

TEM Series Centrifugal Blower

Professional HVAC Fan & Motors Manufacturer



Type Code

TEM 355 - R

Type R L (Basic model)
Type K (Enhanced model)
Type E (Heavy duty model)
Type C (Handling model)

Diameter of Impeller

TEM Series

TEM Series Centrifugal Blower

1.Summary

The TEM Series of centrifugal air conditioning fans was developed with advanced technologies.

They are licensed to bear the AMCA Seal for air performance, sound, and FEG.

The TEM Series includes 12 models as described in this catalogue. The volume flow ranges from 700 m³/h to 50,000 m³/h, the total pressure ranges from 200Pa to 1500Pa. Some of the features and characteristics of these fans are: forward blades, a wide range of applications,high efficiency, low noise, and low power consumption. These fans are ideal for use in central air-conditioning systems, in purifiers. They are also suitable for use in a variety of other ventilation applications.

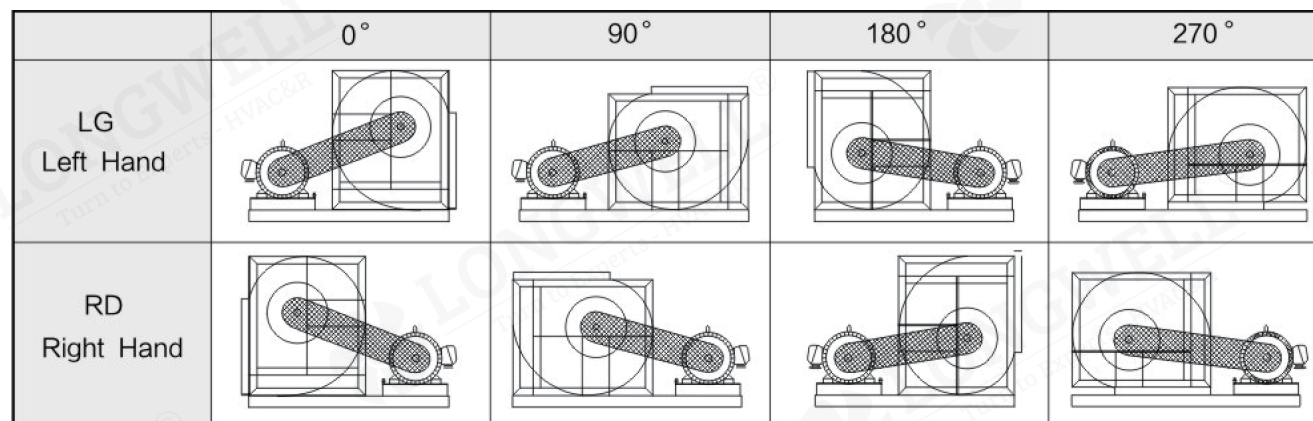
2.Product Features

(1) Rotation

TEM series fans have two direction of rotations, left-hand rotation (LG) and right-hand rotation (RD); Viewing from drive side, if the Wheel rotates clockwise, it is left hand (LG) rotation. If the Wheel rotates counter clockwise, it is right-hand (RD).

(2) Discharge Direction

As shown in Fig1, TEM Series fans can be constructed in four discharge directions: 0°,90°,180° and 270°.



(Fig 1)

(3) Type of Construction

As shown in Fig 2, TEM series fans can be divided into category R, E, C.

Fan Type	Fan Size	Fan Diagram	Bearing Type
TYPE R	280-710		
TYPE E	280-1000		
TYPE C	280-1000		

(Fig 2)

3.Construction of Product

TEM series fans are mainly constructed of housing, Wheel, frame, bearing and shaft. Outlet flange (is optional).

(1) Housing

The housing is made of hot galvanized steel sheet. The side plates include inlet cones that are designed with the best aerodynamics for inlet condition. The scroll is fixed to the side plates by spot welding or "Pittsburg seam locking".

(2) Wheel

Forward curved Wheel is constructed of high-grade hot galvanized steel sheet with the advanced aerodynamics profile to achieve the highest efficiency and the lowest noise level. The Wheel is fixed on the center plate and on the end ring with riveting grip pres.The Wheel is constructed with maximum strength that endures the continuous operation with maximum power.All Wheels are balanced to ANSI/AMCA Standard 204-05. Yilida's internal standard is G2.5 or higher for wheel balancing.

(3) Frame

The frames for type R construction are made of galvanized steel angle iron bars. The cutting and bending of the frame parts, as well as the TOX connections, are formed with the use of toolings to ensure the high accuracy and the rigidity of the frames; The farnes for E and C constructions are welded by angle steel and flat steel, and finished with polyester coating in order to ensure sufficient rigidity and strength.

(4) Bearings

Ball bearings are used in all of the TEM Series fans. These are high-quality bearings and selected to minimize the fan noise levels. The bearings are pre-lubricated, sealed, and self-centering. For type R constructions, the bearings are supplied with lubrication fittings. For type E and C constructions, the bearings are supplied with redial bearing. All Yilida bearing service life (L10) are over 100,000 hours (L10≥ 100000 hours).

(5) Shaft

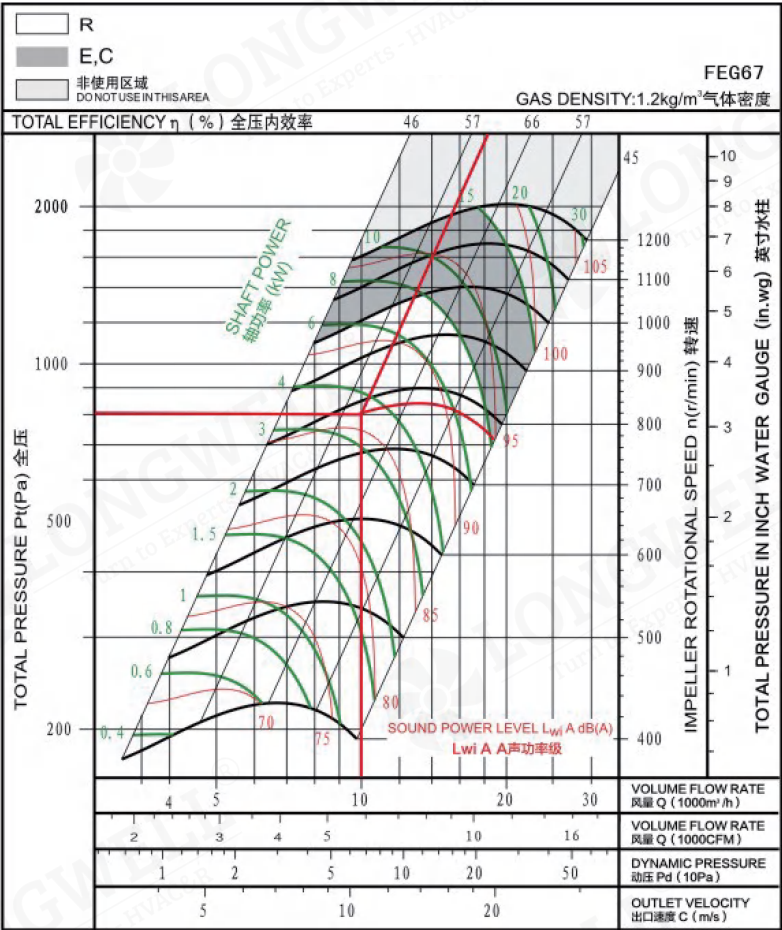
The shafts are made of 40 Cr carbon steel bars. The shafts are rough machined and then stress relieved with heat treatment before final machining. The shaft diameters are machined to very accurate tolerance levels and they are fully checked to ensure precision fit. Each shaft is made turned, ground and polished. They are coated after assembly to provide corrosion resistance. Shaft size should be designed to meet the first critical speed of at least fan maximum running speed 1.4 times.

(6) Outlet Flange

The inlet flange is made of high-grade cold-rolling sheet with polyester coating. The outlet flange is made of galvanized steel. The connections of the flange components to the scroll are made using a TOX non-welding process. This maintains a good flange appearance while also providing sufficient strength and rigidity.

4.Performance Chart

(1) Fan Performance Curve



Type	ADHS 560-R
Volume	q _v =10000m³/h
Total Pressure	P _{tF} =800Pa
Dynamic Pressure	P _{dF} =67Pa
Outlet Velocity	C=10.56m/s
Fan Speed	n=768r/min
Shaft Power	P _{sh} =3.43KW
A Sound Power Level	L _{WA} =87dB(A)
Total Efficiency	η _{tF} =64.8%

(2) Motor Selection

The power (P_{sh}) on the performance chart refers to the shaft power of the fan. The rated power of the drive motor equals the total required shaft input multiplied by the safety factor: P_{sh,p}=P_{sh}×K÷η_{me}. The value of mechanical drive efficiency can be obtained from Table 1. The required safety factors is provided in Table 2.

Drive Type	η _{me}
Motor Direct Drive	1
Coupling Direct Drive	0.98
V-Blet Drive	0.95

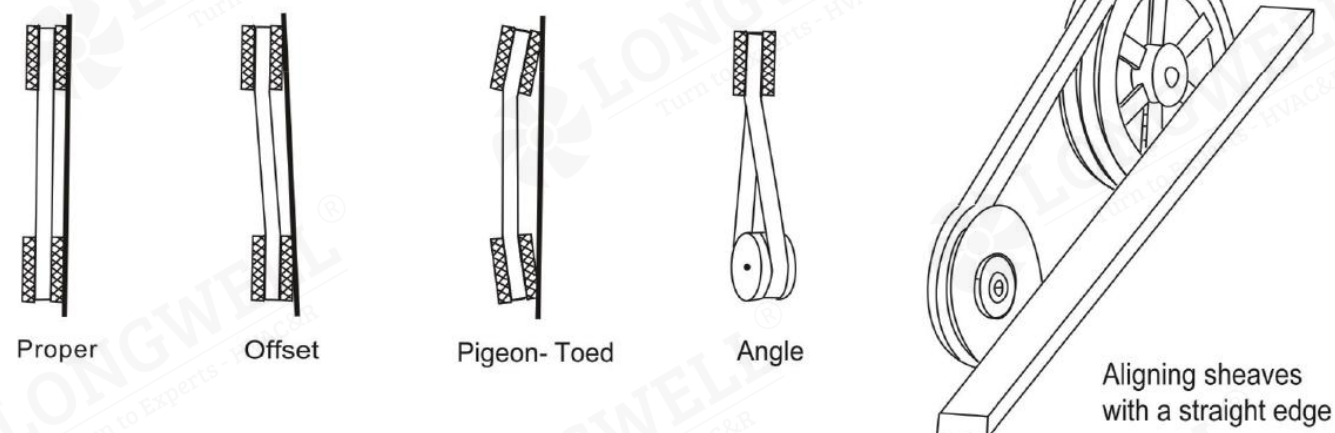
(Table 1)

Power of Electric Motor(KW)	Value K
≤0.75KW	1.3
≤2.2KW	1.2
≤7.5KW	1.15
≥11KW	1.1

(Table 2)

5.V-Belt Drive Installation

- 1.Remove the protective coating from the ends of the fan shaft and ensure that the shaft ends are free of nick and burrs.
- 2.Check fan and motor shafts for alignment.
- 3.The center distance must be controlled as $0.7(d_1+d_2)<a<2(d_1+d_2)$;the belt speed of forward curve fan should be more than 10m/s,but less than 15m/s,($10<v<15\text{m/s}$);the belt speed of backward curve fan should be more 25m/s,but less than 35m/s,($25<v<35\text{m/s}$).
- 4.Slide sheaves on to the shafts, Do not hammer the sheaves on to the shafts with force as this may result in bearing damage.
- 5.Align fan and motor sheaves with a straight-edge, and tighten the sheaves.
6. Place belts over the sheaves with care. Do not bend or squeeze the belts or it might get damaged.
7. Adjust the belt tension until the belts appear snug. Run the unit for a few minutes and allow the belts to set properly.
8. Switch off the fan, adjust the belt tension by moving the motor base. When in operation, the tight side of the belts should be in a straight line from sheave to sheave and there should be a slight bow on the slack side.



