

## DWDI CENTRIFUGAL FAN

### **TDF**

*DWDI, Backward Curved  
CENTRIFUGAL FAN*



### **TBF**

*DWDI, Airfoil Backward Curved  
CENTRIFUGAL FAN*



### **TAE**

*DWDI, Forward Curved  
CENTRIFUGAL FAN*



### **DTC**

*DWDI, Forward Curved  
CENTRIFUGAL FAN*



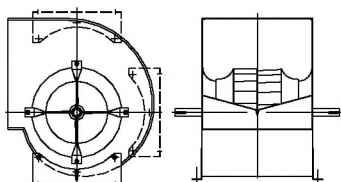
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## Outline

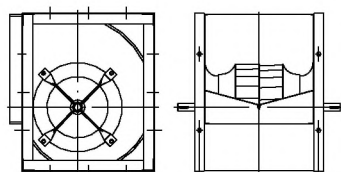
TDF, TBF, TAE, DTC Series centrifugal fan are used in HVAC system, purifiers system and other ventilator applications.

## Type of product

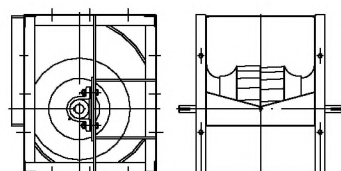
Following is the common type of product. The particular information According to the dimension chart.



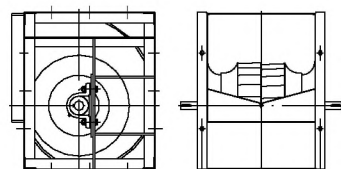
**D type fan.** Is supported with mounting feet and can mounted in three different orientations. It is used with very light load.



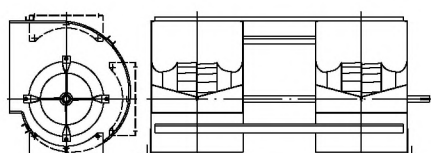
**K type fan.** Is supported with frames and can mounted in four different orientations. It is used with light load.



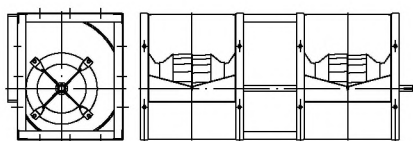
**H type fan.** Is supported with strong frames and can mounted in four different orientations. It is used with normal load.



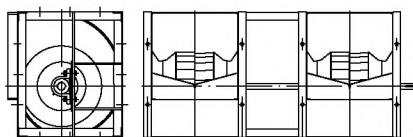
**G type fan.** Is supported with stronger frames and can mounted in four different orientations. It is used with heavy load.



**2D type twin fan.** Is supported with with mounting feet. It is used with very light load.



2K type fan. Is supported with frames and can mounted in four different orientations. It is used with light load.



2H type twin fan. Is supported with strong frames and can mounted in four different orientations. It is used with heavy load.

## Performance

### 1 Motor power

The power on the performance curve are shaft power. Motor power is decided by mechanical efficiency and Safety factor.

$$N = (N_s \cdot K) / \eta$$

$N_s$  (Shaft power of fan)

$K$  (Safety factor)

$\eta$  (Mechanical efficiency)

$K=1.25$  if  $N_s < 0.75\text{kW}$

$K=1.20$  if  $0.75\text{kW} < N_s < 10\text{kW}$

$K=1.15$  if  $N_s > 10\text{kW}$

$\eta=0.95$  for V-belt driven

### 2 Performance of twin fan

To select for twin fan, use the data of single fan with following factors:

Volume	X 2
Power	X 2.15
Speed	X 1.05
Noise	+ 3 dB

Performance of Twin Fans are not licensed by AMCA International.

### 3. Fan Noise

The noise level shown on each curve refer to the sound power A-weighted and the data on the inlet side has been measured in according with AMCA 300 standard, with B type installation.

A: Free field

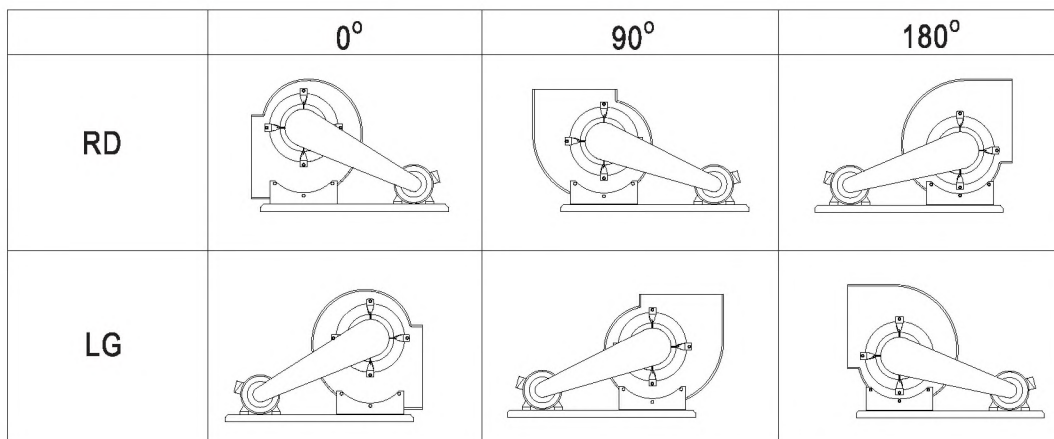
$$L_p(A) = L_w(A) - (20 \lg D) - 11$$

B: Room condition

$$L_p(A) = L_w(A) - (20 \lg D) - 7$$

“D” — Distance of fan (m)

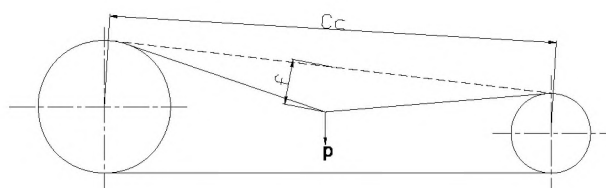
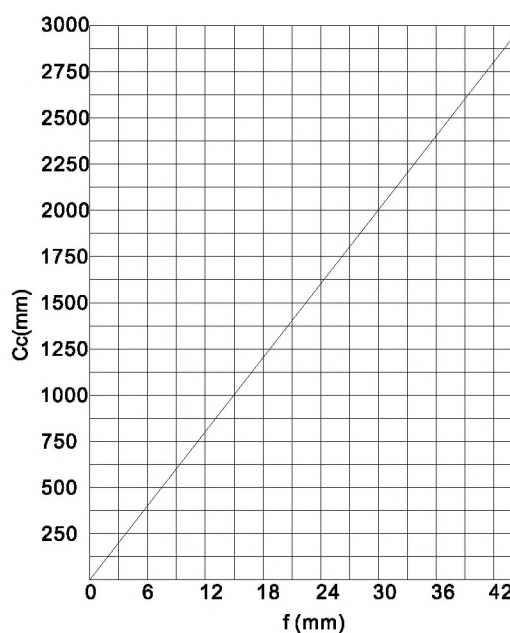
## Direction of rotation



## V-belt Tension

A proper level of belt tension is required in order to obtain a satisfactory belt life. If the belt tension level is too high, then 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, then the belt will slip. It is important to control the tension of the belt in belt installation.

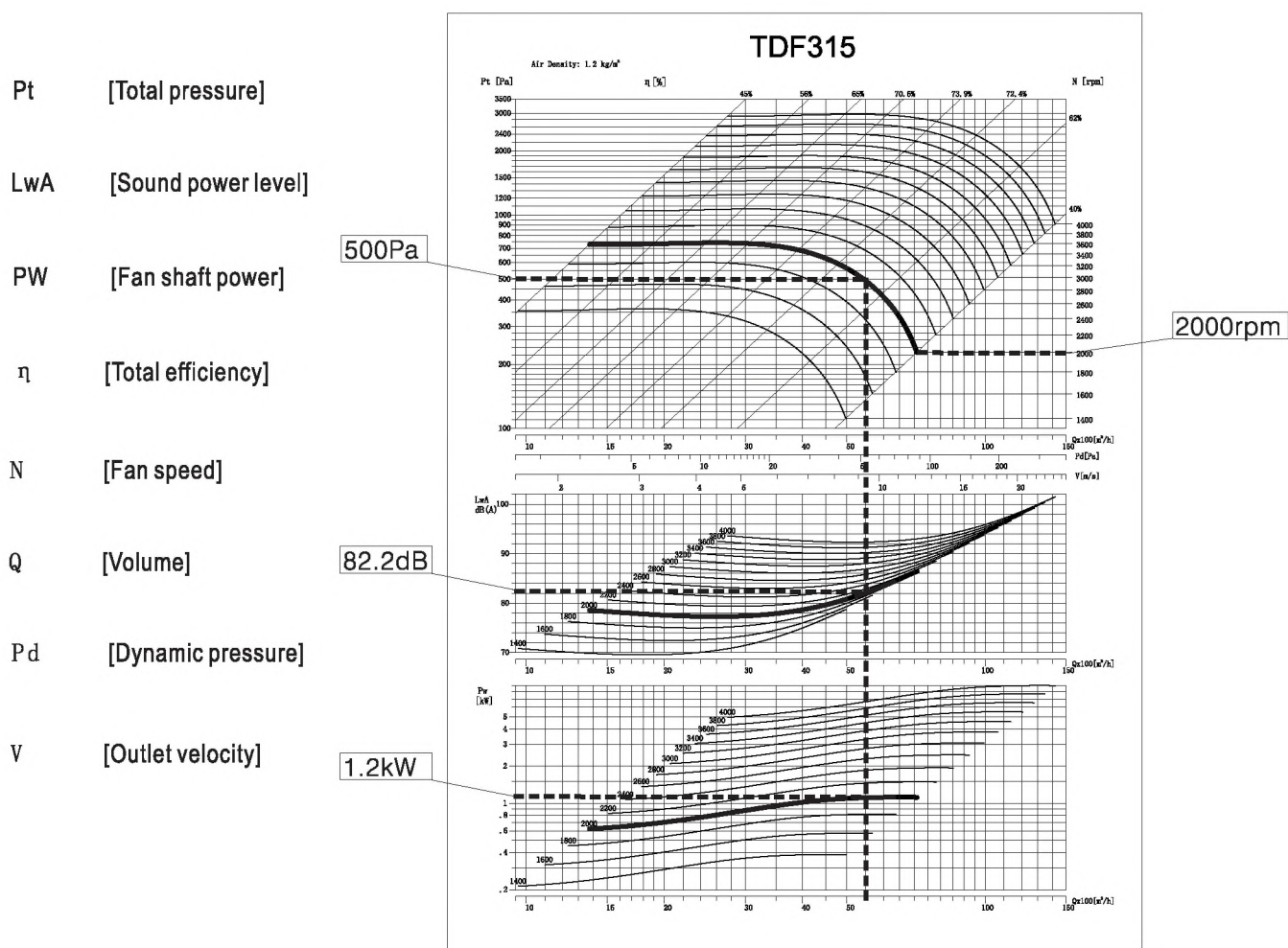
	Small pulley diameter	P Force
	(mm)	(kgf)
SPZ	63-71	1.0-1.4
	75-85	1.3-1.9
	90-112	1.5-2.3
	118-150	1.9-2.7
	160-200	2.5-3.4
SPA	90-112	2.2-2.8
	118-150	2.5-3.4
	160-200	2.9-3.8
	224-250	3.5-4.4
	280-315	4.0-5.0
SPB	140-180	3.5-4.4
	190-236	4.0-5.2
	250-315	4.6-6.0
	335-400	5.5-7.6
	450-500	6.7-9.0
SPC	250-315	7.0-10.0
	335-400	8.0-11.5
	450-500	9.0-13.0



## Bearing maintenance

The pillow block bearings are provided with lubrication fittings which can be used to supplied additional lubrication. The lubrication should be NLG#2 level. the bearings have been filled with lubrication in bearing factory.

## Example of curve reading



## TDF Series



## DWDI, Backward Curved CENTRIFUGAL FAN

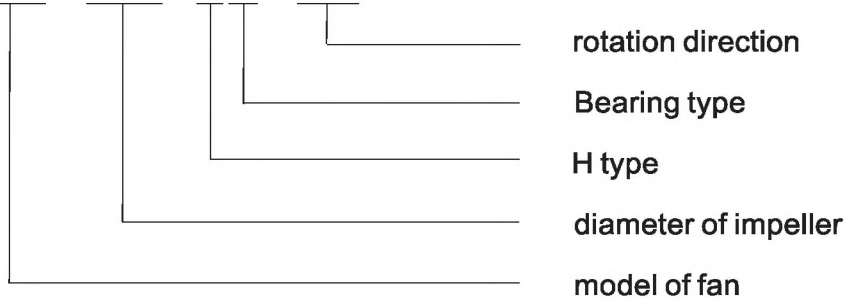


GTG Industries Sdn Bhd certifies that the TDF series for model TDF 315 to TDF 1000 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## Designation of Products

**TDF - 355 - HM - LG**

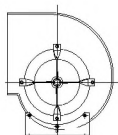
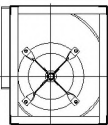
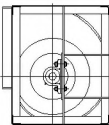
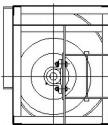
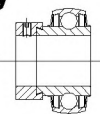
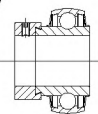
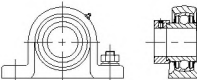
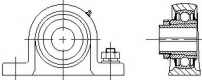
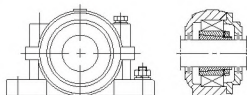


## Technical specification

- **Wheel:** backward blade.made of high grade steel sheet, it is to provide a highly efficient and low noise and special-designed blades are welded on the center disc,and inlet belling of impeller.
- **Scroll:** made of high grade galvanized steelsheet, and it is cutted by laser-cutting machine with high quality. The scroll plate is connected to the side plate by pittsburgh lock way and welding.
- **Frame:** made of angle sections steel ,and painted with polyester coatings.
- **Bearing:** out-spherial ball bearing are used in TDF.
- **Shaft:** the shaft is made of C45 carbon steel with high tolerance levels.shaft is provided corrosion resistance.
- **Balance:** all wheel are statically and dynamically balanced to ISO1940 and AMCA 204-G2.5 standard.



## Bearing type

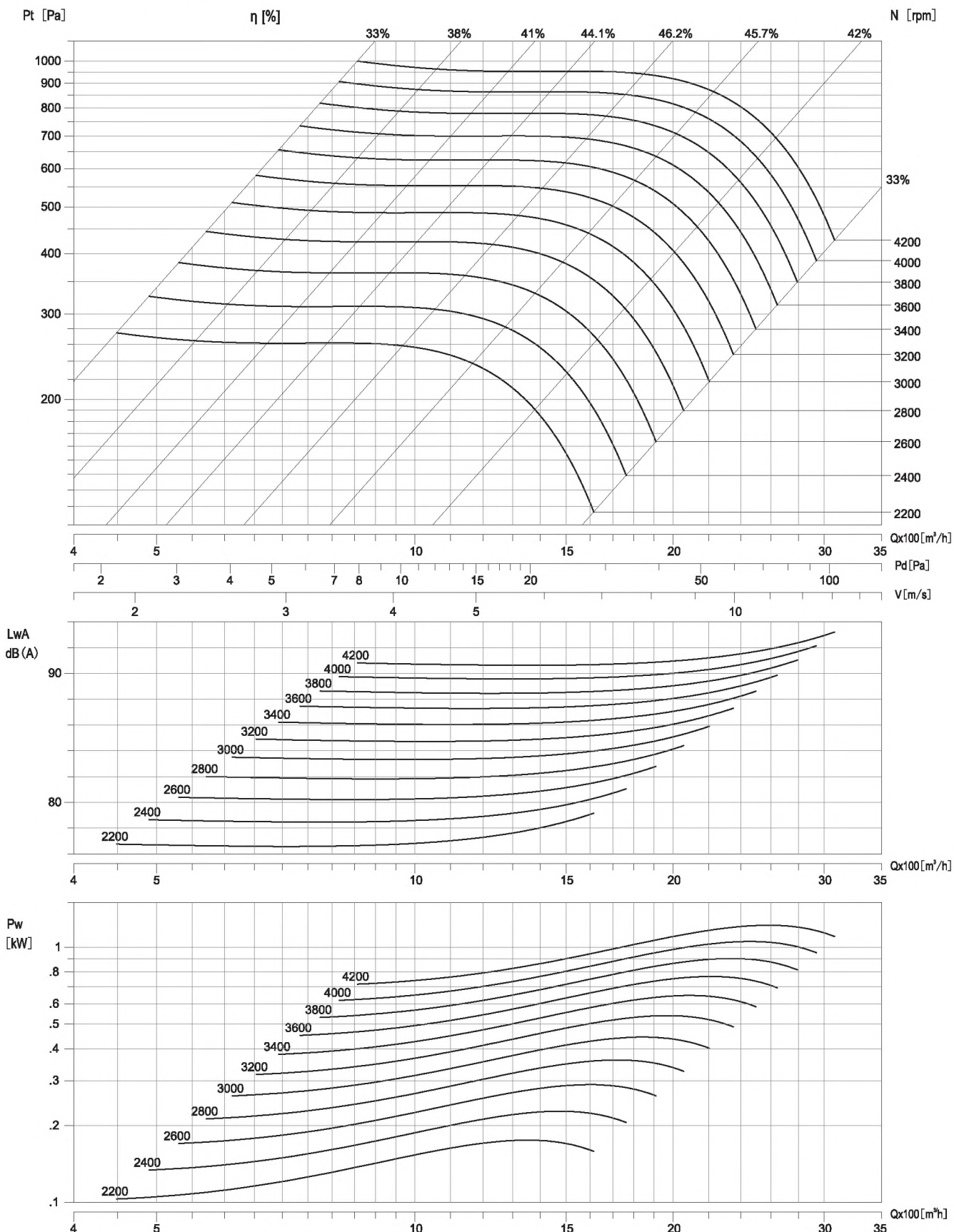
	<b>D</b>	<b>K</b>	<b>H</b>	<b>G</b>
Fan type				
Light duty	<b>DL</b> Light duty 	<b>KL</b> Light duty 	<b>HL</b> Light duty 	
Medium duty			<b>HM</b> Medium duty 	<b>GM</b> Medium duty 

