRIFICATOR
- 25 - BEARING
- 26 - SHAFT
- 27 - CASE
- 28 - CAP
- 29 - PROTECTION RING
- 30 - COVER
- 31 - HOUSING
- 32 - FIXING COLLARS
- 33 - LOCKING COMPASS
- 34 - RING NUT
- 35 - SECURITY WASHER
- 36 - SEMI-ELASTIC JOINT
- * 37 - DISCHARGE CAP
- * 38 - SUCKING FLEXIBLE JOINT
- * 39 - PRESSING FLEXIBLE JOINT
- * 40 - CIRCULAR FLOW REGULATOR
- * 41 - RECTANGULAR FLOW REGULATOR
- * 43 - PROTECTION NET





SECTION

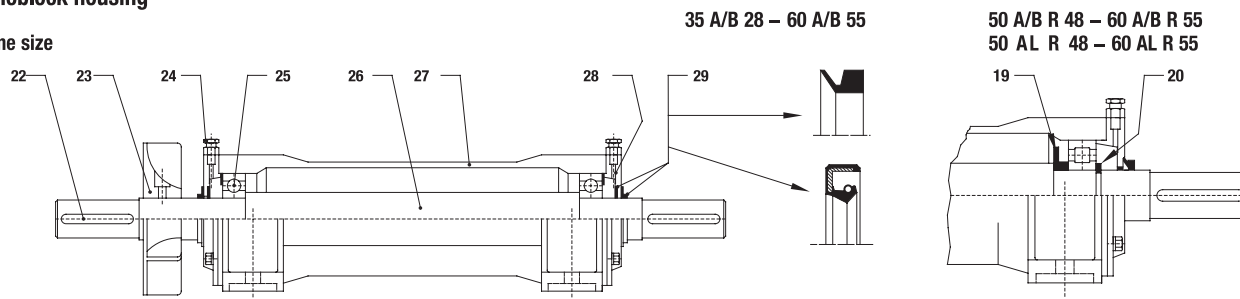
Esec. 8



SECTION

Monoblock housing

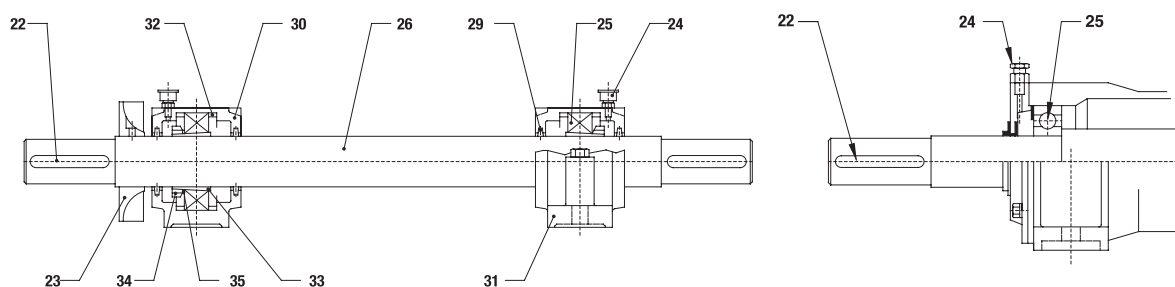
Frame size



Frame size

SNL 515 – SNL 524

35 AL 28 – 60 AL 55



SPARE PARTS

- | | |
|----------------------------------|-----------------------------------|
| 01 - CASE | 26 - SHAFT |
| 02 - IMPELLER | 27 - CASE |
| 03 - BASE | 28 - CAP |
| 04 - MOTOR | 29 - PROTECTION RING |
| 05 - SUPPORT | 30 - COVER |
| 06 - NOZZLE | 31 - HOUSING |
| 07 - TURNING BASE | 32 - FIXING COLLARS |
| * 09 - SUCKING COUNTERFLANGE | 33 - LOCKING COMPASS |
| * 10 - PRESSING COUNTERFLANGE | 34 - RING NUT |
| * 11 - INSPECTION DOOR | 35 - SECURITY WASHER |
| 15 - BELT PROTECTION CASE | 36 - SEMI-ELASTIC JOINT |
| 16 - CONNECTIME PIPE | * 37 - DISCHARGE CAP |
| 17 - COOLING FAN PROTECTION | * 38 - SUCKING FLEXIBLE JOINT |
| * 18 - SHOCK ISOLATING MOUNTINGS | * 39 - PRESSING FLEXIBLE JOINT |
| 19 - GREASE PROTECTION RING | * 40 - CIRCULAR FLOW REGULATOR |
| 22 - KEY | * 41 - RECTANGULAR FLOW REGULATOR |
| 23 - COOLING FAN | * 43 - PROTECTION NET |
| 24 - LUBRIFICATOR | |
| 25 - BEARING | |



 **EuroVent**



EUROVENT CO.,LTD

18/5 Moo 13 Soi Watmainongpa-ong Petchkasem Rd.

Omnoi Krathumban Samutsakorn 74130 Thailand.

Tel : +66(2) 813 8118 +66(2) 115 5000

Fax : +66(2) 811 0808 +66(2) 115 5555

E-mail : info@euroventblower.com

www.euroventblower.com www.tngroup.co.th