6.Belt Tenstion

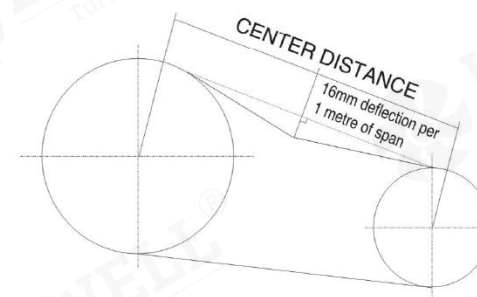
A proper level of belt tension is required in order to obtain a satisfactory belt life. If the belt tension level is too high,excessive loads will be imposed on the belts and the bearings, and this will reduce the lives of both of these components. If the belt tension level is too low,the belt will slip.Belt slippage generates a large amount of heat,and this heat will drastically reduce the life of a belt.

Belt-tensioning gauges can be used to determine whether the belts are tensioned properly.A chart is normally supplied with the gauge which indicates the ranges of forces required to deflect the belts by a given amount to obtain the proper belt tension level.The required forces are based upon the center distance of the sheaves and the belt cross-section. the belts are properly tensioned when the forces required to deflect the belt are within the specified range. see Fig 4 and Table 3.

If a bet-tensioning gauge is not available,then the belt should be tightened just enough so that the belt does not squeal when the ventlator is started. A very short period of noise during the starting of a ventiator is allowable,but a squeal lasting several seconds or longer ie not acceptable. After tensioning the belts and before starting the fan,check to make sure that the sheaves are properly aligned.

Realign the sheaves if necessary.note that new belts may stretch a little during inital use,so the belt tension level should be checked after a few days of operation.

Belt tension indicator applied to mid centre distance.



(Fig 4)

Belt Section	Force required to deflect belt 16mm per metre of span		
	Smiall Pulle/Diamter(mm)	Newton(N)	Kilogram Force (Kgf)
SPZ	56-95	13-20	1.3-2.0
	100-140	20-25	2.0-2.5
SPA	80-132	25-35	2.5-3.6
	140-200	35-45	3.6-4.6
SPB	112-224	45-65	4.6-6.6
	236-315	65-85	6.6-8.7
SPC	224-335	85-115	8.7-11.7
	375-560	115-150	11.7-15.3
A	80-140	10-15	1.1-1.5
B	125-200	20-30	2.0-3.1

(Table3)

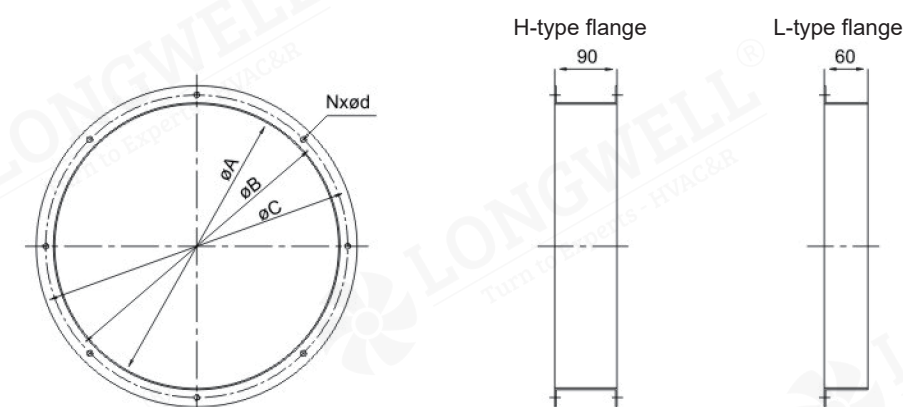
7.Bearing Lubrication

The fan bearings are filled with lubricant when they ship from the factory, so the bearings do not require any additional grease to be supplied before staring the fan. The fans that are equipped with pillow block bearing are provided with lubrication fittings, and these fitnngs allow for additional lubrication to the supplied to the bearings at regular intervals. The allowable period of time between lubrication of these bearings depends upon the operating speeds and temperatures of the bearing as well as on the type of lubrication, It is recommended to inspect the condition of the grease that is discharged from the bearings when new grease is added. If the discharged grease looks similar to the new grease, then a longer period of time between lubrications is possible. If the discharged grease is much darker than the new grease, this indicates that the grease is being oxidized and more frequent lubrications of the bearings are required.

8.Instructions

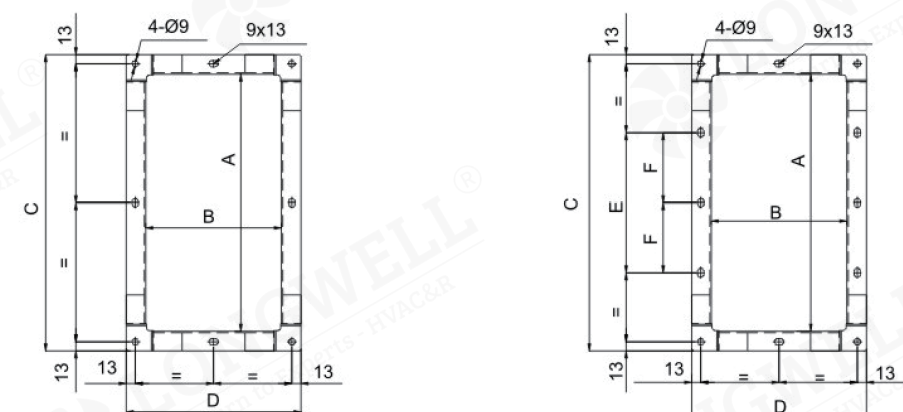
- (1) When placing the order, it is necessary to state the type of fan, speed, air volume, air pressure, discharge direction, rotation direction, type of electric motor and its specifications.
- (2) Prior to installation, the fan should be carefully inspected. Special care should be taken in checking the shalf, Wheel and bearings. If there is an indication of any damage, the damaged parts should be repaired or repaired before the fan is installed or commissioned.
- (3) The inside of the scroll and casing need to be checked to make sure that there are no foreign objects inside the housing, such as tools or loose parts.
- (4) The rotational directions of the motor and Wheel should be checked to ensure that they are in compliance with the specification and purchase orders.
- (5) A flexible connector should be used between the fan out let flange and its mating ductwork. The flex connector should not be over-stretched.
- (6) Following the installation, the Wheel should be turned by hand or with the use of a wrench to make sure that it turns freely without colliding with other parts of the fan. Once all this is done, the fan can be commissioned normally.
- (7) The rated motor power as calculatued herein might not be sufficient to drive the fan with an unrestricted discharge flow. Operating the fan with an unrestricted discharge outlet will result in flow rate that exceeds the specified fan capabilities. Such operation will quickly burn the motor and damage the fan. Great care must be taken in operating the fan to make sure that the maximum rated flows, as provided on the performance charts in this catalog, are not exceeded.
- (8) The fan is limited for use in areas where air substances are non-corrosive, non-toxics and non-erosive and where dust particles are less than 150mg/m³ with a temperature between -20℃ and 85℃. Special care should be taken during transportation, load and unload.

Imported Flange



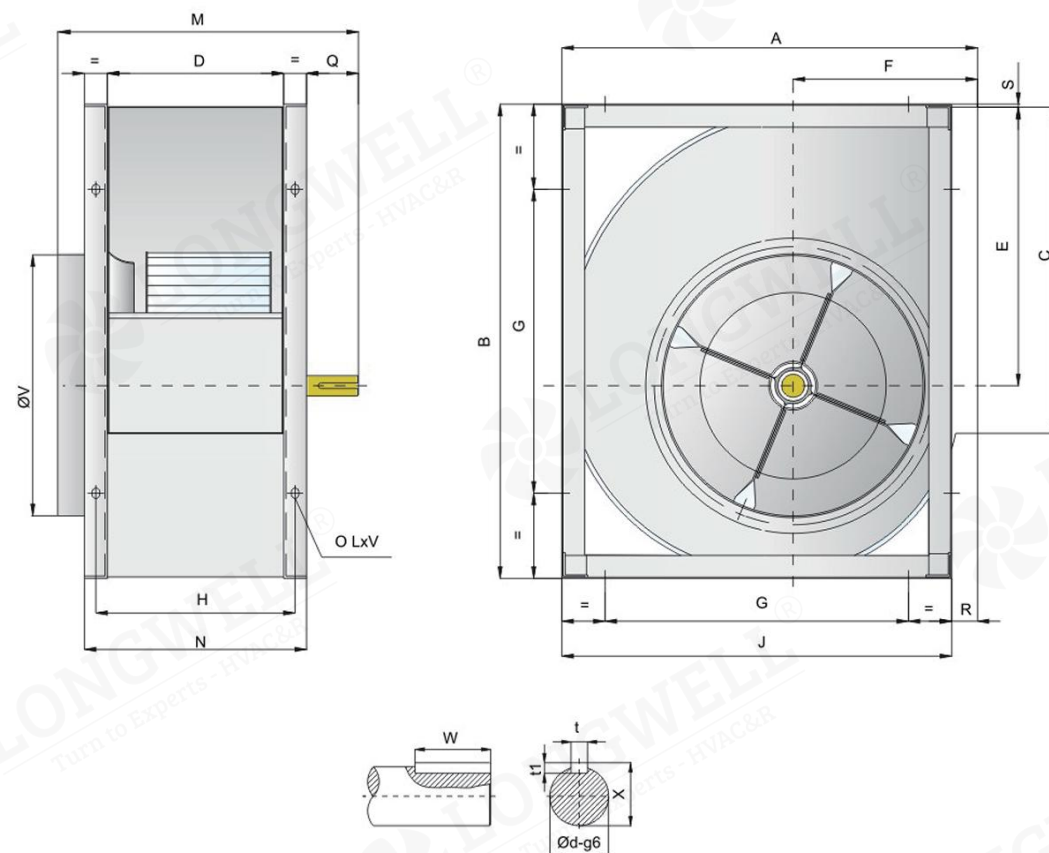
Model	280	315	355	400	450	500	560	630	710	800	900	1000
A	292	322	362	404	448	510	570	635	722	808	896	996
B	325	344	386	432	485	544	605	670	750	844	945	1044
C	355	383	423	466	515	570	635	700	778	875	980	1080
N-d	6×7	6×7	8×9	8×9	8×9	8×11	8×11	10×13	10×13	12×13	12×13	12×13

Note:Customers can choose H-type flange or L-type flange.The default is the L-type flange



Model	280	315	355	400	450	500	560	630	710	800	900	1000
A	361	404	453	507	569	638	715	801	898	1007	1130	1267
B	197	223	238	258	288	324	368	412	468	520	580	663
C	417	460	509	563	625	684	771	857	954	1063	1186	1323
D	253	279	294	314	344	380	424	468	524	576	683	719
E				200	200	250	250	300	400	500	600	700
F									200	250	300	350