## Operational limits

			Type	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	
Max. power	D-K	L	kW	1.5	1.5	2	3	4	4.5	5.5	7.5								
		H	L	kW	2	3	3	5.5	5.5	5.5	6	8	12	14	20	20	18.5	25	
		M	kW	2	3	4	8	8	15	15	15	22	30	35	40	30	43	55	
	G	M	kW									30	38.5	40	60	65	65	80	
Max. speed	D-K	L	rpm	3600	3400	3000	2800	2600	2100	1800	1500								
		H	L	rpm	3800	3600	3400	3200	2900	2400	2000	1800	1700	1500	1400	1300	1000	900	
		M	rpm	4200	4000	3800	3600	3500	3000	2600	2500	2400	2100	1900	1700	1200	1100	900	
	G	M	rpm									2800	2500	2200	2000	1600	1400	1300	
Temp. /min. -20°C	D-K	Max	°C	85	85	85	85	85	85	85	85								
	H-G	Max	°C	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Fan weight	D	L	kg	12	15	19	25	26	37	42	58								
	K	L	kg	12.5	16	20	26	27	41	45	62								
	H	L	kg	16	19	23	29	39	51.5	65	86.5	113	154.5	192.5	246.5	299	368		
		M	kg	16	19	23	29	40	53	67	89	115.5	158	197	251	299	368	451	
	G	M	kg									124	166	212	271	323	397	500	

# TDF200

Air Density: 1.2 kg/m<sup>3</sup>

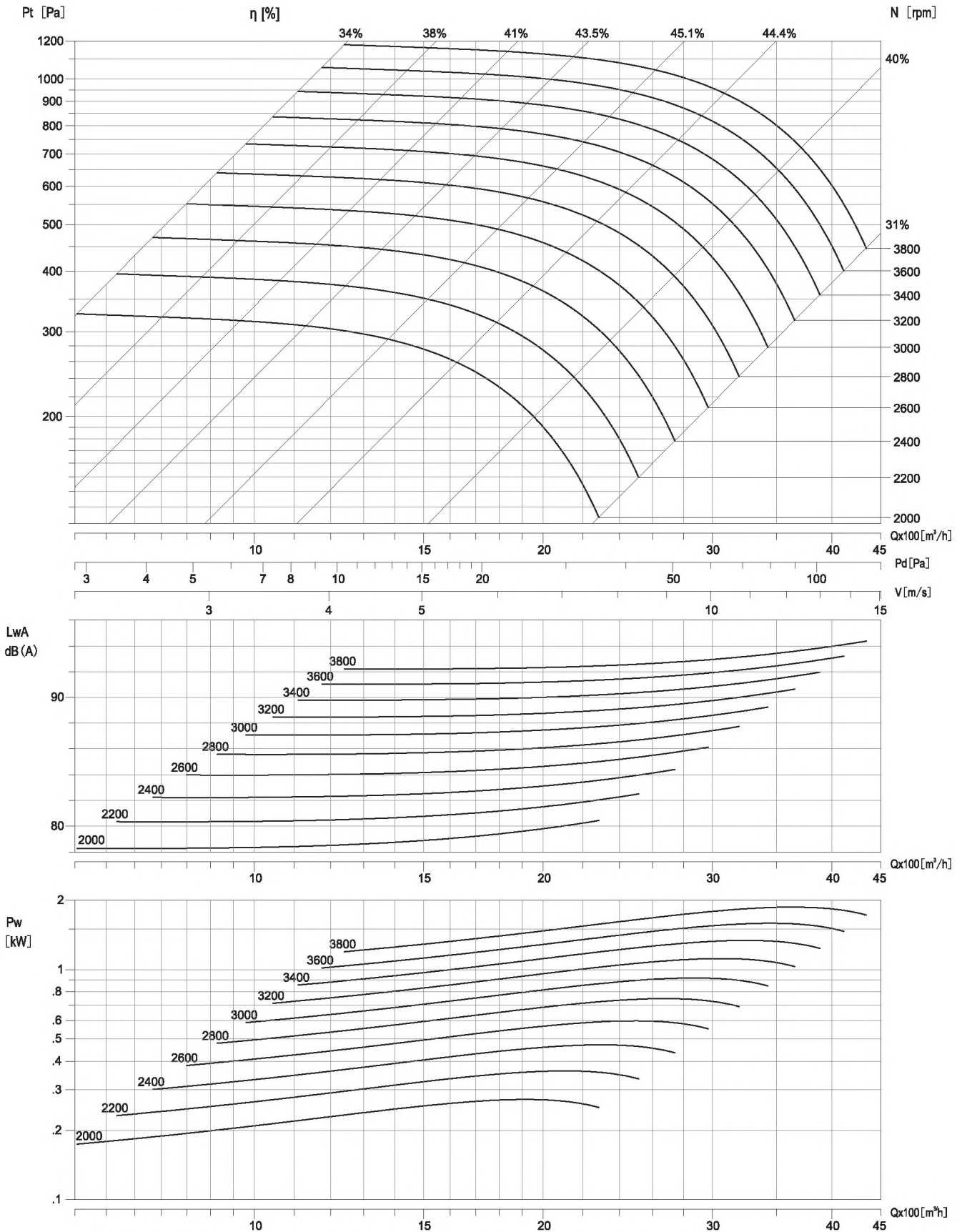


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TDF200 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TDF225

Air Density: 1.2 kg/m<sup>3</sup>

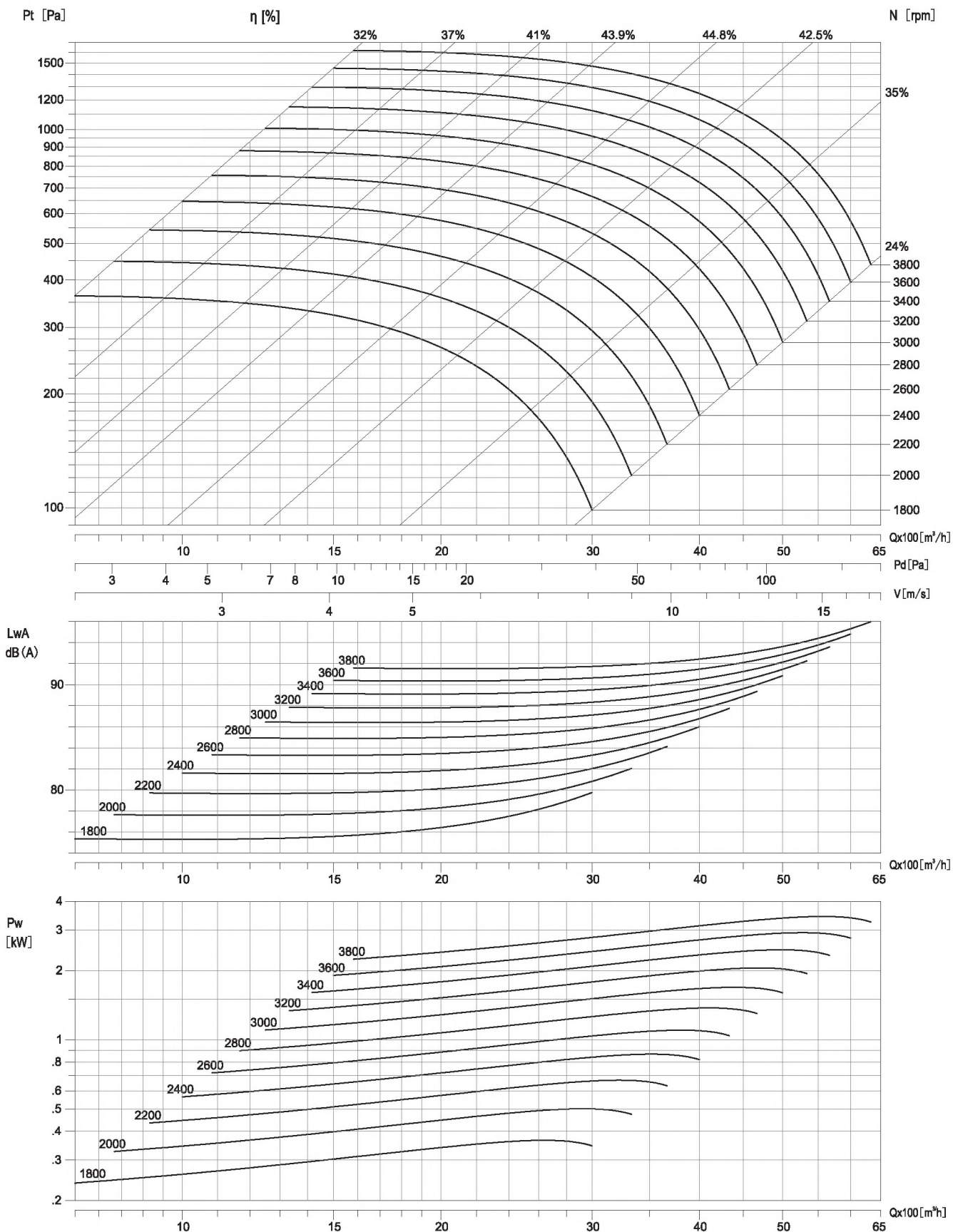


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TDF225 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TDF250

Air Density: 1.2 kg/m³

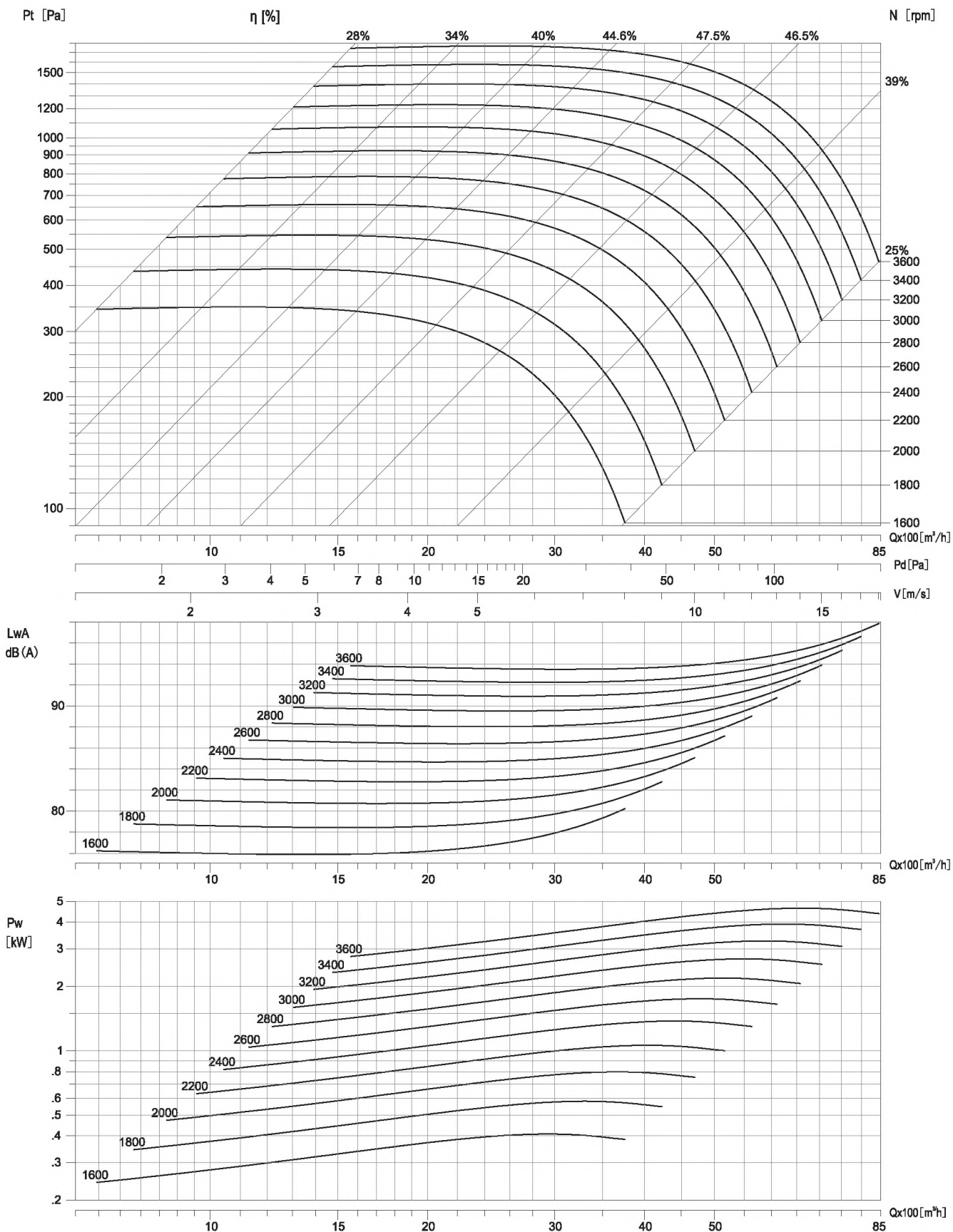


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TDF250 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TDF280

Air Density: 1.2 kg/m<sup>3</sup>



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

MODEL TDF280 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TDF315

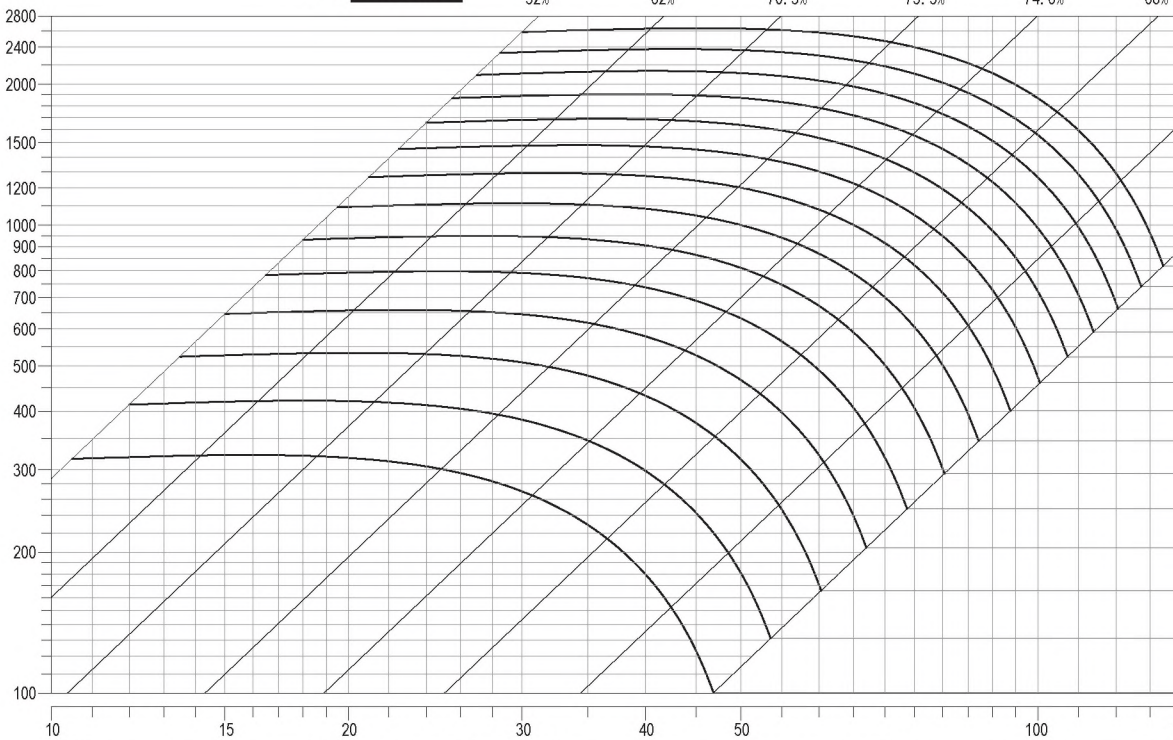
Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG90**

52%    62%    70.3%    75.5%    74.6%    68%

N [rpm]

Pt [Pa]



55%

40%

4000

3800

3600

3400

3200

3000

2800

2600

2400

2200

2000

1800

1600

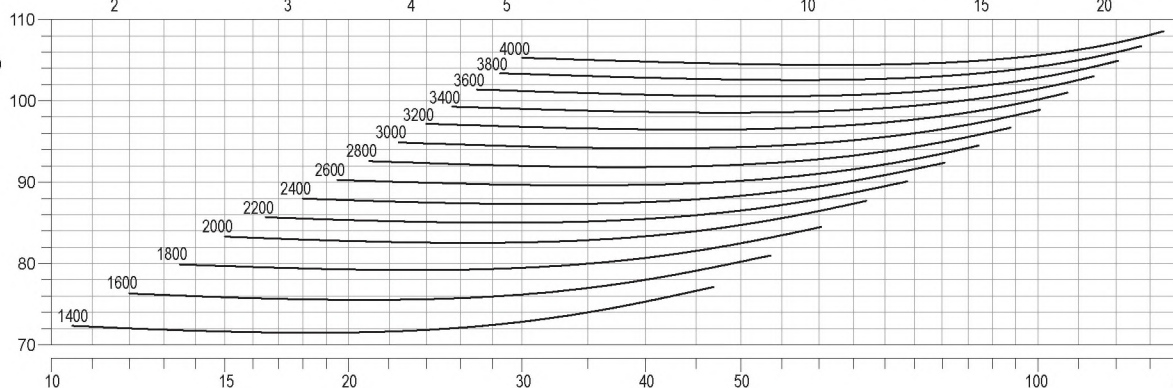
1400

Qx100[m³/h]

Pd [Pa]

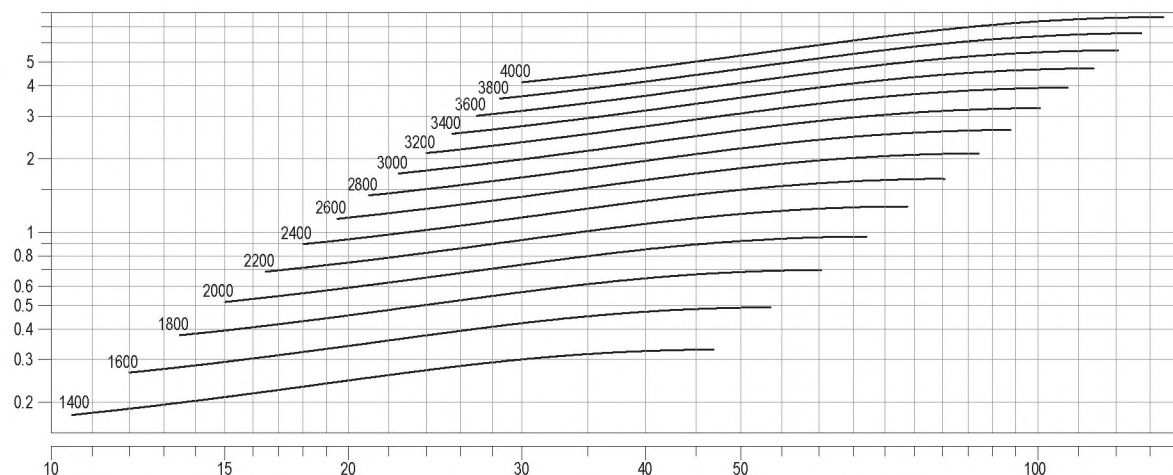
V [m/s]

LwA  
dB (A)



Qx100[m³/h]

Pw  
[kW]



Qx100[m³/h]

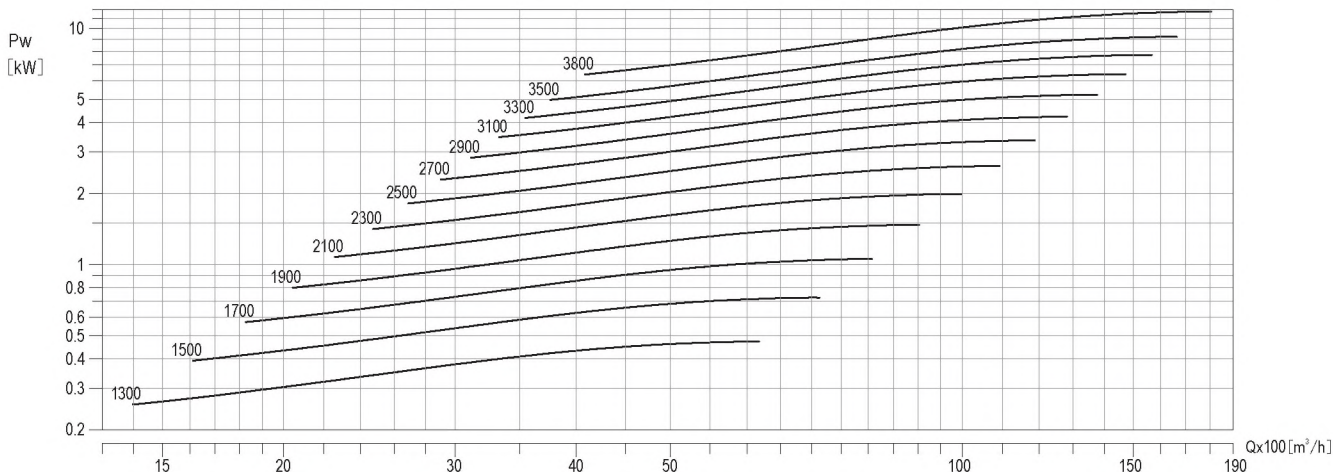
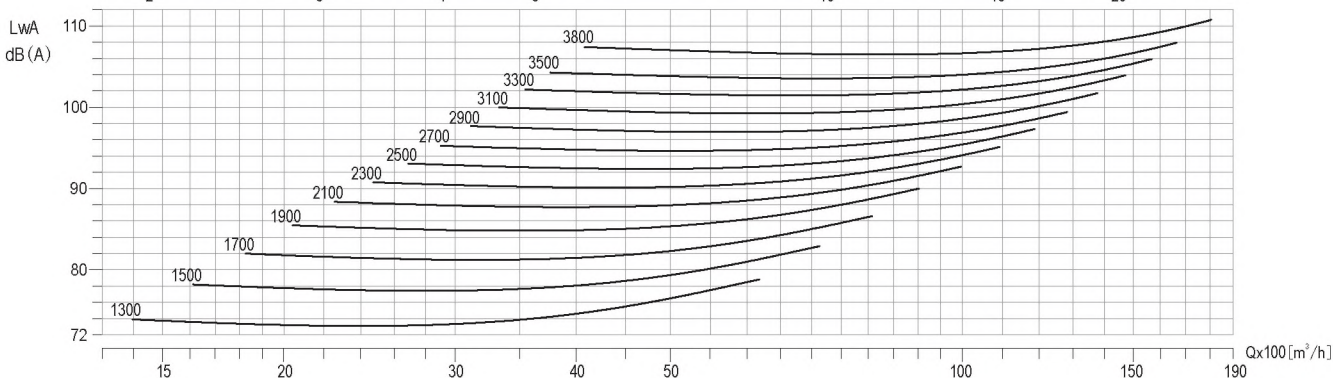
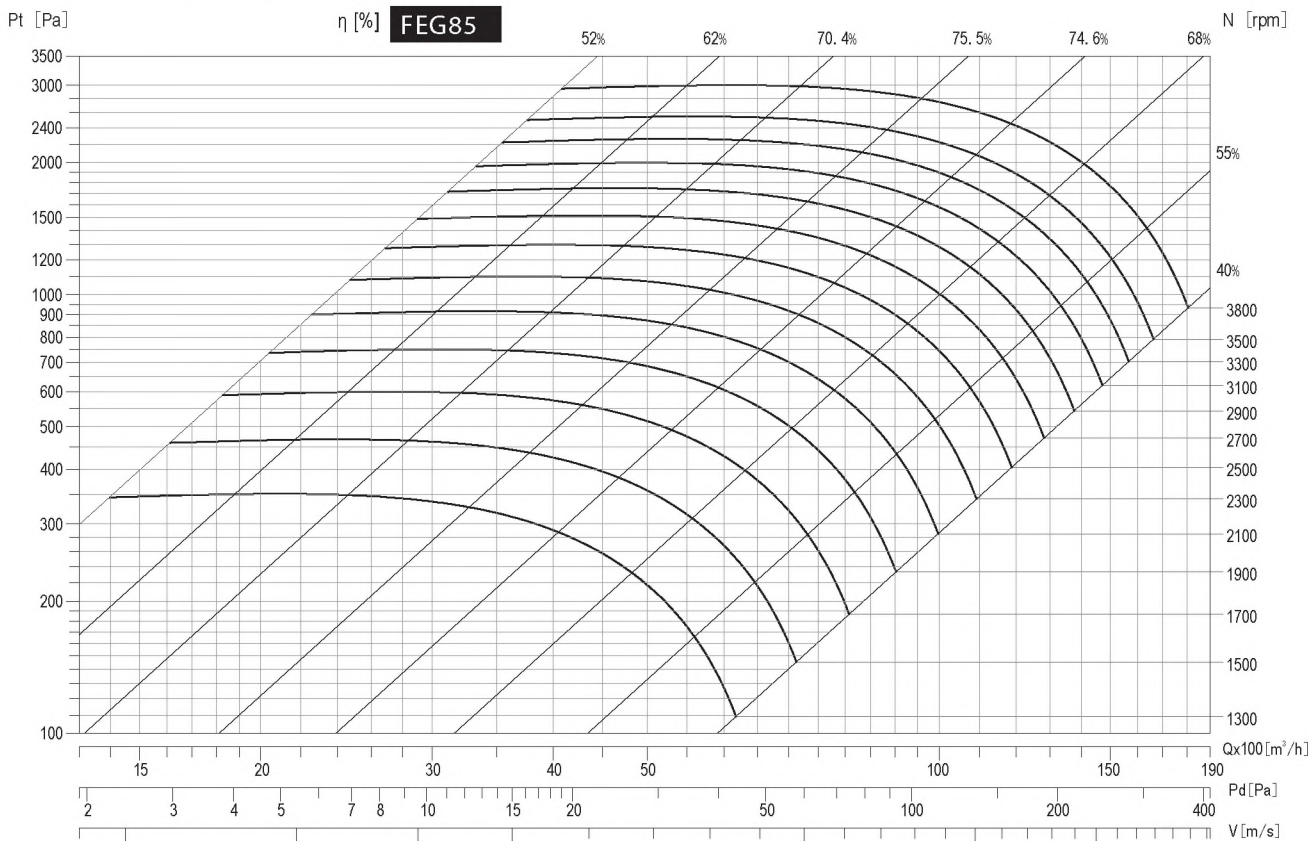
Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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

# TDF355

Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG85**

52%    62%    70.4%    75.5%    74.6%    68%



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

# TDF400

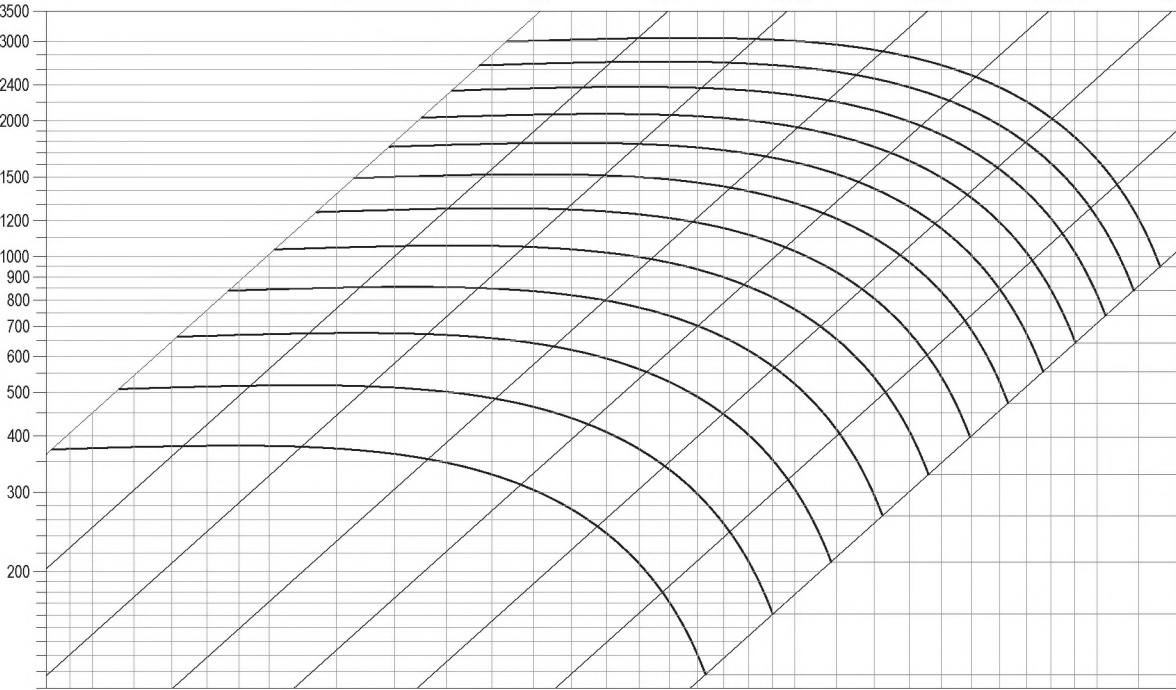
Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG85**

52%      62%      70.2%      75.5%      74.6%      68%

N [rpm]

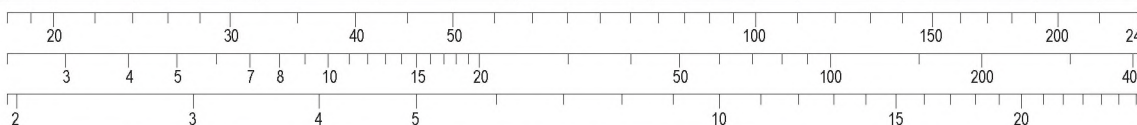
Pt [Pa]



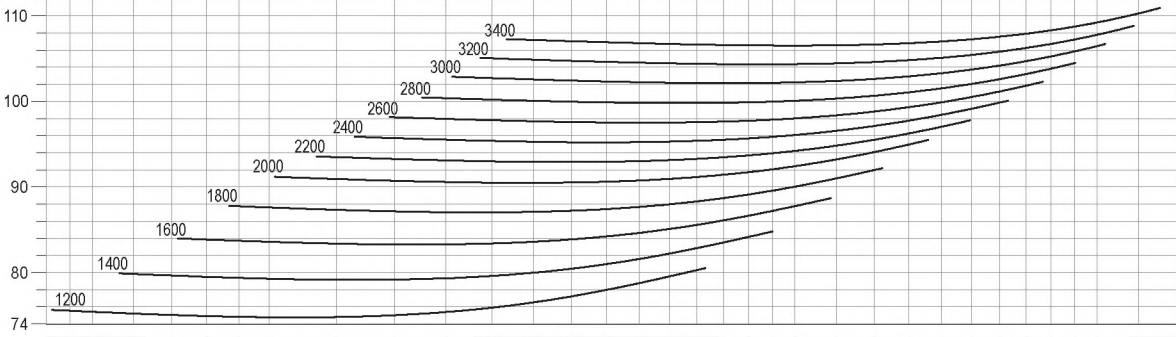
Qx100 [m<sup>3</sup>/h]

Pd [Pa]

V [m/s]

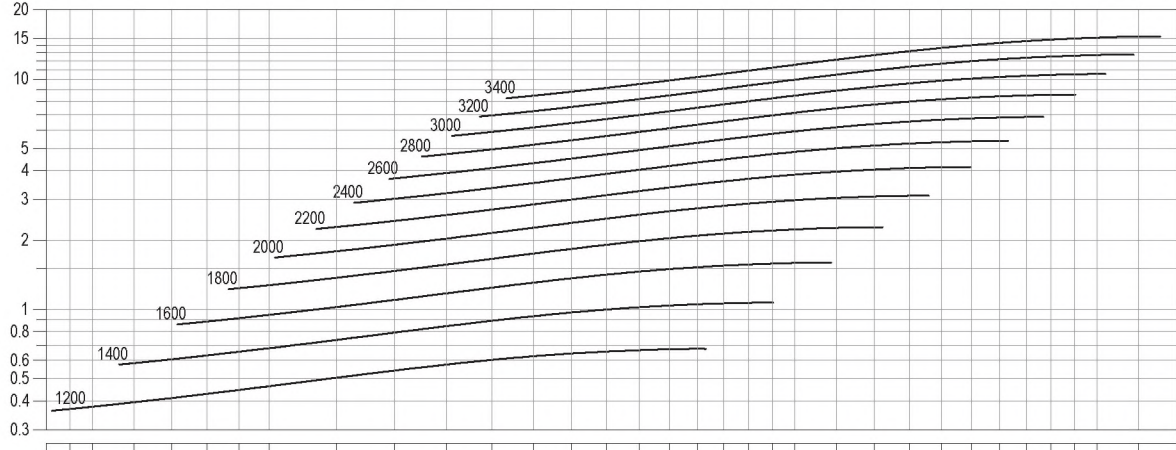


LwA [dB(A)]