TEM - R

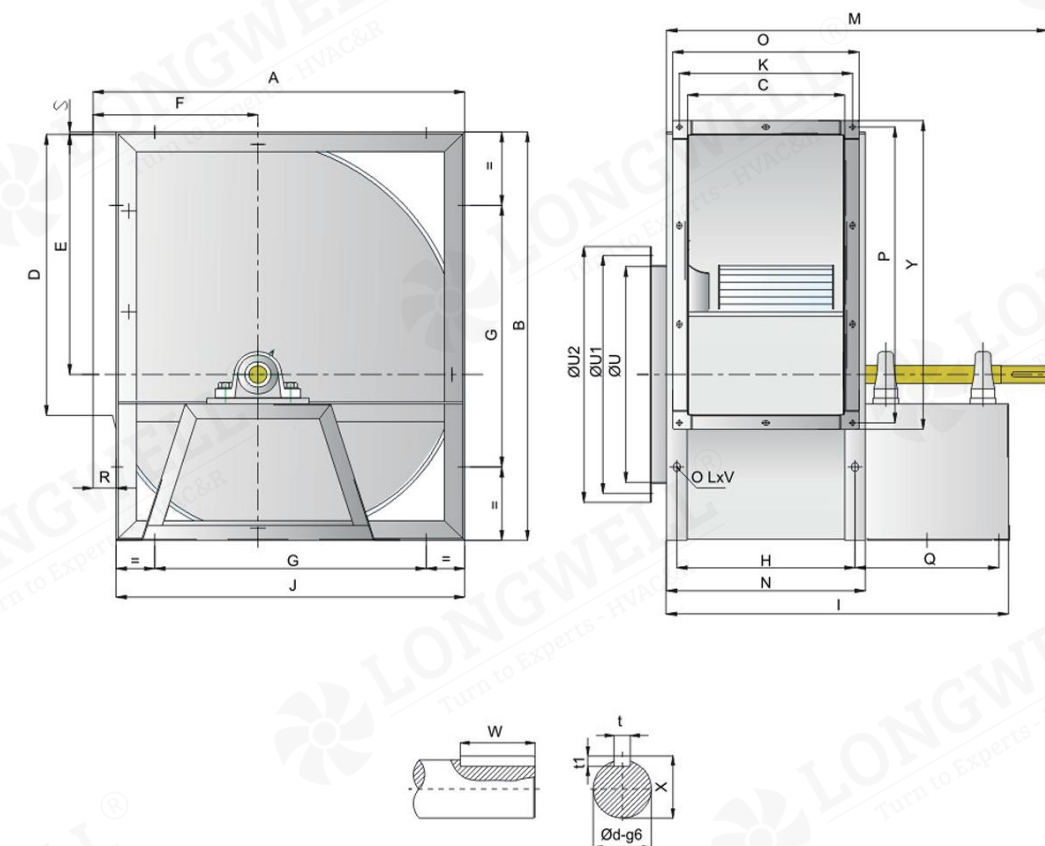


Technical Specifications

Model	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	S	V	t	t1	W	X	Φd	L×V
TEM 280-R	466	518	361	197	302	215	280	227	432	30	360	257	73	34	5	292	8	7	50	28	25	13×18
TEM 315-R	518	478	404	223	340	236	280	253	480	30	395	283	83	38	3	322	8	7	60	28	25	13×18
TEM 355-R	578	655	453	238	383	261	355	278	548	40	416	318	78	30	6	362	8	7	60	33	30	13×18
TEM 400-R	651	736	507	258	431.5	290	355	298	613	40	436	338	78	38	4.5	404	8	7	60	33	30	13×18
TEM 450-R	726	827	569	288	486	322	530	338	681	40	480	368	92	45	5	448	10	8	70	38	35	13×18
TEM 500-R	800	918	638	324	538	352	530	364	750	40	515	404	92	50	5	510	10	8	70	38	35	13×18
TEM 560-R	893	1030	715	368	602	390	530	418	845	50	585	468	87	48	8	570	12	8	70	43	40	13×18
TEM 630-R	999	1157	801	412	678.5	434	530	468	946	50	630	512	87	53	7	635	14	9	70	48.5	45	13×18
TEM 710-R	1121	1303	898	468	765	485	630	518	1058	50	715	568	115	63	7	722	14	9	90	53.5	50	17×22

Note: the size unit in the form is mm

TEM - C

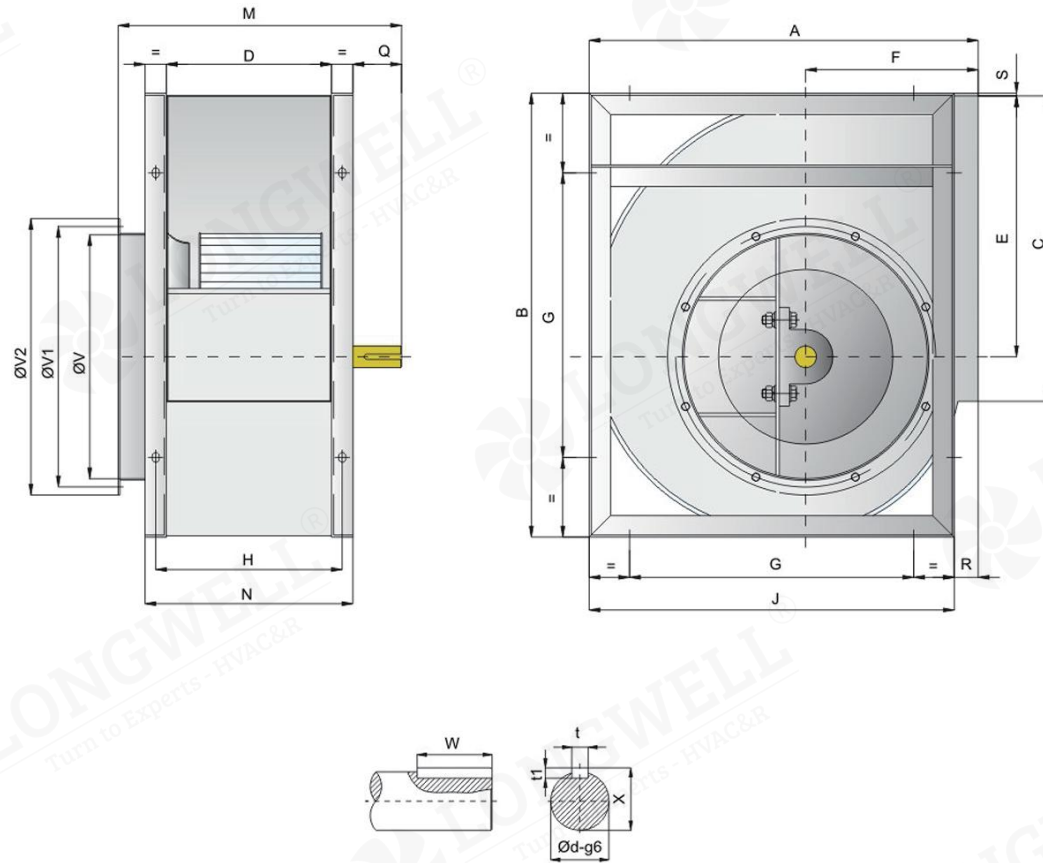


Technical Specifications

Model	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R	S	t	t1	U	U1	U2	W	X	Y	Φd	L×V
TEM 280-C	466	518	197	361	302	215	280	227	530	432	213	590	257	239	391	274	34	5	8	7	292	325	355	40	33	471	30	13×18
TEM 315-C	518	578	223	404	340	236	280	253	556	480	233	612	283	259	434	274	38	3	8	7	322	344	383	40	33	460	30	13×18
TEM 355-C	578	655	238	453	383	261	355	278	627	548	260	687	318	286	483	300	30	6	8	7	362	386	423	50	38	509	35	13×18
TEM 400-C	651	736	258	507	431.5	290	355	298	654	613	290	708	338	316	537	300	38	4.5	8	7	404	432	466	50	38	563	35	13×18
TEM 450-C	726	827	288	569	486	322	530	338	728	681	318	796	368	344	599	340	45	5	10	8	448	485	515	70	43	526	40	13×18
TEM 500-C	800	918	324	638	538	352	530	364	764	750	350	830	404	376	668	340	50	5	10	8	510	544	570	70	43	694	40	13×18
TEM 560-C	893	1030	368	715	603	390	530	418	855	845	366	930	468	414	745	378	48	8	12	8	570	605	635	90	53.5	771	50	13×18
TEM 630-C	999	1157	412	801	678.5	434	530	468	904	946	434	974	512	460	831	378	53	7	12	8	635	670	700	90	53.5	857	50	13×18
TEM 710-C	1121	1303	468	898	765	485	630	518	1005	1058	483	1105	568	512	928	436	63	7	14	9	722	750	778	90	64	954	60	17×22
TEM 800-C	1250	1468	520	1007	862	535	710	570	1060	1181	541	1167	620	567	1039	440	69	7	14	9	808	844	875	90	64	1063	60	17×22
TEM 900-C	1408	1648	582	1130	971	604	800	632	1191	1319	602	1300	702	613	1160	510	89	7	16	10	896	945	980	100	64	1186	60	17×22
TEM 1000-C	1541	1810	663	1267	1066	657	900	713	1259	1462	668	1381	783	694	1297	510	79	9	16	10	996	1044	1080	100	64	1323	60	17×22

Note: the size unit in the form is mm

TEM - E



Technical Specifications

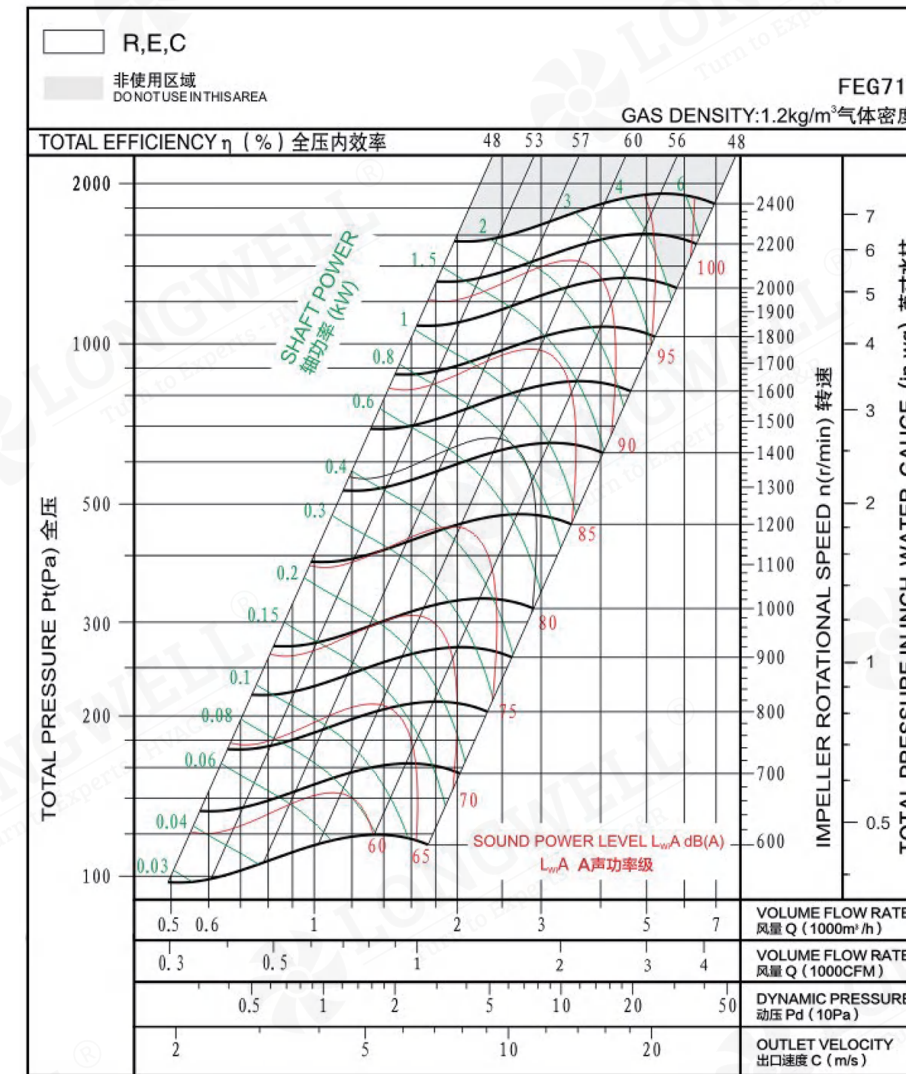
Model	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	S	V	V1	V2	t	t1	W	X	Φd	L×V
TEM 280-E	466	518	361	197	302	215	280	227	432	30	405	257	86	34	5	292	325	355	8	7	60	33	30	13×18
TEM 315-E	518	578	404	223	340	236	280	253	480	30	440	283	96	38	3	322	344	383	8	7	70	33	30	13×18
TEM 355-E	578	655	453	238	383	261	355	278	548	40	461	318	91	30	6	362	386	423	10	8	70	38	35	13×18
TEM 400-E	651	736	507	258	431.5	290	355	298	613	40	481	338	91	38	4.5	404	432	466	10	8	70	38	35	13×18
TEM 450-E	726	827	569	288	486	322	530	338	681	40	536	368	116	45	5	448	485	515	12	8	90	43	40	13×18
TEM 500-E	800	918	638	324	538	352	530	364	750	40	572	404	116	50	5	510	544	570	12	8	90	43	40	13×18
TEM 560-E	893	1030	715	368	602	390	530	418	845	50	625	468	115	48	8	570	605	635	14	9	90	53.5	50	13×18
TEM 630-E	999	1157	801	412	678.5	434	530	468	946	50	670	512	115	53	7	635	670	700	14	9	90	53.5	50	13×18
TEM 710-E	1121	1303	898	468	765	485	630	518	1058	50	736	568	126	63	7	722	750	778	18	11	90	64	60	17×22
TEM 800-E	1250	1468	1007	520	862	535	710	570	1181	50	788	620	126	69	7	808	844	875	18	11	90	64	60	17×22
TEM 900-E	1408	1648	1130	582	971	604	800	632	1319	60	867	702	135	89	7	896	945	980	18	11	100	64	60	17×22
TEM 1000-E	1541	1810	1267	663	1066	657	900	713	1462	60	950	783	135	79	9	996	1044	1080	18	11	100	64	60	17×22

Note: the size unit in the form is mm

TEM-280

Performance Curves

Performance certified is for installation type B: free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wA} sound power levels for installation type B: free inlet, ducted outlet.