Qx100 [m<sup>3</sup>/h]

Pw [kW]



Qx100 [m<sup>3</sup>/h]

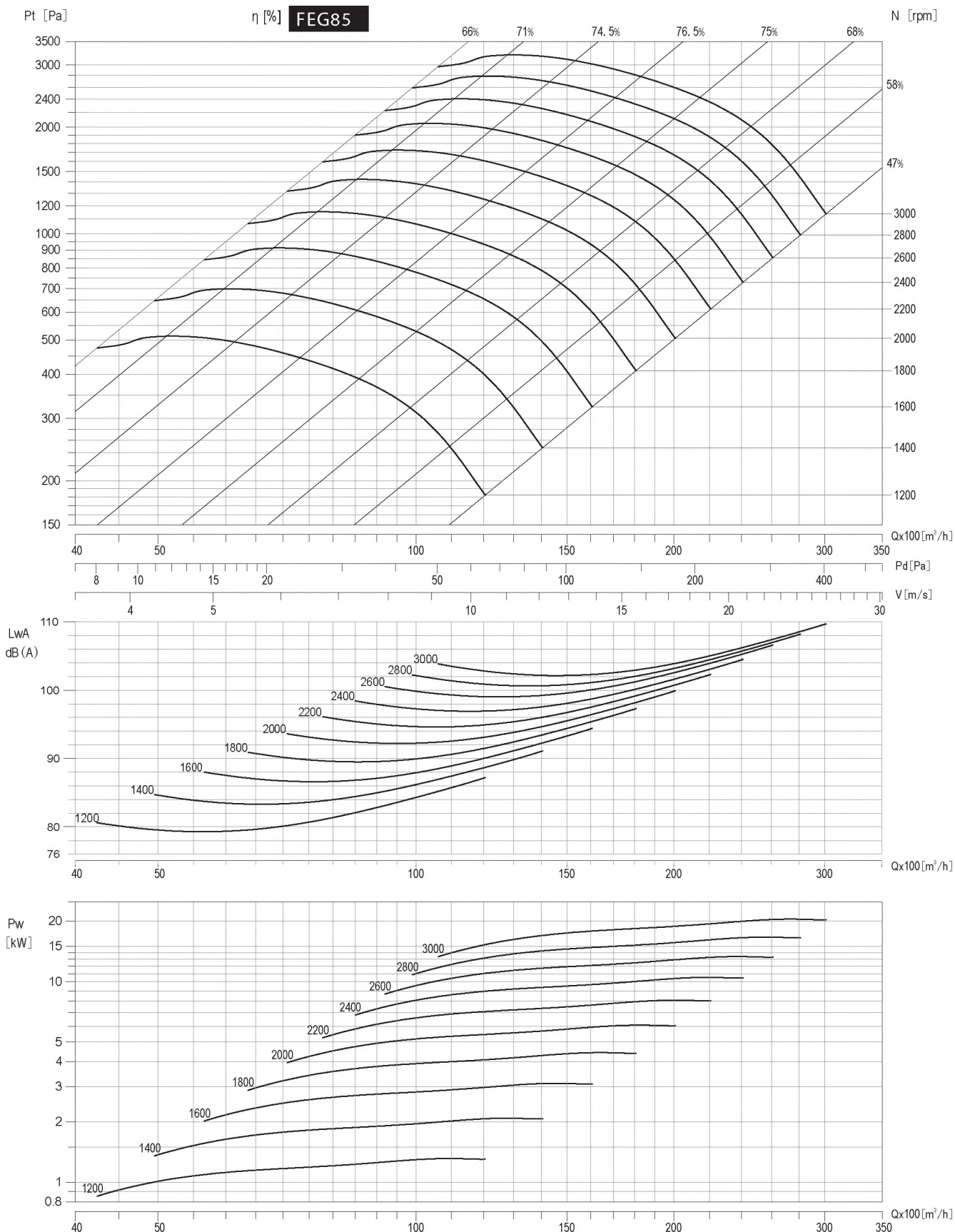
Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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



# TDF450

Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG85**

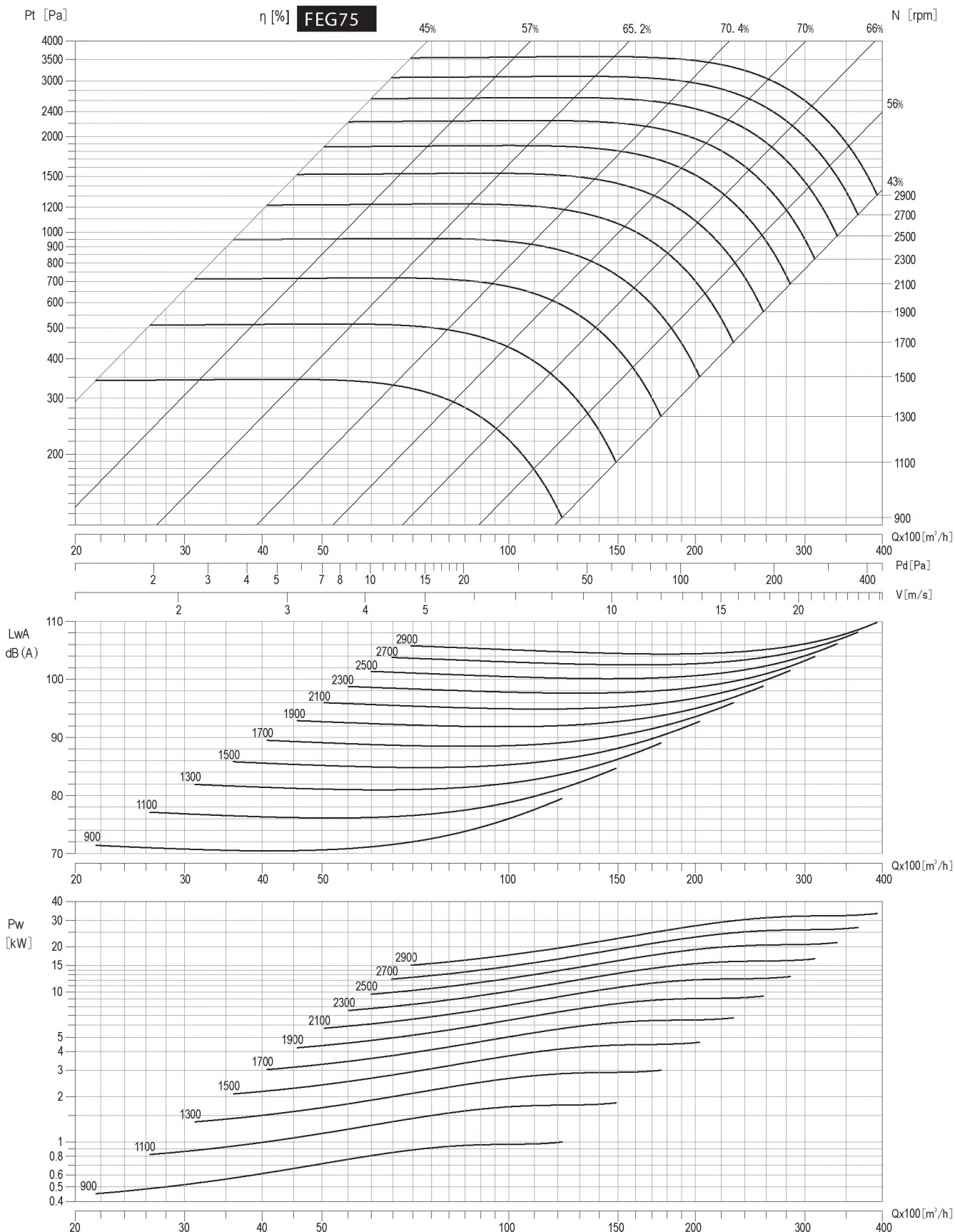


Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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

# TDF500

Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG75**

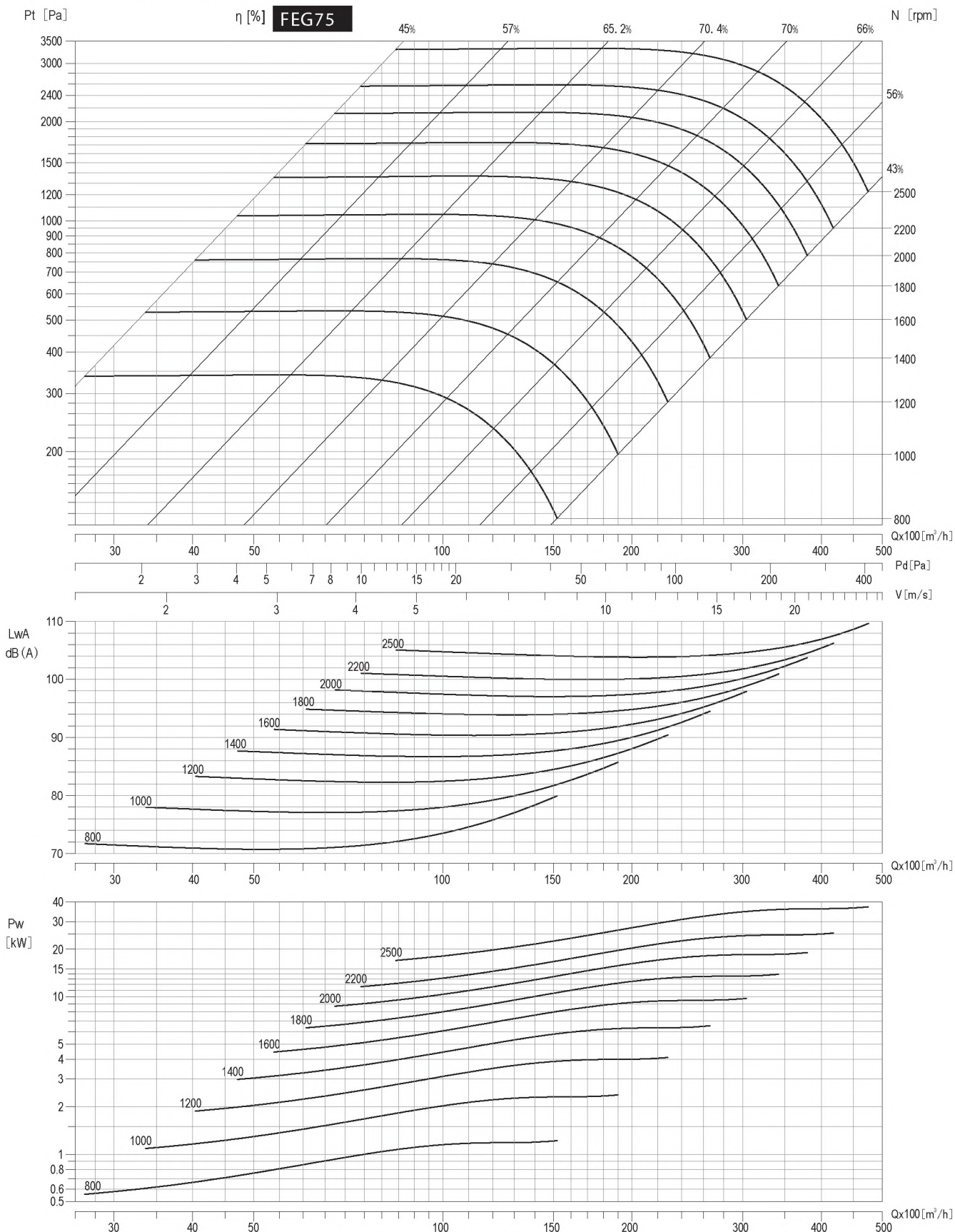


Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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

# TDF560

Air Density: 1.2 kg/m<sup>3</sup>

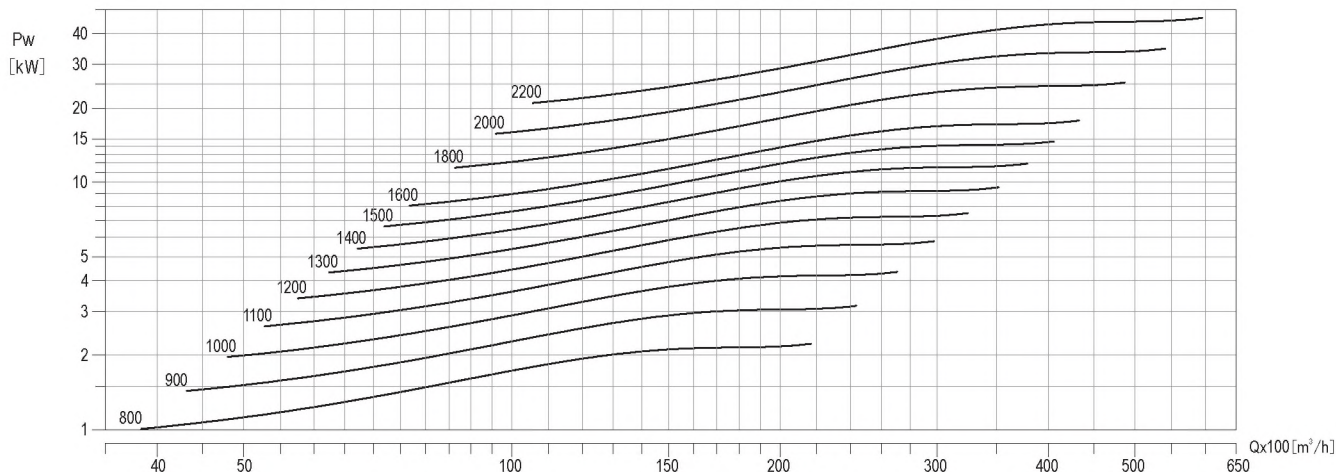
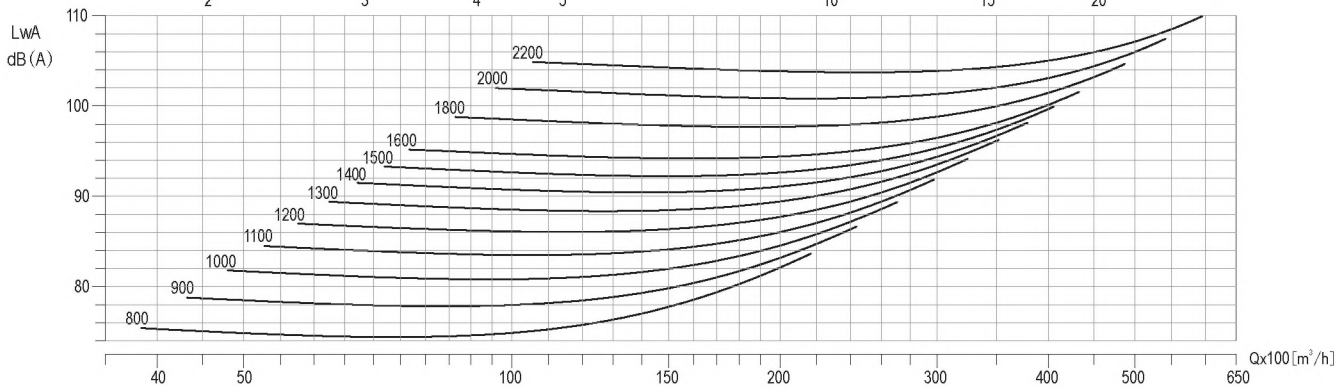
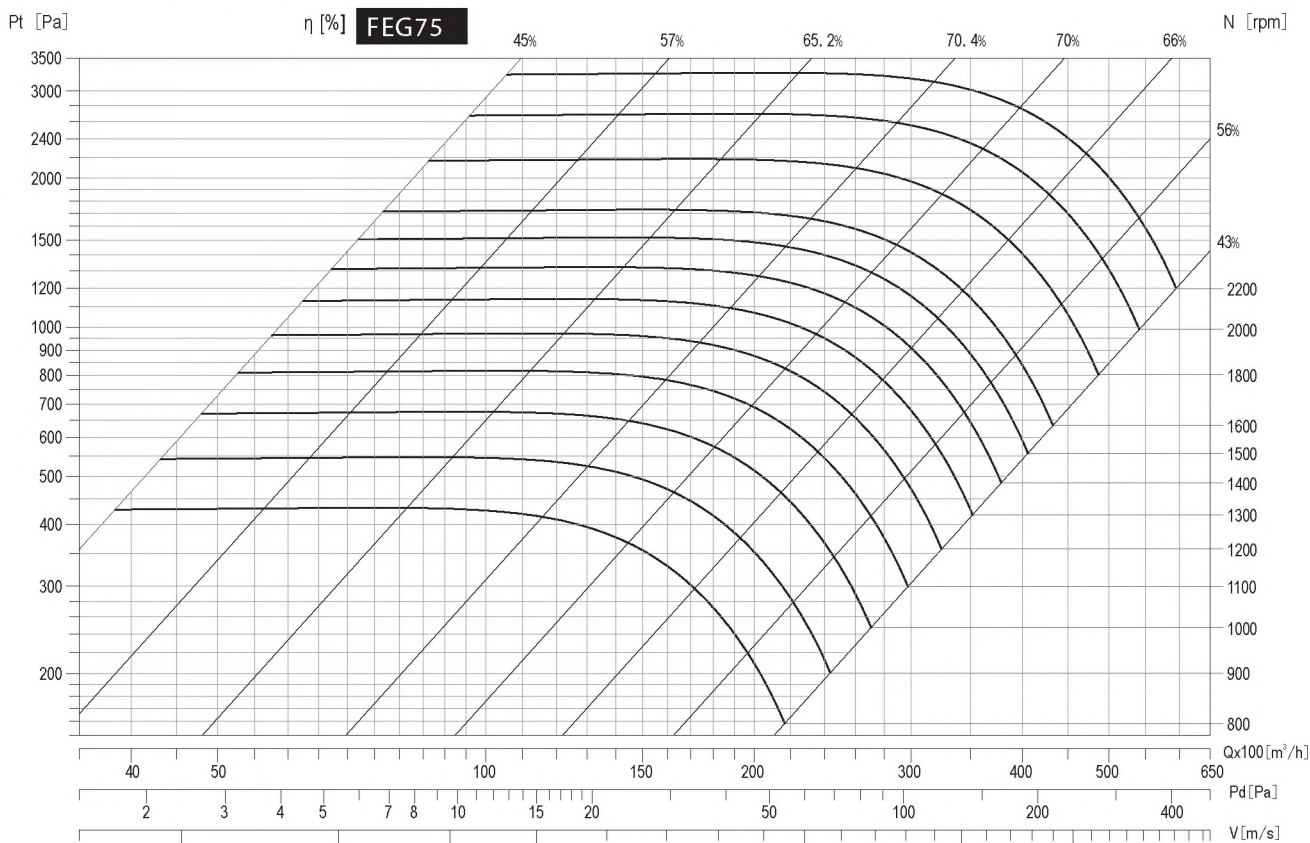
η [%] **FEG75**



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

# TDF630

Air Density: 1.2 kg/m<sup>3</sup>



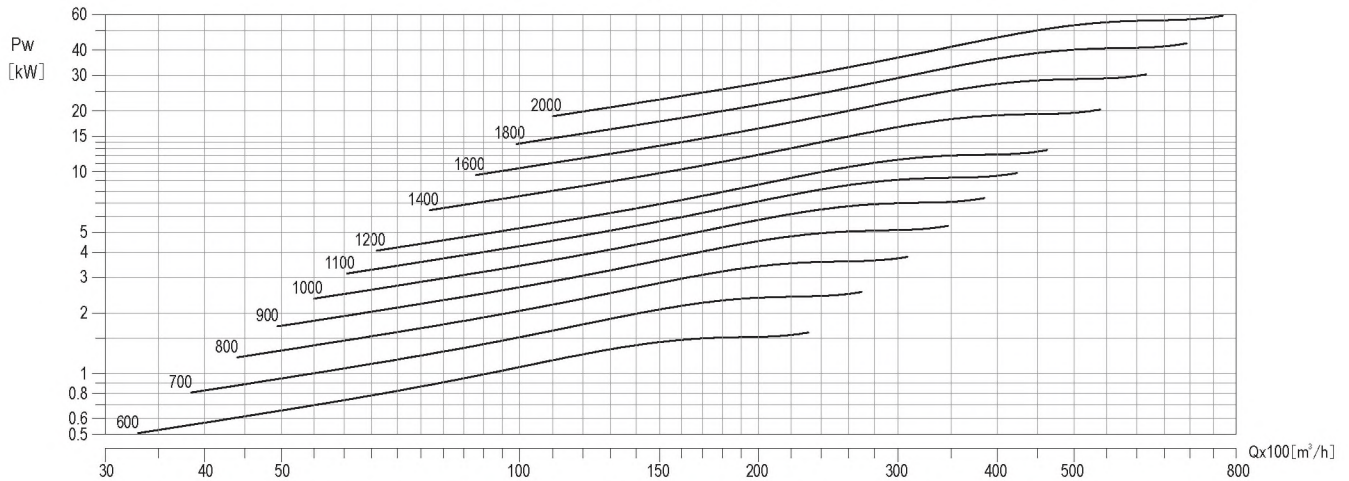
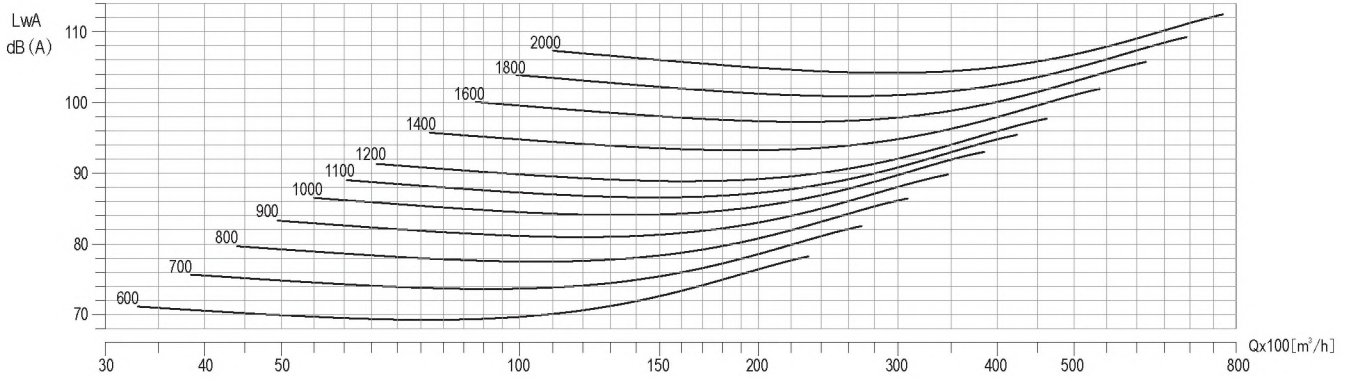
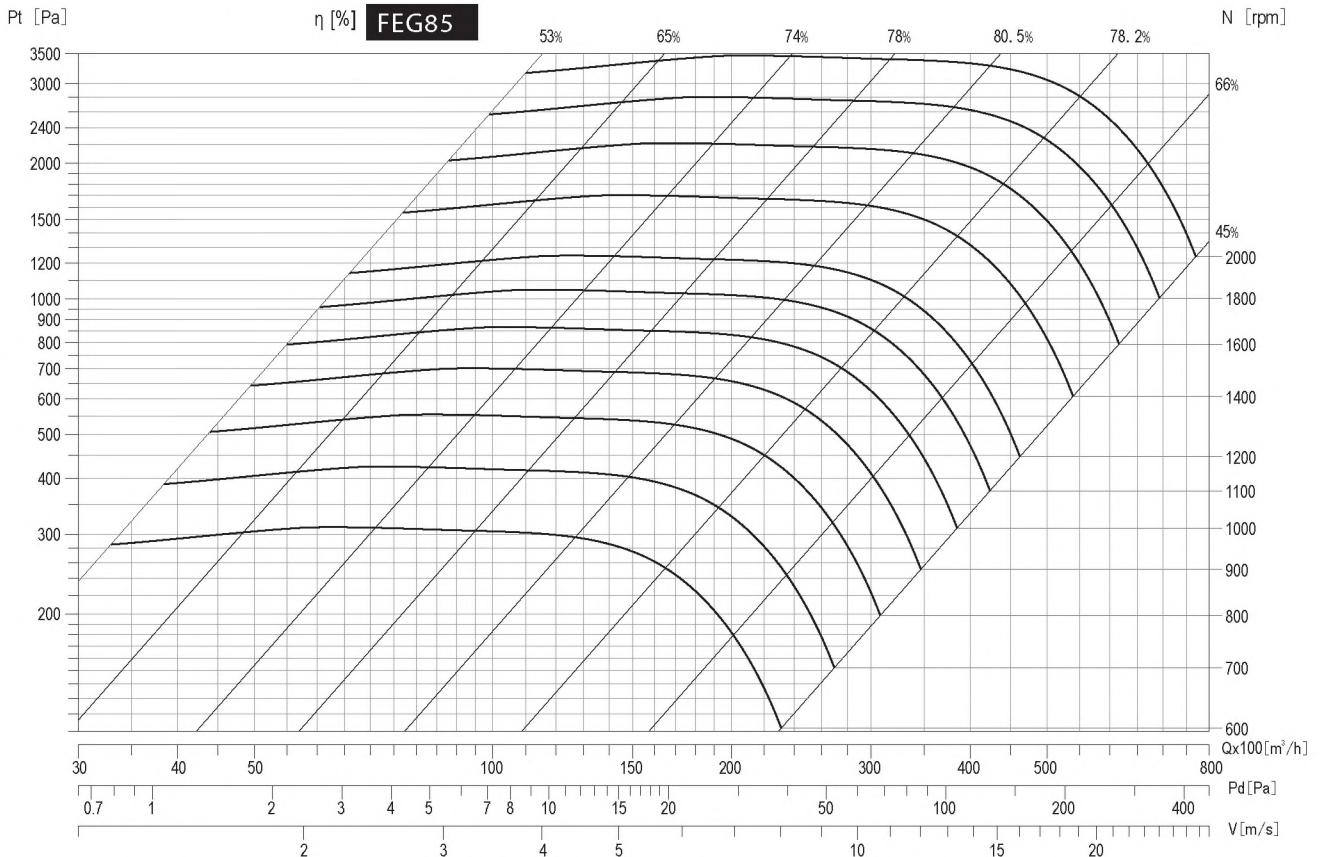
Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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

# TDF710

Air Density: 1.2 kg/m<sup>3</sup>

η [%] **FEG85**

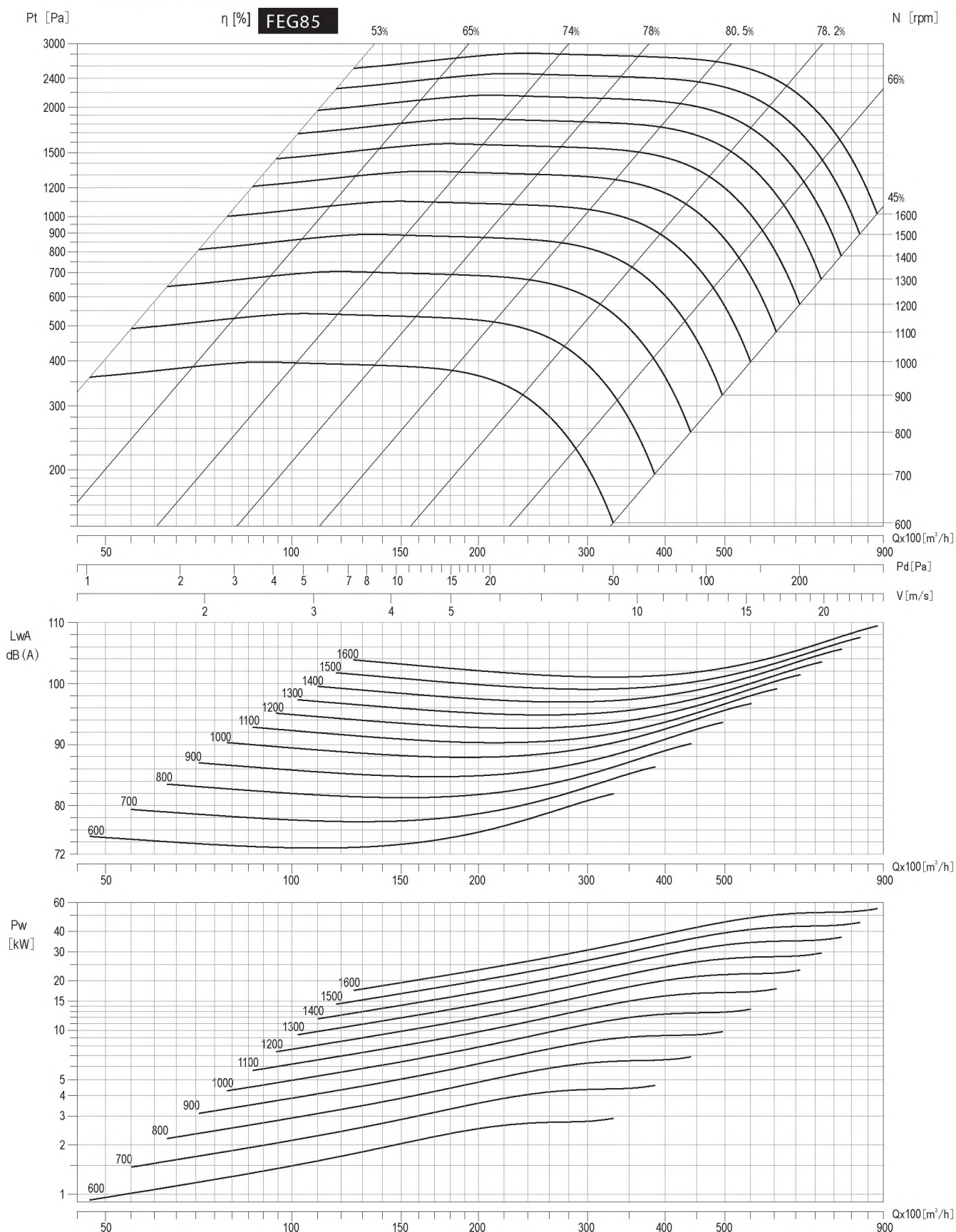
N [rpm]