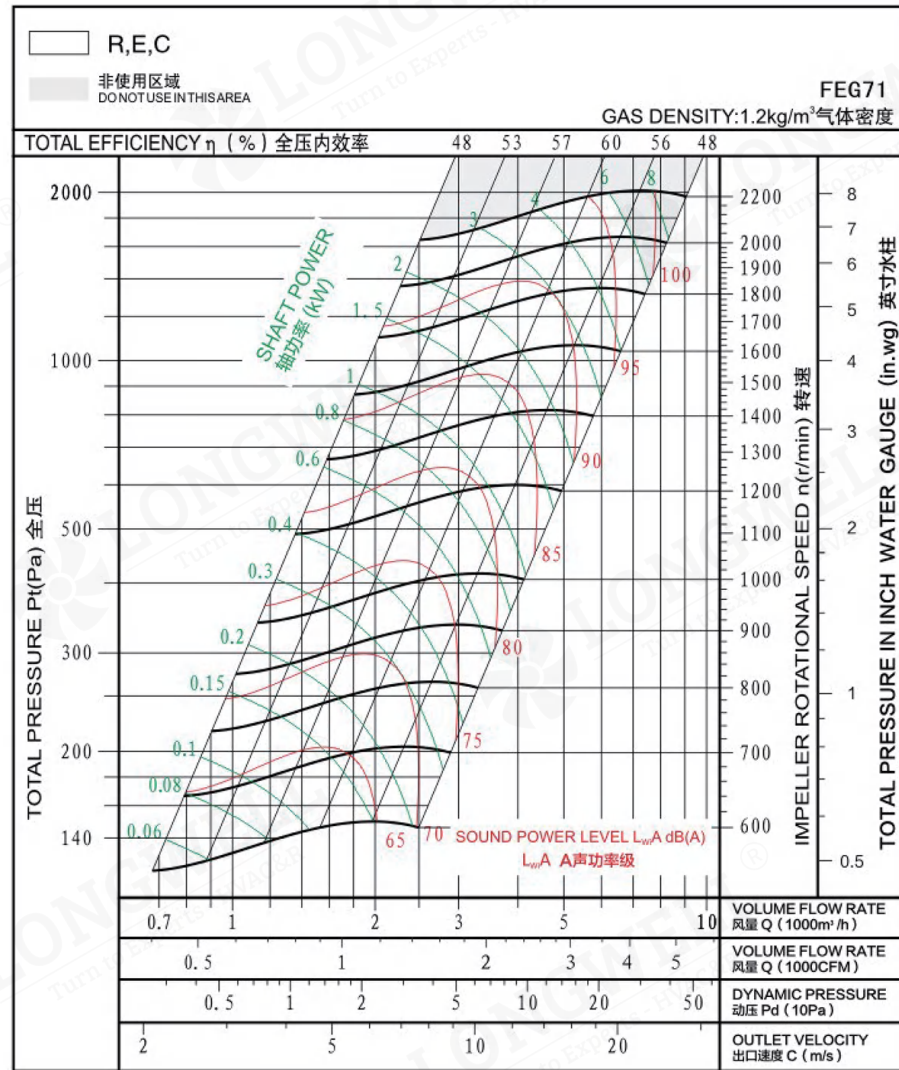


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
280mm	0.032kg·m²	2400r/min	30kg

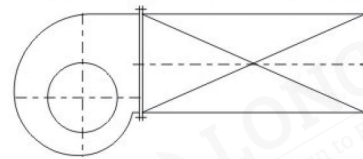
TEM-315

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{wA} sound power levels for installation type B:free inlet,ducted outlet.



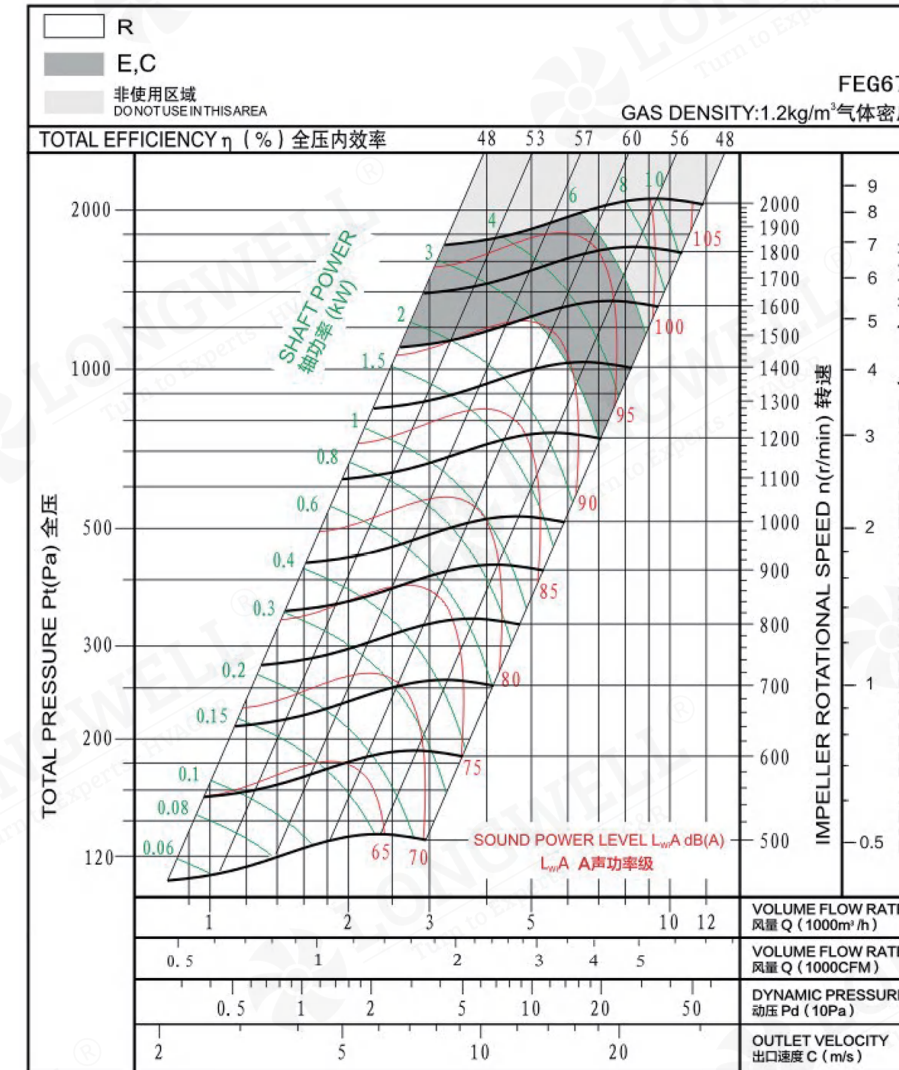
Measured in installation B according to AMCA Standard 210:



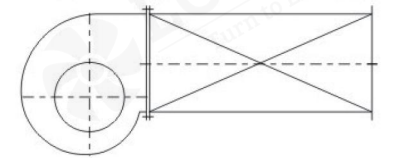
TEM-355

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{wA} sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA Standard 210:



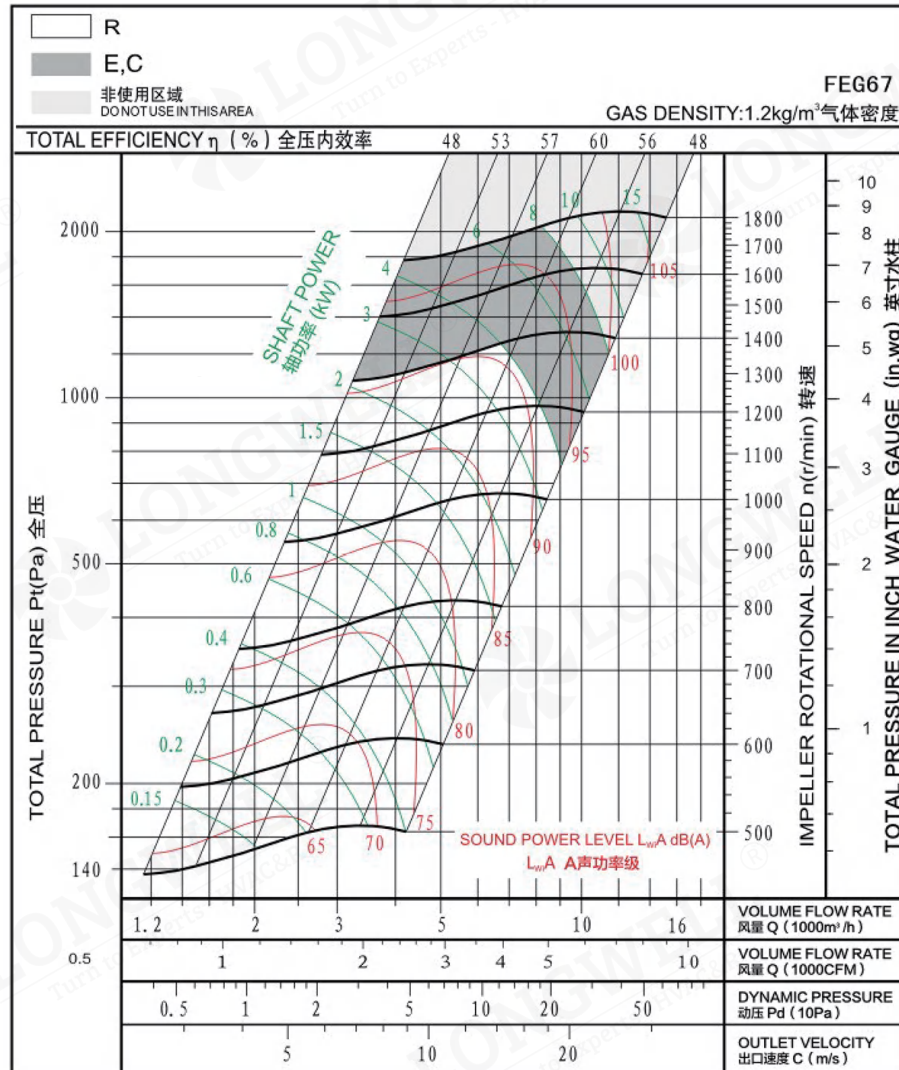
Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
315mm	0.055kg·m²	2000r/min	33kg

Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
355mm	0.083kg·m²	2000r/min	48kg

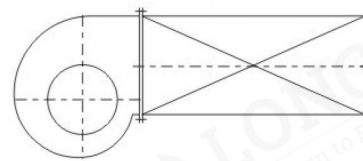
TEM-400

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.