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

# TDF800

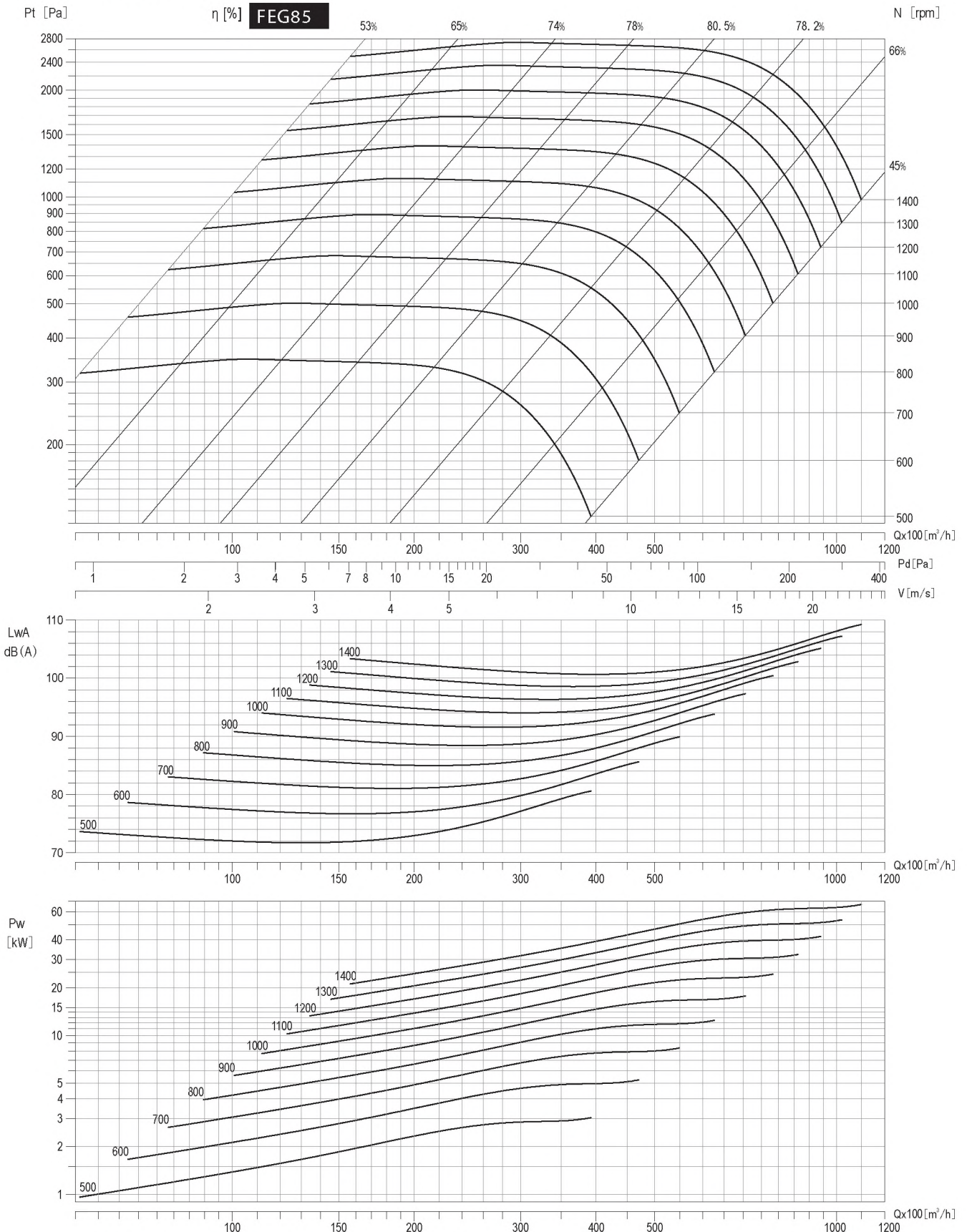
Air Density: 1.2 kg/m<sup>3</sup>



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

# TDF900

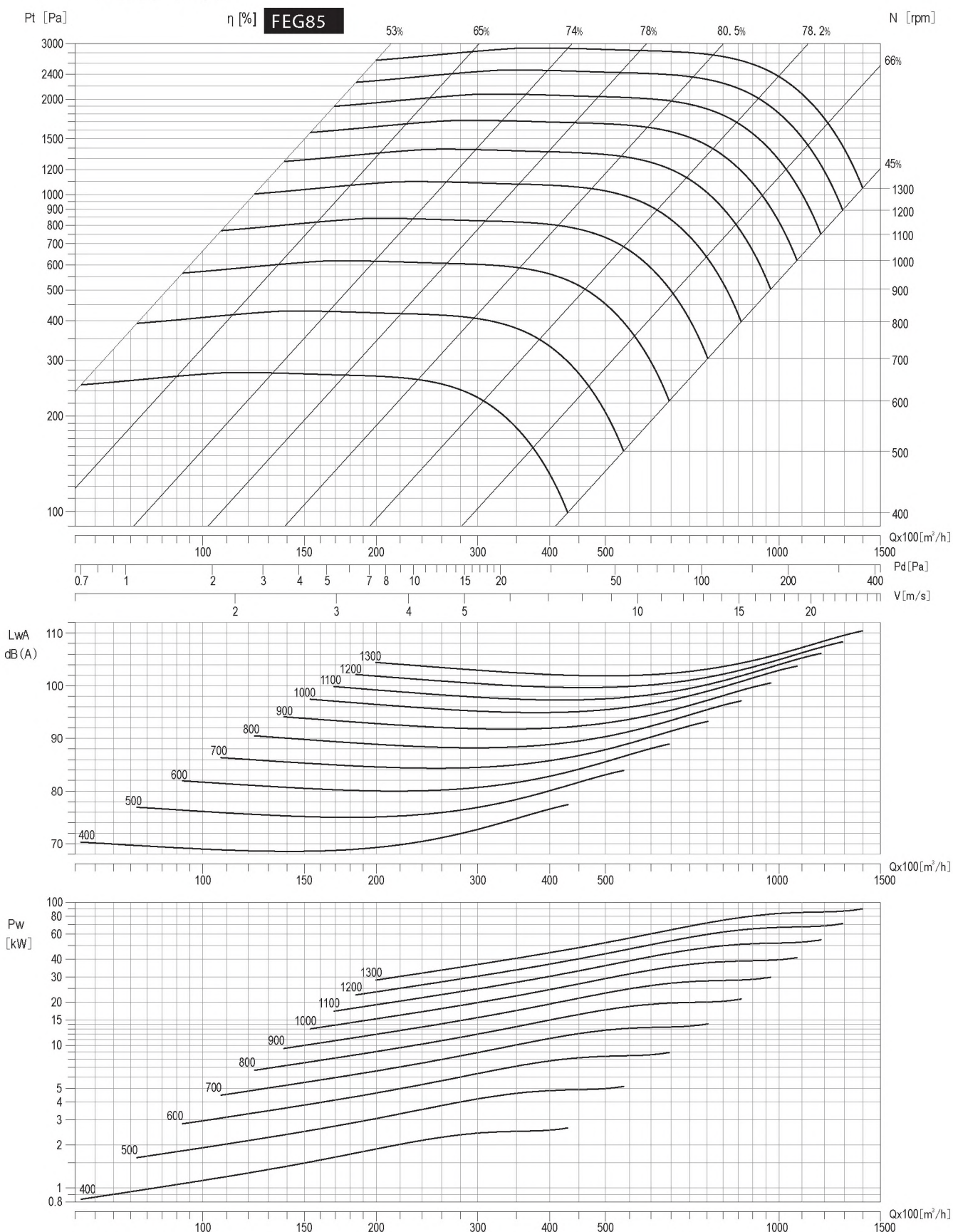
Air Density: 1.2 kg/m<sup>3</sup>



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

# TDF1000

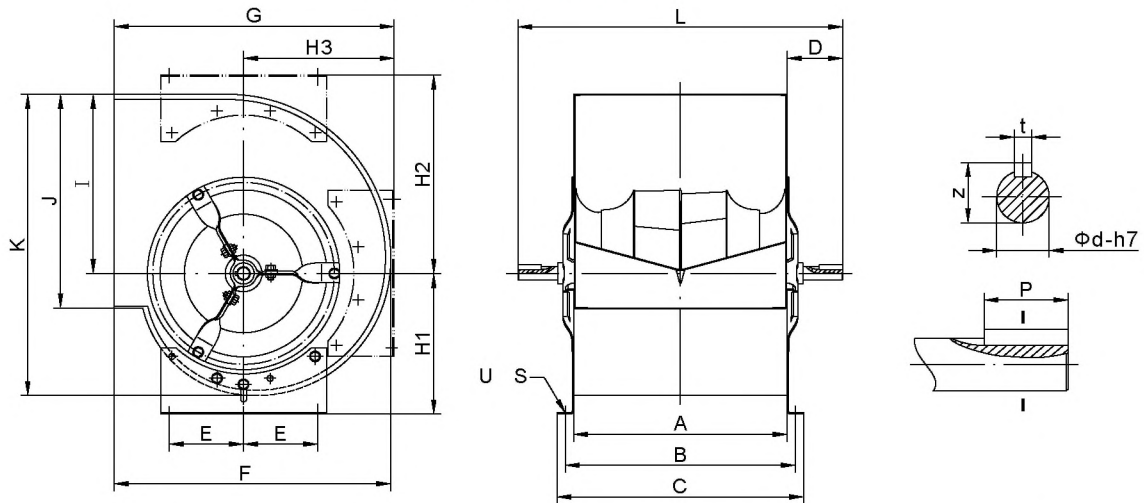
Air Density: 1.2 kg/m<sup>3</sup>



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



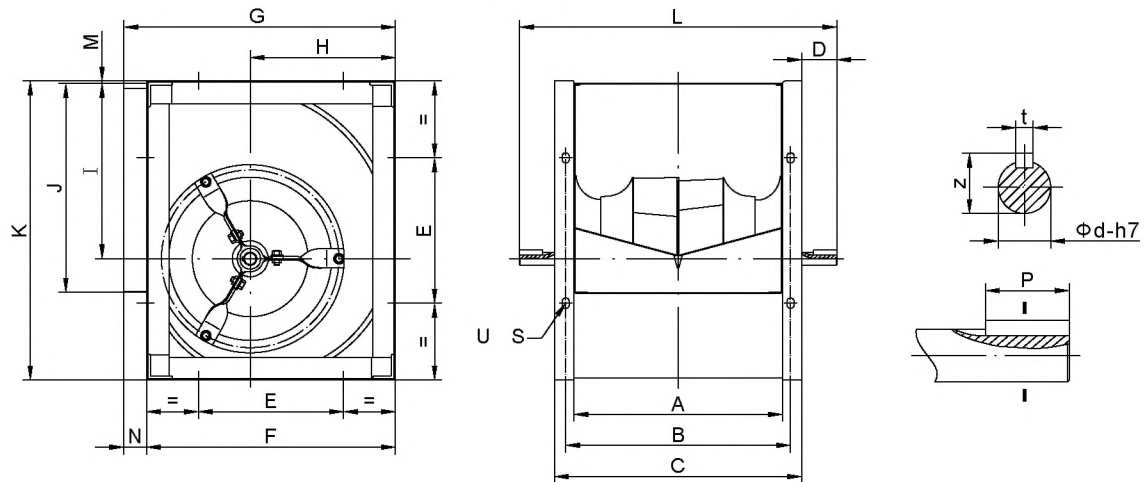
### TDF -D Dimension



[mm]

ModeI	A	B	C	D	E	F	G	H1	H2	H3	I	J	K	L	φd	t	z	P	UXS
TDF200	256	281	306	82	224	306	348	181	245	184	215	256	364	420	20	6	22.8	40	11X16
TDF225	288	313	338	86	224	348	384	197	274	204	243	288	408	460	20	6	22.8	40	11X16
TDF250	322	347	372	84	224	384	422	212	299	227	270	322	454	490	20	6	22.8	40	11X16
TDF280	361	391	421	90	280	432	470	236	331	255	302	361	510	540	25	8	28.3	40	11X16
TDF315	404	434	464	98	280	480	519	261	370	283	340	404	572	600	25	8	28.3	40	11X16
TDF355	452	492	532	110	315	548	580	274	411	320	383	452	644	672	30	8	33.3	40	11X16
TDF400	506	546	586	93	110	612	649	302	462	359	432	506	724	726	30	8	33.3	40	11X16
TDF450	568	608	648	115	123	681	729	336	518	407	486	568	816	814	35	10	38.3	50	13X18

### TDF -K Dimension

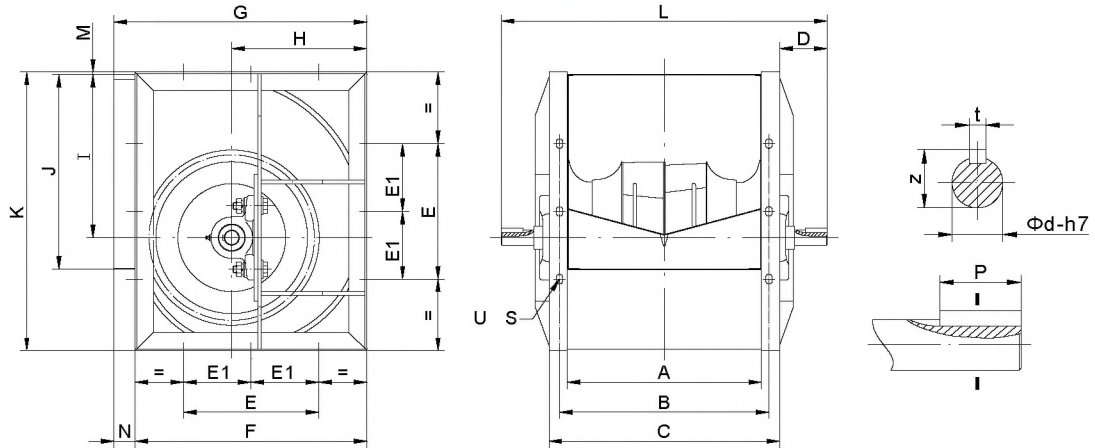


[mm]

ModeI	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	φd	t	z	P	UXS
TDF200	256	281	316	52	224	/	306	343	179	215	256	370	420	4	37	20	6	22.8	40	11X16
TDF225	288	313	348	56	224	/	348	383	203	243	288	415	460	3	35	20	6	22.8	40	11X16
TDF250	322	347	382	54	224	/	384	419	224	270	322	461	490	4	35	20	6	22.8	40	11X16
TDF280	361	391	421	60	280	/	432	466	251	302	361	518	540	5	34	25	8	28.3	40	11X16
TDF315	404	434	464	68	280	/	480	518	282	340	404	578	600	3	38	25	8	28.3	40	13X18
TDF355	452	492	532	70	315	/	548	578	318	383	452	654	672	6	30	30	8	33.3	40	13X18
TDF400	506	546	586	70	355	/	612	650	360	432	506	736	726	5	38	30	8	33.3	40	13X18
TDF450	568	608	648	83	400	/	681	726	404	486	568	827	814	5	45	35	10	38.3	50	13X18

Note: Overall dimension tolerance arange 4mm .

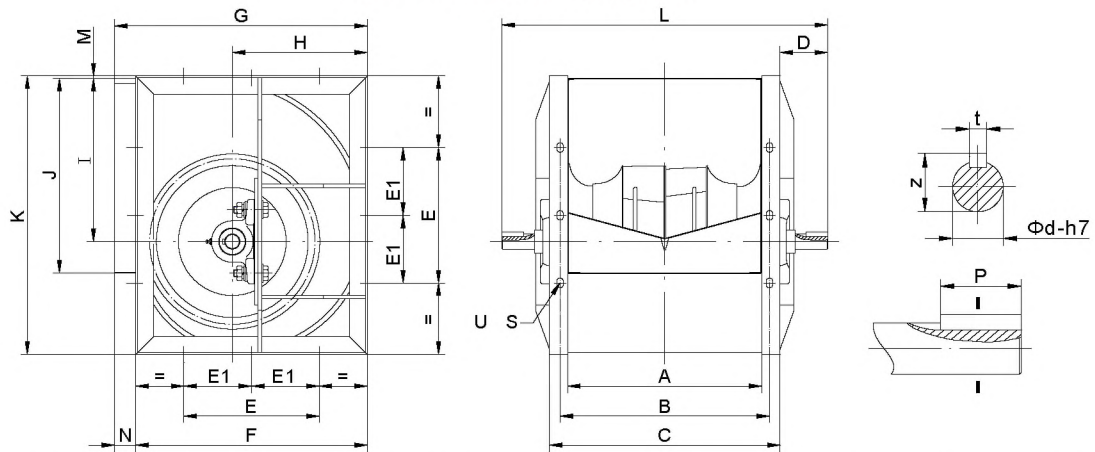
### TDF -HL Dimension



[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	ϕd	t	z	P	UXS
TDF200	256	281	316	77	224		306	343	179	215	256	370	470	4	37	20	6	22.5	40	11X16
TDF225	288	313	348	81	224		348	383	203	243	288	415	510	3	35	25	8	28.3	40	11X16
TDF250	322	347	382	79	224		384	419	224	270	322	461	540	4	35	25	8	28.3	40	11X16
TDF280	361	391	421	77	280		432	466	251	302	361	518	575	5	34	25	8	28.3	40	11X16
TDF315	404	434	464	84	280		480	518	282	340	404	578	632	3	38	25	8	28.3	40	13X18
TDF355	452	492	532	84	315		548	578	318	383	452	654	700	6	30	30	8	33.3	40	13X18
TDF400	506	546	586	87	355		612	650	360	432	506	736	760	5	38	30	8	33.3	40	13X18
TDF450	568	608	648	98.5	400		681	726	404	486	568	827	845	5	45	35	10	38.3	50	13X18
TDF500	638	678	718	98.5	450		750	800	448	538	638	918	915	5	50	35	10	38.3	50	13X18
TDF560	714	764	814	93		250	844	892	502	603	714	1030	1000	7	48	40	12	43.3	70	13X18
TDF630	800	850	900	95		280	945	998	564	679	800	1157	1090	6	53	45	14	48.5	70	13X18
TDF710	898	948	998	129		315	1057	1120	636	765	898	1302	1255	7	63	50	14	53.5	90	17X22
TDF800	1006	1056	1106	141		355	1180	1254	714	862	1006	1468	1388	7	74	55	16	59	90	17X22
TDF900	1130	1180	1256	155		400	1319	1408	804	971	1130	1648	1566	7	89	60	18	64	90	17X22

### TDF -HM Dimension

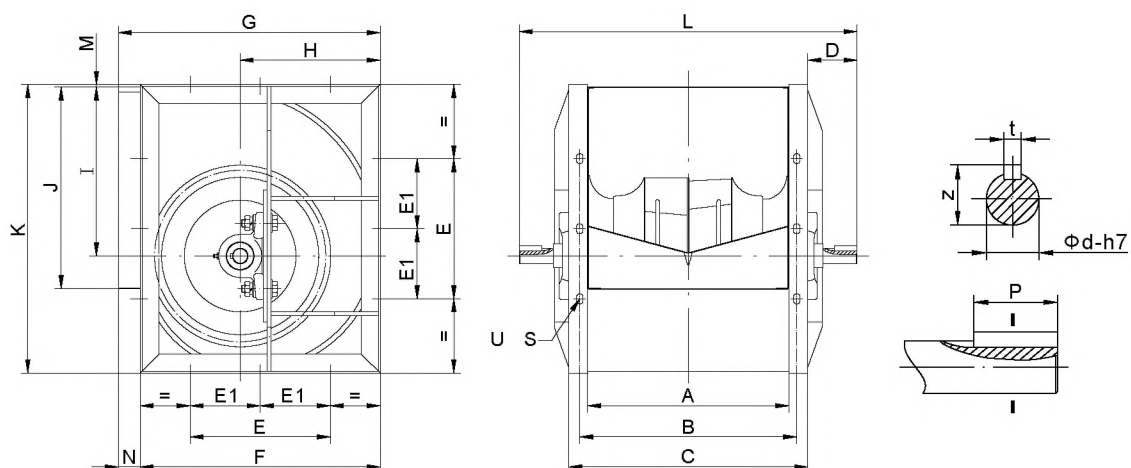


[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	ϕd	t	z	P	UXS
TDF200	256	281	316	77	224		306	343	179	215	256	370	470	4	37	20	6	22.8	40	11X16
TDF225	288	313	348	81	224		348	383	203	243	288	415	510	3	35	25	8	28.3	40	11X16
TDF250	322	347	382	79	224		384	419	224	270	322	461	540	4	35	25	8	28.3	40	11X16
TDF280	361	391	421	77	280		432	466	251	302	361	518	575	5	34	25	8	28.3	40	11X16
TDF315	404	434	464	84	280		480	518	282	340	404	578	632	3	38	30	10	33.3	50	13X18
TDF355	452	492	532	93	315		548	578	318	383	452	654	718	6	30	35	10	38.3	50	13X18
TDF400	506	546	586	93	355		612	650	360	432	506	736	772	5	38	35	10	38.3	50	13X18
TDF450	568	608	648	115	400		681	726	404	486	568	827	878	5	45	40	12	43.3	70	13X18
TDF500	638	678	718	119	450		750	800	448	538	638	918	956	5	50	40	12	43.3	70	13X18
TDF560	714	764	814	128		250	844	892	502	603	714	1030	1070	7	48	45	14	48.3	70	13X18
TDF630	800	850	900	127.5		280	945	998	564	679	800	1157	1155	6	53	50	14	53.8	90	13X18
TDF710	898	948	998	141		315	1057	1120	636	765	888	1302	1280	7	63	55	16	59	90	17X22
TDF800	1006	1056	1106	141		355	1180	1254	714	862	996	1468	1388	7	74	55	16	59	90	17X22
TDF900	1130	1180	1256	155		400	1319	1408	804	971	1120	1648	1566	7	89	60	18	64	100	17X22
TDF1000	1266	1316	1392	213		450	1450	1540	884	1066	1256	1810	1818	9	90	65	18	69	100	17X22

Note: Overall dimension tolerance arange 4mm .