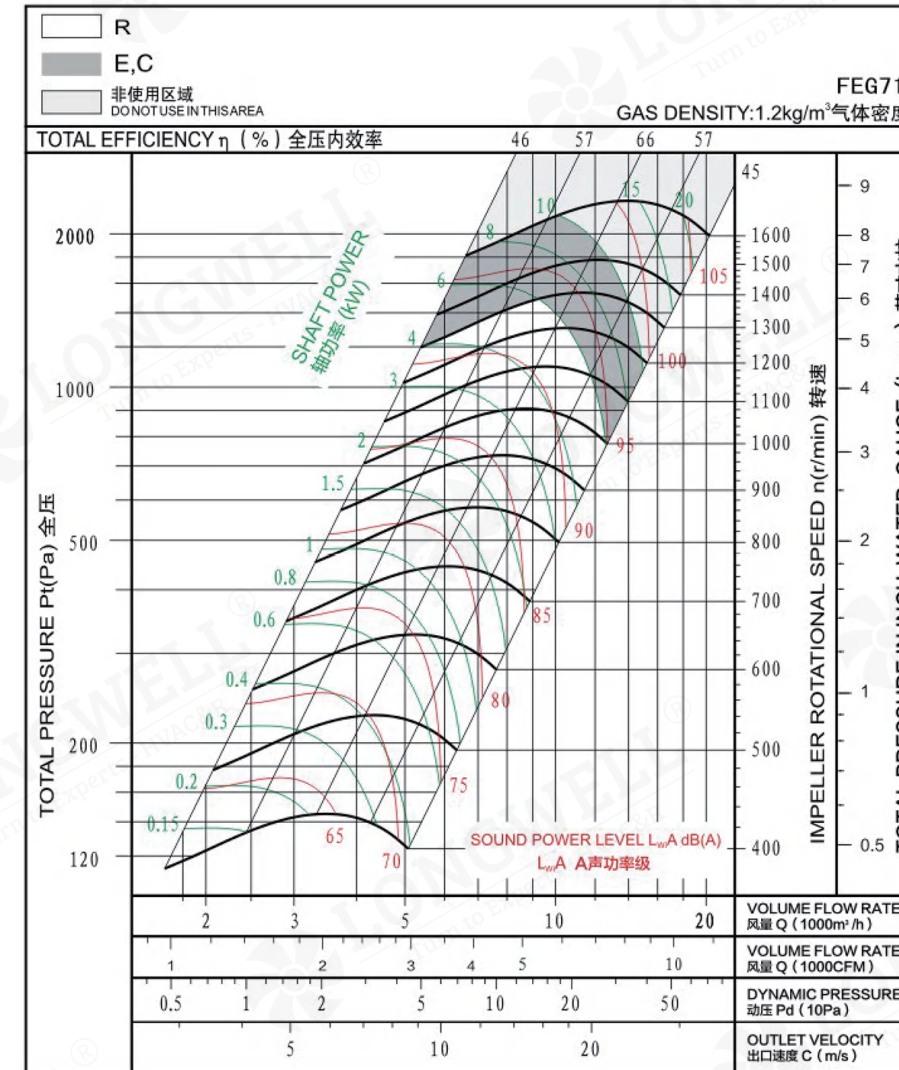
Measured in installation B according to AMCA Standard 210:



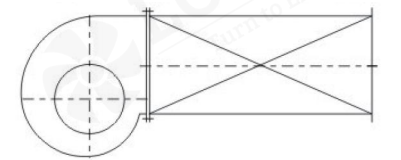
TEM-450

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA Standard 210:



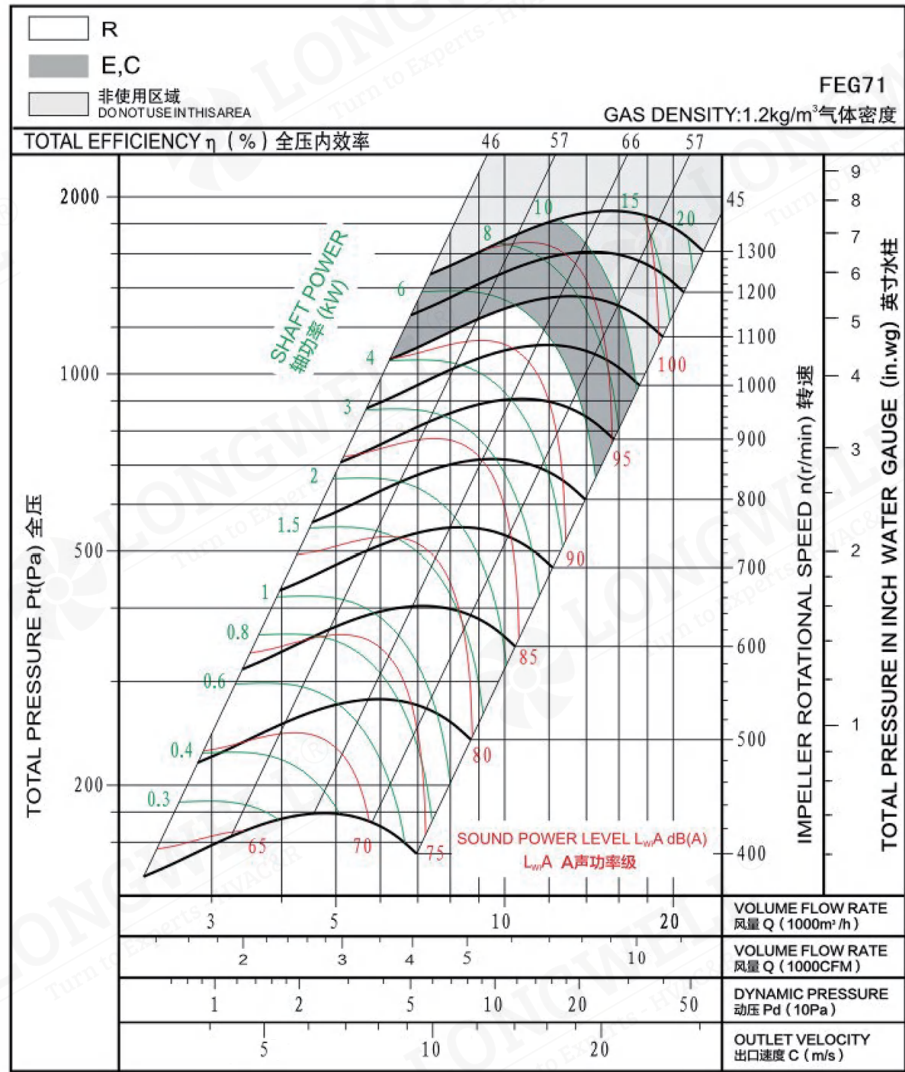
Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
400mm	0.17kg·m²	1800r/min	57kg

Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
450mm	0.26kg·m²	1600r/min	66kg

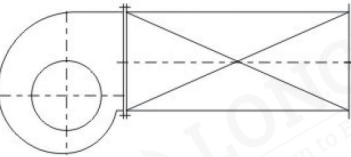
TEM-500

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA Standard 210:

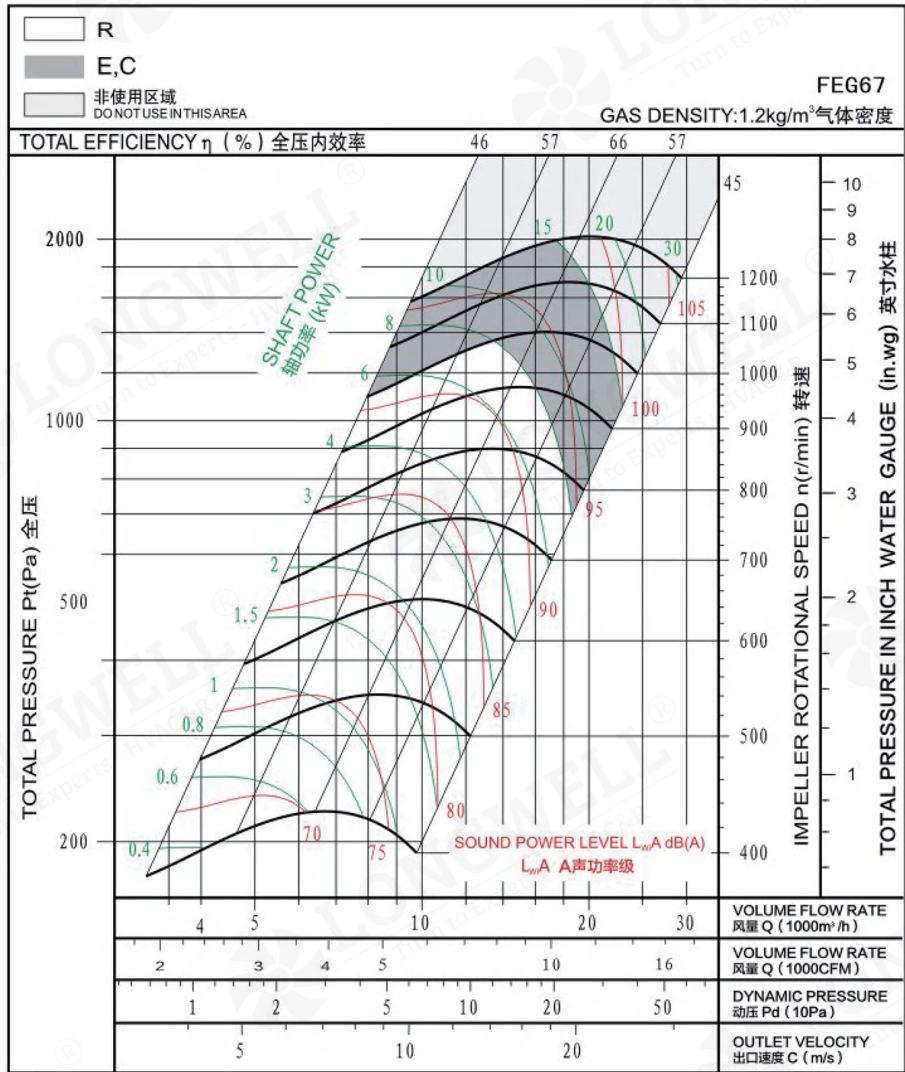


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
500mm	0.5kg·m²	1300r/min	85kg

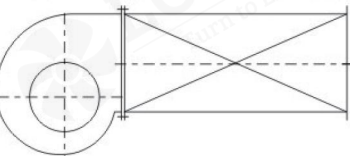
TEM-560

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.