### TDF -GM Dimension



[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	$\phi d$	t	z	P	UXS
TDF500	638	678	718	171	450	/	750	800	448	538	638	918	1060	5	50	40	12	43.3	70	13X18
TDF560	714	764	814	173	/	250	844	892	502	603	714	1030	1160	7	48	50	14	53.8	70	13X18
TDF630	800	850	900	200	/	280	945	998	564	679	800	1157	1300	6	53	50	14	53.8	90	13X18
TDF710	898	948	998	217	/	315	1057	1120	636	765	888	1302	1432	7	63	60	18	64	90	17X22
TDF800	1006	1056	1106	217	/	355	1180	1254	714	862	996	1468	1540	7	74	60	18	64	90	17X22
TDF900	1130	1180	1256	208	/	400	1319	1408	804	971	1120	1648	1672	7	89	65	18	69	100	17X22
TDF1000	1266	1316	1392	213	/	450	1450	1540	884	1066	1256	1810	1818	9	90	65	18	69	100	17X22

Note: Overall dimension tolerance arange 4mm .

### TDF - D Overall dimension

		0°					90°					180°				
RD																
LG																
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	71	495	840	630	642	33	412	900	630	559	33	448	840	630	641	33
	80	506	880	630	642	33	425	940	630	559	33	462	880	630	641	33
	90	519	920	630	642	33	439	980	630	559	33	478	920	630	641	33
	100	532	960	630	642	33	455	1020	630	559	33	495	960	630	641	33
	112	549	1020	630	642	33	474	1080	630	559	34	516	1020	630	641	33
	132	579	1100	630	642	34	508	1160	630	559	34	551	1100	630	641	34
355	71	548	900	702	712	44	454	960	702	620	45	486	900	702	697	44
	80	558	940	702	712	44	466	1000	702	620	45	500	940	702	697	44
	90	570	980	702	712	45	480	1060	702	620	45	516	980	702	697	45
	100	583	1020	702	712	45	495	1100	702	620	45	533	1020	702	697	45
	112	599	1080	702	712	45	513	1140	702	620	45	554	1080	702	697	45
	132	627	1180	702	712	46	545	1250	702	620	46	589	1180	702	697	46
400	71	608	960	756	794	50	500	1050	756	689	50	532	960	756	774	50
	80	617	1000	756	794	50	511	1080	756	689	50	545	1000	756	794	50
	90	629	1040	756	794	50	525	1150	756	689	51	561	1040	756	774	50
	100	641	1100	756	794	51	539	1180	756	689	51	577	1100	756	774	51
	112	656	1140	756	794	51	556	1250	756	689	51	597	1140	756	774	51
	132	683	1250	756	794	51	587	1300	756	689	52	632	1250	756	774	51
	160	723	1350	756	794	52	632	1450	756	689	52	682	1350	756	774	52

### TDF - K Overall dimension

		0°					90°					180°				
RD																
LG																
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	71	483	840	630	618	34	414	900	630	558	34	442	840	630	618	34
	80	495	880	630	618	34	427	940	630	558	34	457	880	630	618	34
	90	509	920	630	618	34	442	980	630	558	34	474	920	630	618	34
	100	523	960	630	618	34	458	1020	630	558	34	491	960	630	618	34
	112	541	1020	630	618	34	477	1080	630	558	35	513	1020	630	618	34
	132	572	1120	630	618	35	511	1180	630	558	35	550	1120	630	618	35
355	71	537	900	702	694	48	457	980	702	618	49	485	900	702	694	48
	80	548	940	702	694	48	469	1020	702	618	49	500	940	702	694	48
	90	561	980	702	694	49	483	1060	702	618	49	516	980	702	694	49
	100	575	1020	702	694	49	498	1100	702	618	49	533	1020	702	694	49
	112	592	1080	702	694	49	516	1160	702	618	50	554	1080	702	694	49
	132	621	1180	702	694	50	549	1250	702	618	50	589	1180	702	694	50
400	71	599	980	756	776	53	506	1060	756	690	53	536	980	756	776	53
	80	609	1020	756	776	53	518	1100	756	690	54	550	1020	756	776	53
	90	621	1060	756	776	53	531	1140	756	690	54	566	1060	756	776	53
	100	634	1100	756	776	54	545	1180	756	690	54	582	1100	756	776	54
	112	650	1160	756	776	54	563	1250	756	690	54	602	1160	756	776	54
	132	678	1250	756	776	54	594	1350	756	690	55	637	1250	756	776	54
	160	720	1350	756	776	55	639	1450	756	690	55	687	1350	756	776	55

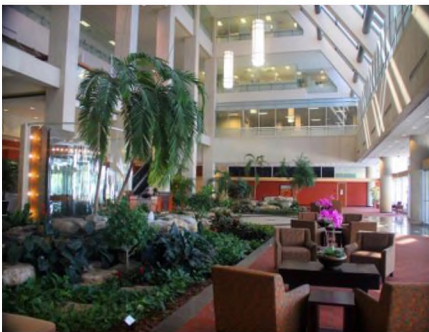
### TDF - H Overall dimension

		0°					90°					180°				
RD																
LG																
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	100	523	960	662	618	47	458	1020	662	558	47	491	960	662	618	47
	112	541	1020	662	618	47	477	1080	662	558	48	513	1020	662	618	47
	132	572	1100	662	618	48	511	1180	662	558	48	550	1100	662	618	48
	160	619	1250	662	618	49	561	1300	662	558	49	603	1250	662	618	49
355	100	575	1020	748	694	61	498	1100	748	618	61	533	1020	748	694	61
	112	592	1080	748	694	61	516	1150	748	618	61	554	1080	748	694	61
	132	621	1180	748	694	62	549	1250	748	618	62	589	1180	748	694	62
	160	665	1300	748	694	62	597	1400	748	618	63	641	1300	748	694	62
400	112	650	1160	802	776	76	563	1250	802	690	76	602	1160	802	776	76
	132	678	1250	802	776	76	594	1350	802	690	77	637	1250	802	776	76
	160	720	1350	802	776	77	639	1450	802	690	77	687	1350	802	776	77
	180	752	1450	802	776	77	674	1550	802	690	78	724	1450	802	776	77
450	112	714	1250	908	867	99	614	1350	908	766	99	654	1250	908	867	99
	132	740	1300	908	867	99	643	1400	908	766	99	688	1300	908	867	99
	160	780	1450	908	867	100	687	1550	908	766	100	737	1450	908	867	100
	180	811	1550	908	867	100	720	1650	908	766	101	773	1550	908	867	100
500	132	798	1400	986	968	135	692	1500	986	850	136	738	1400	986	968	135
	160	837	1500	986	968	136	735	1650	986	850	137	786	1500	986	968	136
	180	867	1600	986	968	136	767	1750	986	850	137	821	1600	986	968	136
	200	897	1700	986	968	137	800	1800	986	850	138	857	1700	986	968	137
560	132	877	1500	1110	1080	176	755	1600	1110	942	177	802	1500	1110	1080	176
	160	914	1600	1110	1080	177	796	1750	1110	942	178	848	1600	1110	1080	177
	180	942	1700	1110	1080	178	826	1850	1110	942	179	883	1700	1110	1080	178
	200	971	1800	1110	1080	179	858	1950	1110	942	180	918	1800	1110	1080	179
630	160	1004	1700	1196	1207	218	868	1850	1196	1048	219	922	1700	1196	1207	218
	180	1030	1800	1196	1207	218	897	1950	1196	1048	219	955	1800	1196	1207	218
	200	1058	1900	1196	1207	219	927	2050	1196	1048	220	989	1900	1196	1207	219
	225	1094	2000	1196	1207	220	966	2150	1196	1048	221	1033	2000	1196	1207	220
710	160	1094	1850	1310	1382	286	938	2000	1310	1200	288	999	1850	1310	1382	286
	180	1120	1950	1310	1382	287	966	2100	1310	1200	289	1032	1950	1310	1382	287
	200	1147	2000	1310	1382	288	996	2200	1310	1200	290	1066	2000	1310	1382	288
	225	1182	2150	1310	1382	290	1034	2300	1310	1200	291	1109	2150	1310	1382	290
800	90	1135	1650	1418	1548	333	950	1850	1418	1334	335	992	1650	1418	1548	333
	100	1145	1700	1418	1548	333	961	1900	1418	1334	336	1005	1700	1418	1548	333
	112	1157	1750	1418	1548	334	975	1950	1418	1334	337	1022	1750	1418	1548	334
	132	1178	1850	1418	1548	335	998	2050	1418	1334	338	1052	1850	1418	1548	335
	160	1210	1950	1418	1548	337	1034	2200	1418	1334	340	1095	1950	1418	1548	337
	180	1235	2050	1418	1548	338	1061	2300	1418	1334	341	1126	2050	1418	1548	338
	200	1260	2150	1418	1548	339	1089	2350	1418	1334	341	1159	2150	1418	1548	339
	225	1293	2250	1418	1548	340	1126	2500	1418	1334	343	1201	2250	1418	1548	340
900	100	1283	1850	1596	1728	406	1071	2100	1596	1488	409	1117	1850	1596	1728	406
	112	1294	1900	1596	1728	406	1083	2150	1596	1488	409	1134	1900	1596	1728	406
	132	1314	2000	1596	1728	408	1106	2250	1596	1488	411	1162	2000	1596	1728	408
	160	1345	2150	1596	1728	409	1139	2350	1596	1488	412	1203	2150	1596	1728	409
	180	1368	2200	1596	1728	410	1165	2450	1596	1488	413	1234	2200	1596	1728	410
	200	1392	2300	1596	1728	411	1191	2550	1596	1488	414	1266	2300	1596	1728	411
	225	1423	2400	1596	1728	413	1226	2650	1596	1488	416	1306	2400	1596	1728	413
	250	1456	2550	1596	1728	414	1262	2750	1596	1488	417	1348	2550	1596	1728	414

## TDF - G Overall dimension

		0°					90°					180°				
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	132	572	1120	762	618	57	511	1180	762	558	57	550	1120	762	618	57
	160	619	1250	762	618	58	561	1300	762	558	58	603	1250	762	618	58
	180	654	1350	762	618	58	598	1400	762	558	58	642	1350	762	618	58
	200	690	1400	762	618	58	636	1500	762	558	59	682	1400	762	618	58
355	132	621	1180	852	694	74	549	1250	852	618	74	589	1180	852	694	74
	160	665	1300	852	694	74	597	1350	852	618	75	641	1300	852	694	74
	180	699	1400	852	694	75	633	1450	852	618	75	679	1400	852	694	74
400	200	733	1500	852	694	75	670	1550	852	618	76	718	1500	852	694	75
	160	720	1350	906	776	92	639	1450	906	690	92	687	1350	906	776	92
	180	752	1450	906	776	92	674	1550	906	690	93	724	1450	906	776	92
	200	785	1550	906	776	93	709	1650	906	690	93	762	1550	906	776	93
450	225	828	1650	906	776	93	755	1750	906	690	94	811	1650	906	776	93
	160	780	1450	976	867	105	687	1550	976	766	105	737	1450	976	867	105
	180	811	1550	976	867	105	720	1650	976	766	106	773	1550	976	867	105
	200	842	1650	976	867	106	754	1750	976	766	106	810	1650	976	867	106
500	225	883	1750	976	867	106	798	1850	976	766	107	857	1750	976	867	106
	180	867	1600	1096	968	142	767	1750	1096	850	143	821	1600	1096	968	142
	200	897	1700	1096	968	143	800	1800	1096	850	144	857	1700	1096	968	143
	250	937	1800	1096	968	144	843	1950	1096	850	145	904	1800	1096	968	144
560	250	979	1900	1096	968	145	887	2050	1096	850	143	951	1900	1096	968	145
	180	942	1700	1168	1080	186	826	1850	1168	942	187	883	1700	1168	1080	186
	200	971	1800	1168	1080	187	858	1950	1168	942	188	918	1800	1168	1080	187
	225	1009	1900	1168	1080	187	899	2050	1168	942	189	963	1900	1168	1080	187
630	250	1049	2000	1168	1080	188	942	2150	1168	942	189	1009	2000	1168	1080	188
	200	1058	1900	1316	1207	234	927	2050	1316	1048	235	989	1900	1316	1207	234
	225	1094	2000	1316	1207	235	966	2150	1316	1048	236	1033	2000	1316	1207	235
	250	1132	2100	1316	1207	236	1007	2300	1316	1048	237	1078	2100	1316	1207	236
710	280	1179	2250	1316	1207	237	1058	2400	1316	1048	238	1133	2250	1316	1207	237
	200	1147	2000	1420	1382	308	996	2200	1420	1200	310	1066	2000	1420	1382	308
	225	1182	2150	1420	1382	310	1034	2300	1420	1200	311	1109	2150	1420	1382	310
	250	1219	2250	1420	1382	311	1074	2450	1420	1200	313	1153	2250	1420	1382	311
800	280	11265	2400	1420	1382	313	1124	2550	1420	1200	315	1208	2400	1420	1382	313
	160	1210	2000	1528	1548	361	1034	2200	1528	1334	364	1095	2000	1528	1548	361
	180	1235	2050	1528	1548	362	1061	2300	1528	1334	365	1126	2050	1528	1548	362
	200	1260	2150	1528	1548	363	1089	2350	1528	1334	365	1159	2150	1528	1548	363
	225	1293	2250	1528	1548	364	1126	2500	1528	1334	367	1201	2250	1528	1548	364
	250	1328	2400	1528	1548	366	1164	2600	1528	1334	368	1243	2400	1528	1548	366
900	280	1372	2500	1528	1548	367	1212	2750	1528	1334	370	1296	2500	1528	1548	367
	180	1368	2200	1690	1728	439	1165	2450	1690	1488	442	1234	2200	1690	1728	439
	200	1392	2300	1690	1728	440	1191	2550	1690	1488	443	1266	2300	1690	1728	440
	225	1423	2400	1690	1728	442	1226	2650	1690	1488	445	1306	2400	1690	1728	442
	250	1456	2550	1690	1728	443	1262	2750	1690	1488	446	1348	2550	1690	1728	443
	280	1497	2650	1690	1728	445	1308	2900	1690	1488	448	1399	2650	1690	1728	445
1000	315	1548	2850	1690	1728	447	1363	3050	1690	1488	450	1460	2850	1690	1728	447
	200	1510	2450	1875	1890	559	1286	2700	1875	1620	562	1362	2450	1875	1890	559
	225	1540	2550	1875	1890	560	1319	2800	1875	1620	563	1402	2550	1875	1890	560
	250	1572	2650	1875	1890	561	1354	2950	1875	1620	565	1442	2650	1875	1890	561
	280	1611	2800	1875	1890	563	1397	3050	1875	1620	565	1492	2800	1875	1890	563
315	1660	3000	1875	1890	566	1450	3250	1875	1620	569	1553	3000	1875	1890	566	

## TBF Series



## DWDI, Airfoil Backward Curved CENTRIFUGAL FAN

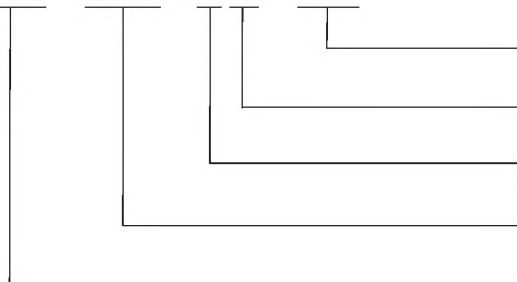


GTG Industries Sdn Bhd certifies that the TBF series for model TBF 315 to TBF 1000 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## Designation of Products

**TBF - 355 - HM - LG**



rotation direction

Bearing type

H type

diameter of impeller

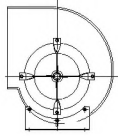
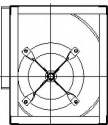
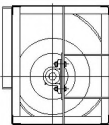
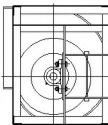
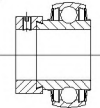
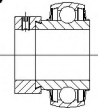
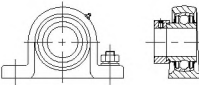
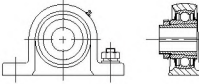
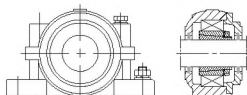
model of fan

## Technical specification

- Wheel: airfoil backward blade.made of high grade steel sheet, it is to provide a highly efficient and low noise and special-designed blades are welded on the center disc,and inlet belling of impeller.
- Scroll: made of high grade galvanized steelsheet, and it is cutted by laser-cutting machine with high quality. The scroll plate is connected to the side plate by pittsburgh lock way and welding.
- Frame: made of angle sections steel ,and painted with polyester coatings.
- Bearing: out-spherical ball bearing are used in TBF.
- Shaft: the shaft is made of C45 carbon steel with high tolerance levels.shaft is provided corrosion resistance.
- Balance: all wheel are statically and dynamically balanced to ISO1940 and AMCA 204-G2.5 standard.