Measured in installation B according to AMCA Standard 210:

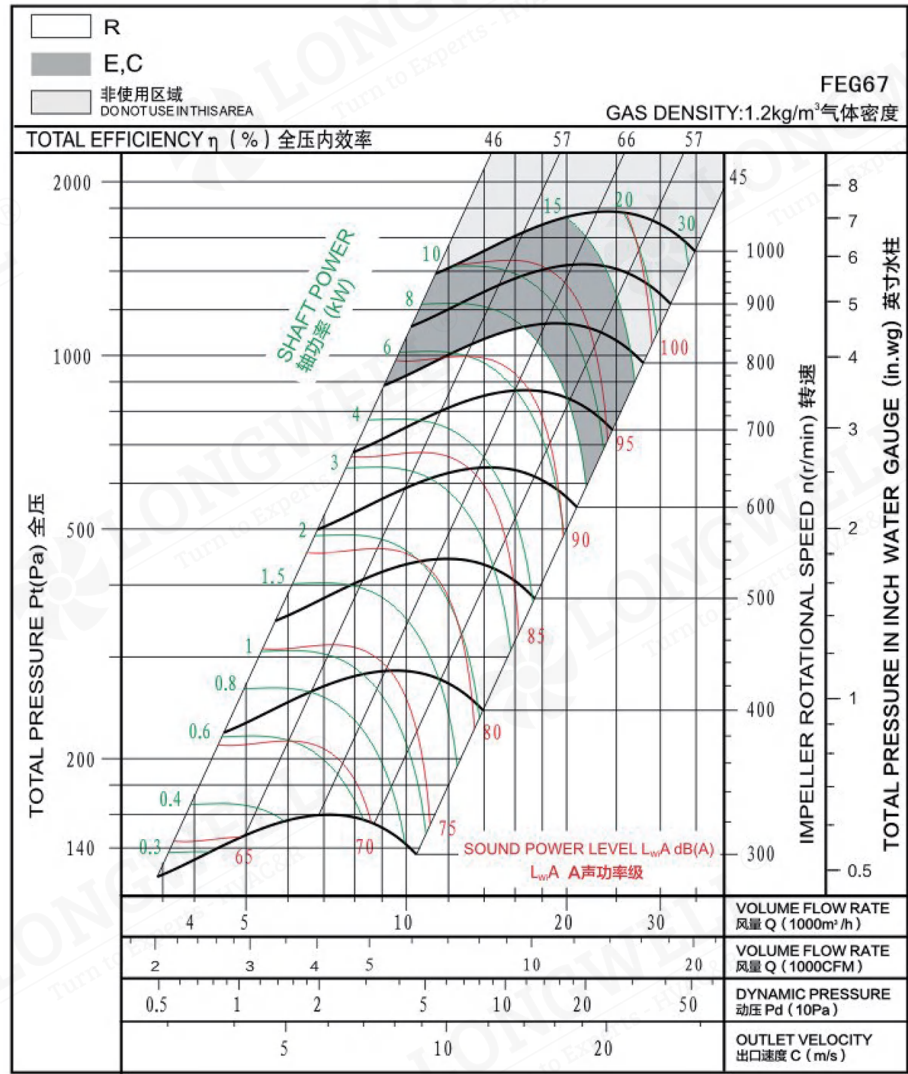


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
560mm	0.86kg·m²	1200r/min	115kg

TEM-630

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.

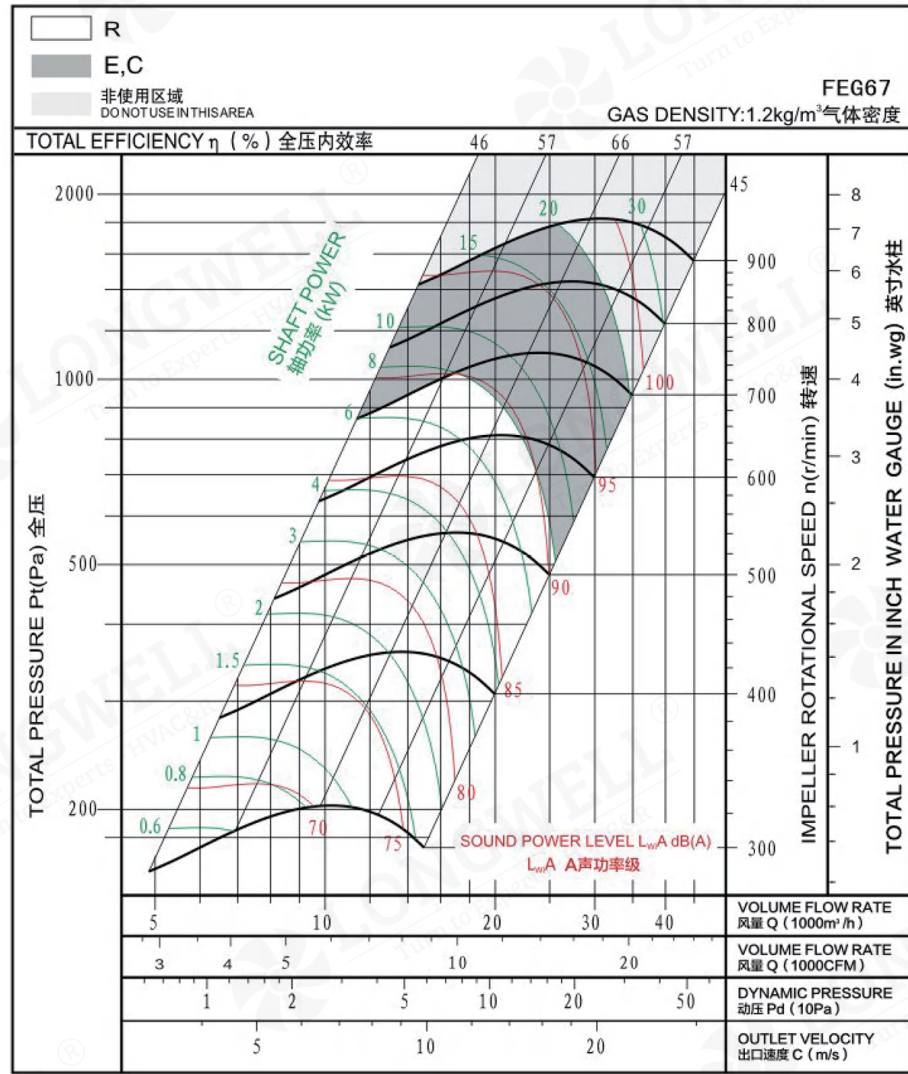


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
630mm	1.42kg·m²	1000r/min	130kg

TEM-710

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA} sound power levels for installation type B:free inlet,ducted outlet.

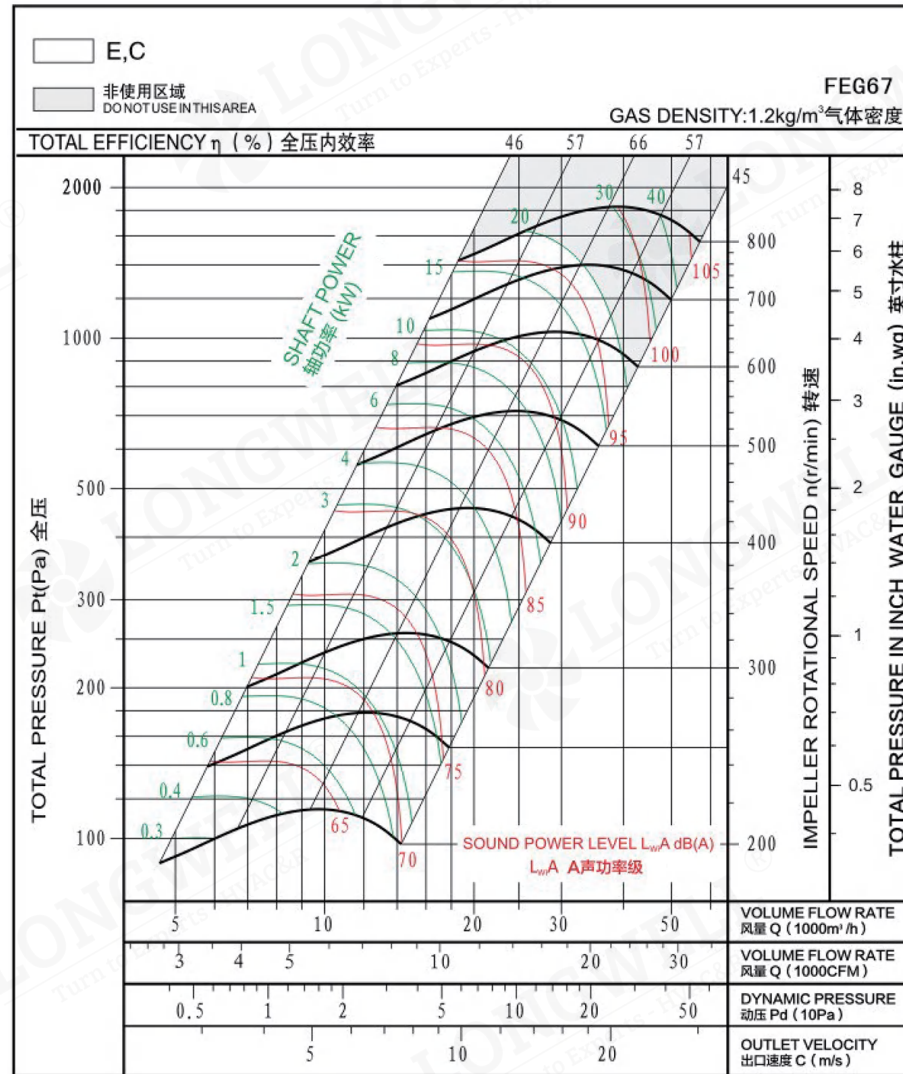


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
710mm	2.81kg·m²	900r/min	185kg

TEM-800

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{wA} sound power levels for installation type B:free inlet,ducted outlet.

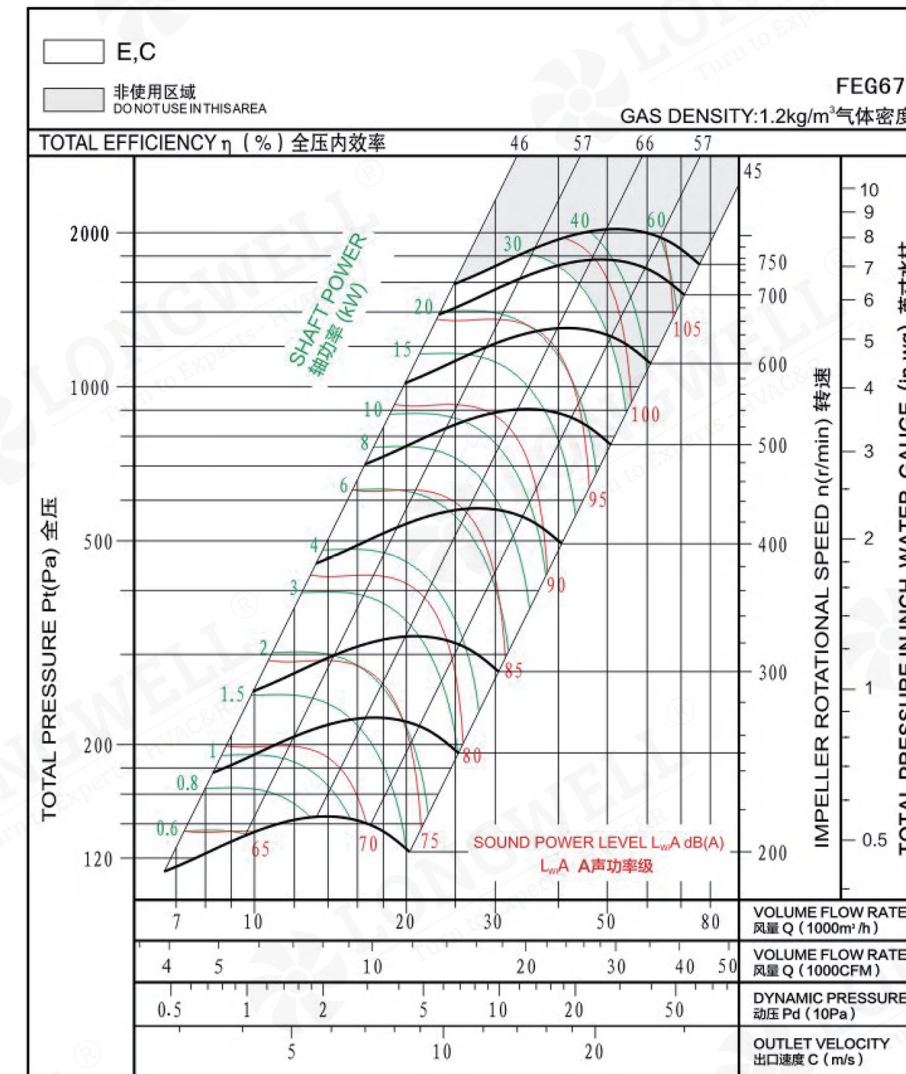


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
800mm	4.59kg·m²	800r/min	230kg

TEM-900

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{wA} sound power levels for installation type B:free inlet,ducted outlet.

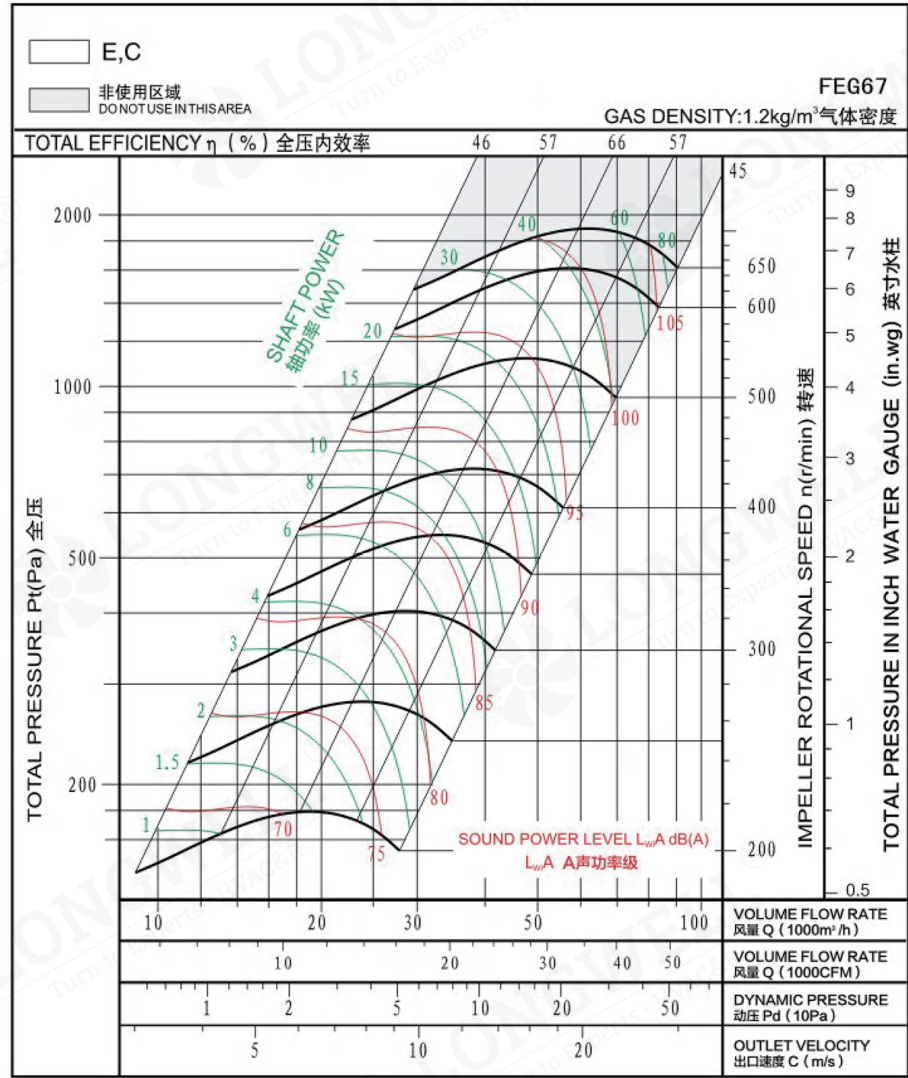


Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
900mm	6.93kg·m²	750r/min	280kg

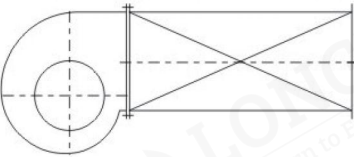
TEM-1000

Performance Curves

Performance certified is for installation type B:free inlet,ducted outlet.Power rating (kW) does not include transmission losses.Performance ratings do not include the effects of appurtenances (accessories).The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.Values shown are for inlet L_{WA}A sound power levels for installation type B:free inlet,ducted outlet.

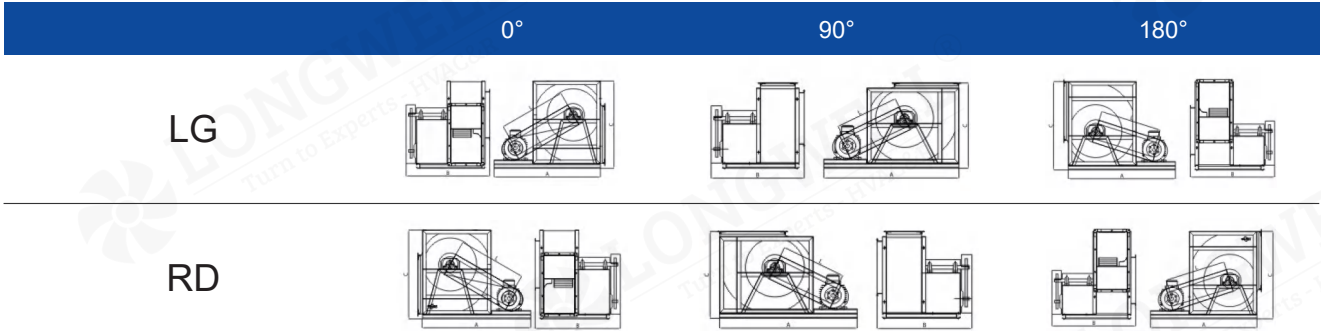


Measured in installation B according to AMCA Standard 210:



Wheel Diameter	Moment of Inertia	Speed Limit	Fan Weight
1000mm	10.3kg·m²	650r/min	315kg

TEM - C



Model	Motor Frame Size	L	A	B	C	L	A	B	C	L	A	B	C
280	80	425	760	675	568	375	850	675	516	410	760	675	568
	90	435	780	675	568	385	860	675	516	420	780	675	568
	100	445	800	675	568	395	880	675	516	430	800	675	568
	112	455	850	675	568	405	930	675	516	440	850	675	568
	132	465	870	675	568	415	950	675	516	450	870	675	568
315	80	465	800	700	628	405	900	700	568	440	800	700	628
	90	475	820	700	627	415	920	700	568	450	820	700	627
	100	485	850	700	628	425	950	700	568	460	850	700	628
	112	495	900	700	628	435	1000	700	568	470	900	700	628
355	132	505	920	700	628	445	1020	700	568	480	920	700	628
	80	515	850	775	705	445	1000	775	628	480	850	775	705
	90	525	860	775	705	455	1000	775	628	490	860	775	705
	100	535	900	775	705	465	1040	775	628	500	900	775	705
400	112	545	960	775	705	475	1080	775	628	510	960	775	705
	132	555	980	775	705	485	1100	775	628	520	980	775	705
	90	585	930	800	786	500	950	800	701	540	930	800	786
	100	595	980	800	786	510	1000	800	701	550	980	800	786
450	112	605	1030	800	786	520	1160	800	701	560	1030	800	786
	132	615	1050	800	786	530	1180	800	701	570	1050	800	786
	160	615	1100	800	786	530	1230	800	701	570	1100	800	786
	90	650	1000	894	877	548	1120	894	776	590	1000	894	877
500	100	660	1050	894	877	558	1170	894	776	600	1050	894	877
	112	670	1100	894	877	568	1220	894	776	610	1100	894	877
	132	680	1120	894	877	578	1270	894	776	620	1120	894	877
	160	680	1200	894	877	578	1350	894	776	620	1200	894	877
560	90	720	1100	930	968	610	1250	930	850	650	1100	930	968
	100	730	1130	930	968	620	1280	930	850	660	1130	930	968
	112	740	1180	930	968	630	1330	930	850	670	1180	930	968
	132	750	1200	930	968	640	1350	930	850	680	1200	930	968
	160	750	1280	930	968	640	1440	930	850	680	1280	930	968
	90	805	1210	1020	1093	680	1370	1020	956	720	1210	1020	1093
	112	815	1260	1020	1093	690	1420	1020	956	730	1260	1020	1093
	132	825	1280	1020	1093	700	1460	1020	956	740	1280	1020	1093
	160	835	1360	1020	1093	710	1540	1020	956	750	1360	1020	1093
	180	845	1400	1020	1093	720	1580	1020	956	760	1400	1020	1093

Note: the size unit in the form is mm

TEM - C

														0°	90°	180°
														LG		
														RD		
Model	Motor Frame Size	L	B	C	D	L	B	C	D	L	B	C	D			
630	100	895	1310	1065	1220	755	1530	1065	1062	795	1310	1065	1220			
	112	905	1360	1065	1220	765	1580	1065	1062	805	1360	1065	1220			
	132	915	1380	1065	1220	775	1600	1065	1062	815	1380	1065	1220			
	160	930	1450	1065	1220	790	1680	1065	1062	830	1450	1065	1220			
	180	940	1500	1065	1220	800	1730	1065	1062	840	1500	1065	1220			
	200	950	1550	1065	1220	810	1780	1065	1062	850	1550	1065	1220			
710	100	1005	1430	1185	1366	840	1670	1185	1184	885	1430	1185	1366			
	112	1015	1480	1185	1366	850	1720	1185	1184	895	1480	1185	1366			
	132	1025	1500	1185	1366	860	1740	1185	1184	905	1500	1185	1366			
	160	1040	1570	1185	1366	875	1800	1185	1184	920	1570	1185	1366			
	180	1050	1620	1185	1366	885	1850	1185	1184	930	1620	1185	1366			
	200	1060	1670	1185	1366	895	1900	1185	1184	940	1670	1185	1366			
800	225	1070	1700	1185	1366	905	1930	1185	1184	950	1700	1185	1366			
	112	1130	1580	1245	1548	950	1880	1245	1330	990	1580	1245	1548			
	132	1140	1600	1245	1548	960	1900	1245	1330	1000	1600	1245	1548			
	160	1155	1650	1245	1548	975	1950	1245	1330	1015	1650	1245	1548			
	180	1165	1720	1245	1548	985	2020	1245	1330	1025	1720	1245	1548			
	200	1175	1770	1245	1548	995	2070	1245	1330	1035	1770	1245	1548			
900	225	1185	1820	1245	1548	1005	2120	1245	1330	1045	1820	1245	1548			
	250	1195	1880	1245	1548	1015	2180	1245	1330	1055	1880	1245	1548			
	112	1270	1730	1375	1728	1060	2060	1375	1488	1110	1730	1375	1728			
	132	1280	1750	1375	1728	1070	2080	1375	1488	1110	1750	1375	1728			
	160	1295	1800	1375	1728	1085	2130	1375	1488	1125	1800	1375	1728			
	180	1310	1880	1375	1728	1095	2220	1375	1488	1135	1880	1375	1728			
1000	200	1320	1920	1375	1728	1105	2250	1375	1488	1145	1920	1375	1728			
	225	1330	1980	1375	1728	1115	2320	1375	1488	1155	1980	1375	1728			
	250	1340	2050	1375	1728	1125	2380	1375	1488	1165	2050	1375	1728			
	132	1400	1900	1450	1890	1175	2250	1450	1621	1215	1900	1450	1890			
	160	1415	1950	1450	1890	1190	2300	1450	1621	1230	1950	1450	1890			
	180	1425	2030	1450	1890	1200	2380	1450	1621	1240	2030	1450	1890			

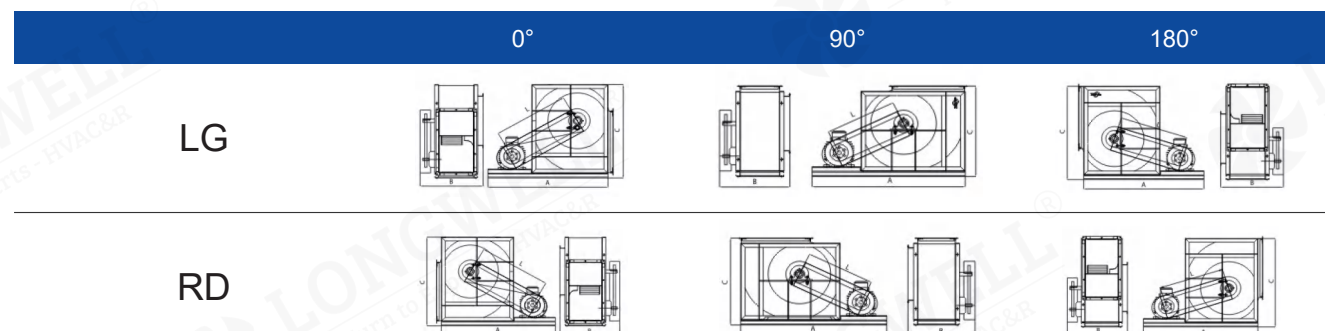
Note: the size unit in the form is mm

TEM - E

														0°	90°	180°
														LG		
														RD		
Model	Motor Frame Size	L	A	B	C	L	A	B	C	L	A	B	C			
280	80	425	760	430	568	375	850	430	516	410	760	430	568			
	90	435	780	430	568	385	860	430	516	420	780	430	568			
	100	445	800	430	568	395	880	430	516	430	800	430	568			
	112	455	850	430	568	405	930	430	516	440	850	430	568			
	132	465	870	430	568	415	950	430	516	450	870	430	568			
	80	465	800	465	628	405	900	465	568	440	800	465	628			
315	90	475	820	465	627	415	920	465	568	450	820	465	627			
	100	485	850	465	628	425	950	465	568	460	850	465	628			
	112	495	900	465	628	435	1000	465	568	470	900	465	628			
	132	505	920	465	628	445	1020	465	568	480	920	465	628			
355	80	515	850	495	705	445	1000	495	628	480	850	495	705			
	90	525	860	495	705	455	1000	495	628	490	860	495	705			
	100	535	900	495	705	465	1040	495	628	500	900	495	705			
	112	545	960	495	705	475	1080	495	628	510	960	495	705			
400	132	555	980	495	705	485	1100	495	628	520	980	495	705			
	90	585	930	525	786	500	950	525	701	540	930	525	786			
	100	595	980	525	786	510	1000	525	701	550	980	525	786			
	112	605	1030	525	786	520	1160	525	701	560	1030	525	786			
	132	615	1050	525	786	530	1180	525	701	570	1050	525	786			
	160	615	1100	525	786	530	1230	525	701	570	1100	525	786			
450	90	650	1000	580	877	548	1120	580	776	590	1000	580	877			
	100	660	1050	580	877	558	1170	580	776	600	1050	580	877			
	112	670	1100	580	877	568	1220	580	776	610	1100	580	877			
	132	680	1120	580	877	578	1270	580	776	620	1120	580	877			
500	160	680	1200	580	877	578	1350	580	776	620	1200	580	877			
	90	720	1100	620	968	610	1250	620	850	650	1100	620	968			
	100	730	1130	620	968	620	1280	620	850	660	1130	620	968			
	112	740	1180	620	968	630	1330	620	850	670	1180	620	968			
	132	750	1200	620	968	640	1350	620	850	680	1200	620	968			
	160	750	1280	620	968	640	1440	620	850	680	1280	620	968			
560	100	805	1210	665	1093	680	1370	665	956	720	1210	665	1093			
	112	815	1260	665	1093	690	1420	665	956	730	1260	665	1093			
	132	825	1280	665	1093	700	1460	665	956	740	1280	665	1093			
	160	835	1360	665	1093	710	1540	665	956	750	1360	665	1093			

Note: the size unit in the form is mm

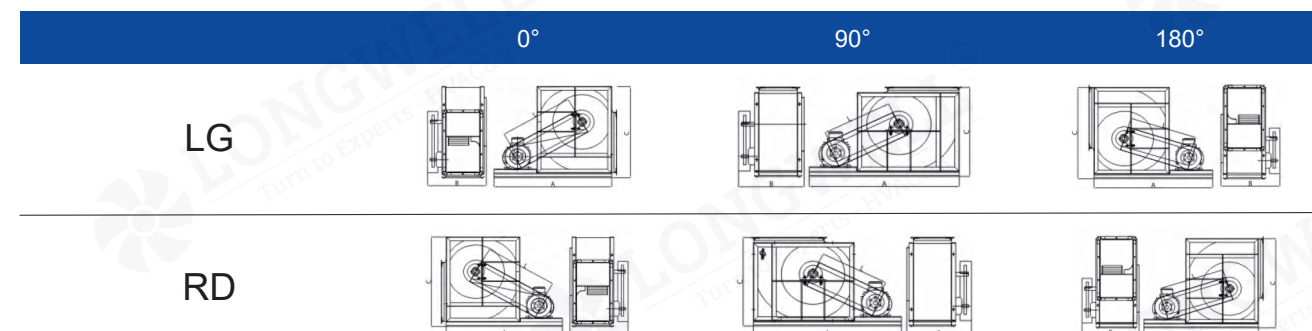
TEM - E



Model	Motor Frame Size	L	B	C	D	L	B	C	D	L	B	C	D
630	100	895	1310	715	1220	755	1530	715	1062	795	1310	715	1220
	112	905	1360	715	1220	765	1580	715	1062	805	1360	715	1220
	132	915	1380	715	1220	775	1600	715	1062	815	1380	715	1220
	160	930	1450	715	1220	790	1680	715	1062	830	1450	715	1220
	180	940	1500	715	1220	800	1730	715	1062	840	1500	715	1220
	200	950	1550	715	1220	810	1780	715	1062	850	1550	715	1220
710	100	1005	1430	770	1366	840	1670	770	1184	885	1430	770	1366
	112	1015	1480	770	1366	850	1720	770	1184	895	1480	770	1366
	132	1025	1500	770	1366	860	1740	770	1184	905	1500	770	1366
	160	1040	1570	770	1366	875	1800	770	1184	920	1570	770	1366
	180	1050	1620	770	1366	885	1850	770	1184	930	1620	770	1366
	200	1060	1670	770	1366	895	1900	770	1184	940	1670	770	1366
800	225	1070	1700	770	1366	905	1930	770	1184	950	1700	770	1366
	112	1130	1580	825	1548	950	1880	825	1330	990	1580	825	1548
	132	1140	1600	825	1548	960	1900	825	1330	1000	1600	825	1548
	160	1155	1650	825	1548	975	1950	825	1330	1015	1650	825	1548
	180	1165	1720	825	1548	985	2020	825	1330	1025	1720	825	1548
	200	1175	1770	825	1548	995	2070	825	1330	1035	1770	825	1548
900	225	1185	1820	825	1548	1005	2120	825	1330	1045	1820	825	1548
	250	1195	1880	825	1548	1015	2180	825	1330	1055	1880	825	1548
	112	1270	1730	905	1728	1060	2060	905	1488	1110	1730	905	1728
	132	1280	1750	905	1728	1070	2080	905	1488	1110	1750	905	1728
	160	1295	1800	905	1728	1085	2130	905	1488	1125	1800	905	1728
	180	1310	1880	905	1728	1095	2220	905	1488	1135	1880	905	1728
1000	200	1320	1920	905	1728	1105	2250	905	1488	1145	1920	905	1728
	225	1330	1980	905	1728	1115	2320	905	1488	1155	1980	905	1728
	250	1340	2050	905	1728	1125	2380	905	1488	1165	2050	905	1728
	132	1400	1900	975	1890	1175	2250	975	1621	1215	1900	975	1890
	160	1415	1950	975	1890	1190	2300	975	1621	1230	1950	975	1890
	180	1425	2030	975	1890	1200	2380	975	1621	1240	2030	975	1890

Note: the size unit in the form is mm

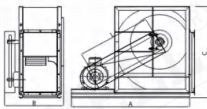
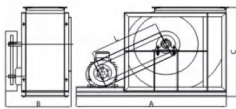
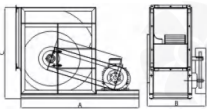
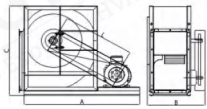
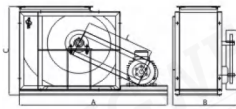
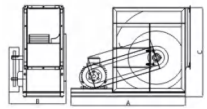
TEM - R



Model	Motor Frame Size	L	A	B	C	L	A	B	C	L	A	B	C
280	71	415	740	400	568	365	830	400	516	400	740	400	568
	80	425	760	400	568	375	850	400	516	410	760	400	568
	90	435	780	400	568	385	860	400	516	420	780	400	568
	100	445	800	400	568	395	880	400	516	430	800	400	568
	112	455	850	400	568	405	930	400	516	440	850	400	568
	71	455	780	435	628	395	880	435	568	430	780	435	628
315	80	465	800	435	628	405	900	435	568	440	800	435	628
	90	475	820	435	628	415	920	435	568	450	820	435	628
	100	485	850	435	628	425	950	435	568	460	850	435	628
	112	495	900	435	628	435	1000	435	568	470	900	435	628
355	71	505	830	465	705	435	960	465	628	470	830	465	705
	80	515	850	465	705	445	980	465	628	480	850	465	705
	90	525	860	465	705	455	1000	465	628	490	860	465	705
	100	535	900	465	705	465	1040	465	628	500	900	465	705
400	112	545	960	465	705	475	1080	465	628	510	960	465	705
	71	565	880	495	786	480	900	495	701	520	880	495	786
	80	575	900	495	786	490	920	495	701	530	900	495	786
	90	585	930	495	786	500	950	495	701	540	930	495	786
450	100	595	980	495	786	510	1000	495	701	550	980	495	786
	112	605	1030	495	786	520	1160	495	701	560	1030	495	786
	132	615	1050	495	786	530	1180	495	701	570	1050	495	786
	80	640	980	550	877	548	1100	550	776	580	980	550	877
500	90	650	1000	550	877	548	1120	550	776	590	1000	550	877
	100	660	1050	550	877	558	1170	550	776	600	1050	550	877
	112	670	1100	550	877	568	1220	550	776	610	1100	550	877
	132	680	1120	550	877	578	1270	550	776	620	1120	550	877

Note: the size unit in the form is mm

TEM - R

0°90°180°													
LG													
RD													
Model	Motor Frame Size	L	B	C	D	L	B	C	D	L	B	C	D
560	90	795	1160	635	1093	670	1320	635	956	710	1160	635	1093
	100	805	1210	635	1093	680	1370	635	956	720	1210	635	1093
	112	815	1260	635	1093	690	1420	635	956	730	1260	635	1093
	132	825	1280	635	1093	700	1460	635	956	740	1280	635	1093
	160	835	1360	635	1093	710	1540	635	956	750	1360	635	1093
630	90	885	1260	685	1220	745	1480	685	1062	785	1260	685	1220
	100	895	1310	685	1220	755	1530	685	1062	795	1310	685	1220
	112	905	1360	685	1220	765	1580	685	1062	805	1360	685	1220
	132	915	1380	685	1220	775	1600	685	1062	815	1380	685	1220
710	160	930	1450	685	1220	790	1680	685	1062	830	1450	685	1220
	90	995	1380	740	1366	830	1620	740	1184	875	1380	740	1366
	100	1005	1430	740	1366	840	1670	740	1184	885	1430	740	1366
	112	1015	1480	740	1366	850	1720	740	1184	895	1480	740	1366
	132	1025	1500	740	1366	860	1740	740	1184	905	1500	740	1366
	160	1040	1570	740	1366	875	1800	740	1184	920	1570	740	1366

Note: the size unit in the form is mm

TEM Series Ventilator Operational Limits

			280	315	355	400	450	500	560	630	710	800	900	1000
Max. absorbed Power	R	KW	4	6	3	4	6	6	8	8	10	/	/	/
	E	KW	4	6	6	8	10	10	15	15	20	20	30	40
	C	KW	4	6	6	8	10	10	15	15	20	20	30	40
Max.R.P.M	R	rpm	2400	2000	1800	1500	1300	1100	1000	800	700	/	/	/
	E	rpm	2400	2000	2000	1800	1600	1300	1200	1000	900	800	750	650
	C	rpm	3400	2000	2000	1800	1600	1300	1200	1000	900	800	750	650
Air Temperature Limits (Min-20°C)	R	Max.°C	85	85	85	85	85	85	85	85	85	/	/	/
	E	Max.°C	85	85	85	85	85	85	85	85	85	85	85	85
	C	Max.°C	180	180	180	180	180	180	180	180	180	180	180	180
Fan Weight	R	Kg	15	17	21	30	37	48	60	76	125	/	/	/
	E	Kg	23	26	39	46	51	70	95	110	162	200	245	275
	C	Kg	30	33	48	57	65	85	115	130	185	230	280	315