## Bearing type

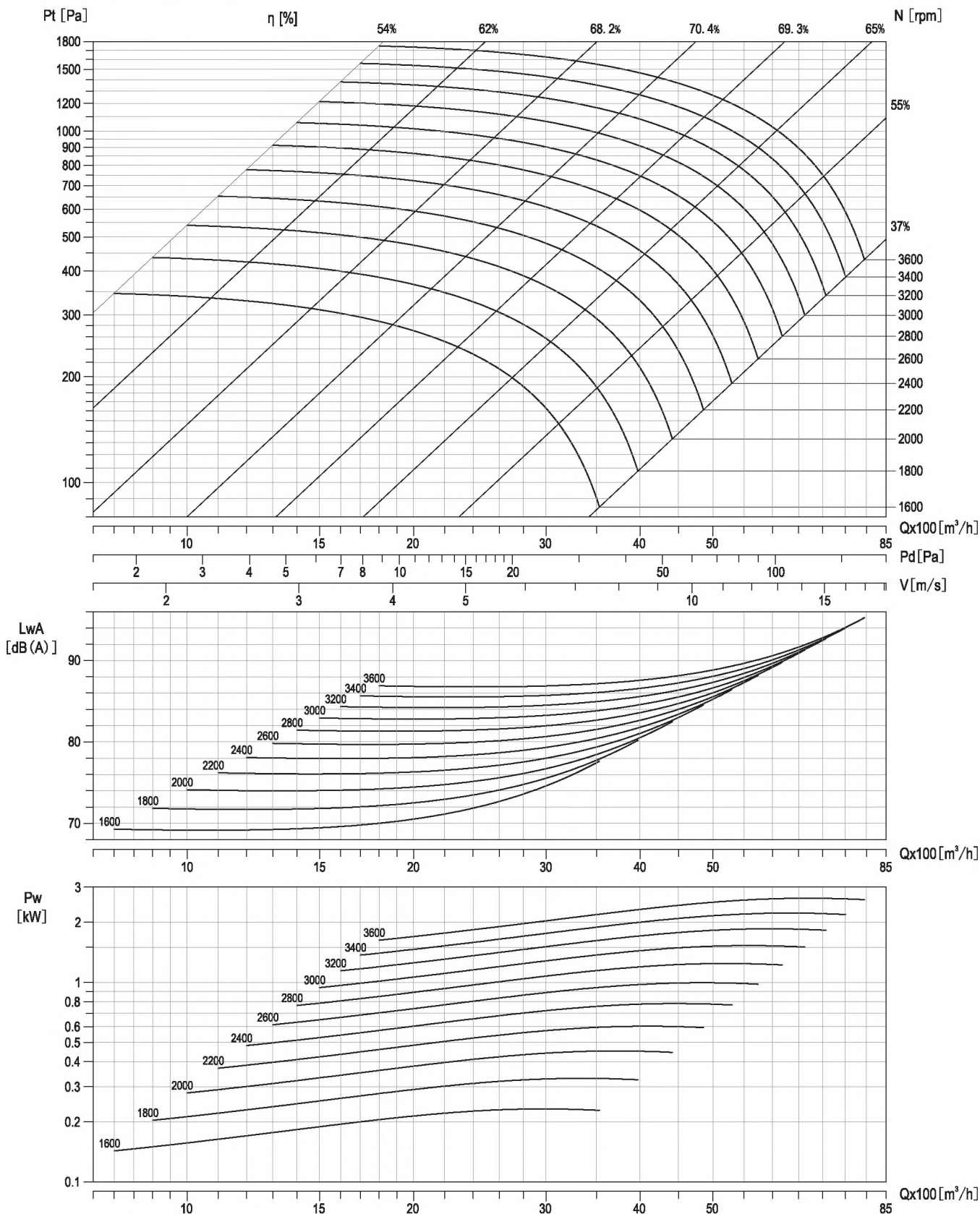
	<b>D</b>	<b>K</b>	<b>H</b>	<b>G</b>
Fan type				
Light duty	<b>DL</b> Light duty 	<b>KL</b> Light duty 	<b>HL</b> Light duty 	
Medium duty			<b>HM</b> Medium duty 	<b>GM</b> Medium duty 

## Operational limits

		Type		280	315	355	400	450	500	560	630	710	800	900	1000	
Max. power	D-K	L	kW	3	4	4.5	5.5	7.5								
		H	L	kW	5.5	5.5	5.5	6	8	12	14	20	20	18.5	25	
		M	kW	8	8	15	15	15	22	30	35	40	30	43	55	
	G	M	kW						30	38.5	40	60	65	65	80	
Max. speed	D-K	L	rpm	2800	2600	2100	1800	1500								
		H	L	rpm	3200	2900	2400	2000	1800	1700	1500	1400	1300	1000	900	
		M	rpm	3600	3500	3000	2600	2500	2400	2100	1900	1700	1200	1100	900	
	G	M	rpm						2800	2500	2200	2000	1600	1400	1300	
Temp. /min.-20°C	D-K	Max. °C		85	85	85	85	85								
	H-G	Max. °C		100	100	100	100	100	100	100	100	100	100	100	100	100
Fan weight	D	L	kg	25	26	37	42	58								
	K	L	kg	26	27	41	45	62								
	H	L	kg	29	39	51.5	65	86.5	113	154.5	192.5	246.5	299	368		
		M	kg	29	40	53	67	89	115.5	158	197	251	299	368	451	
	G	M	kg						124	166	212	271	323	397	500	

# TBF280

Air Density: 1.2 kg/m<sup>3</sup>



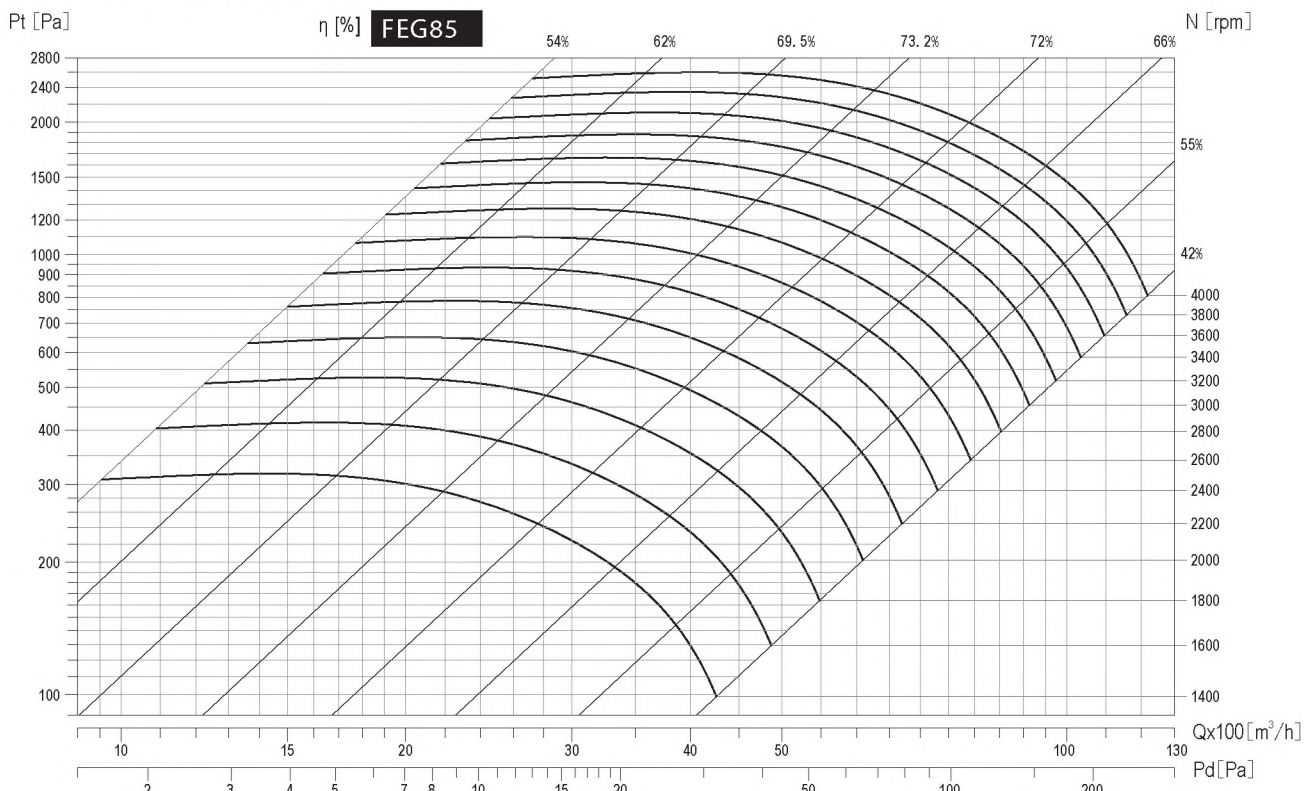
Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TBF280 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

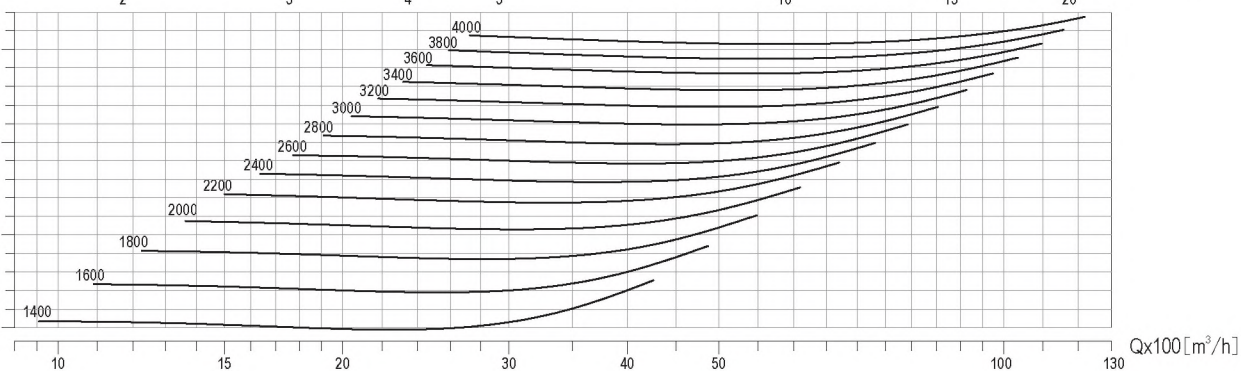
# TBF315

Air Density: 1.2 kg/m<sup>3</sup>

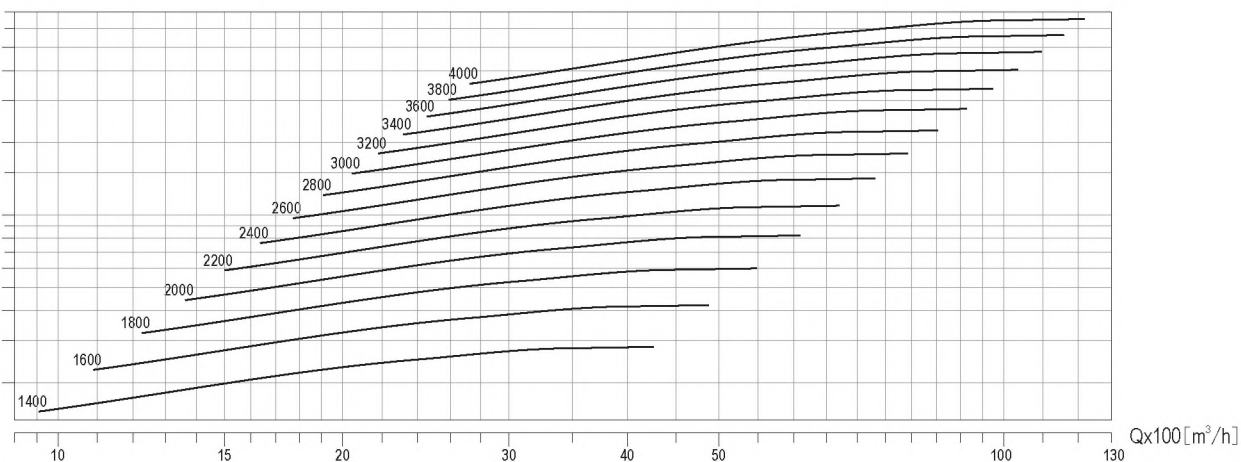
η [%] **FEG85**



LwA [dB (A)]



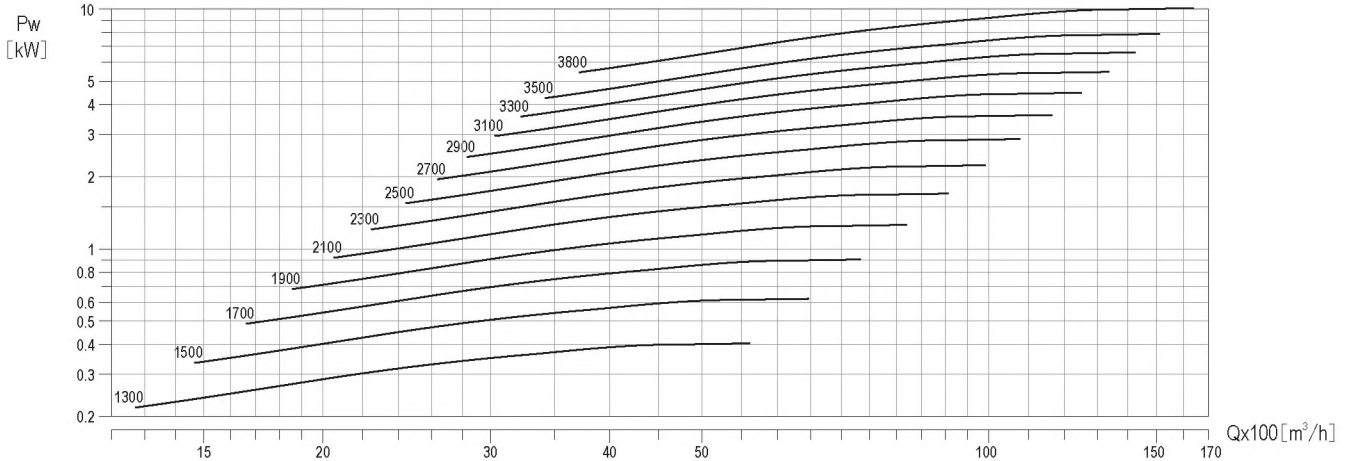
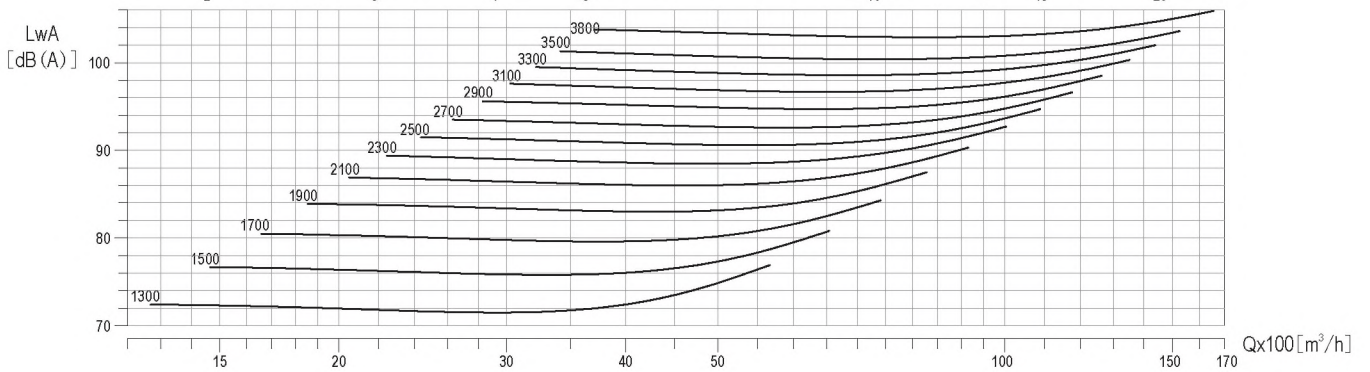
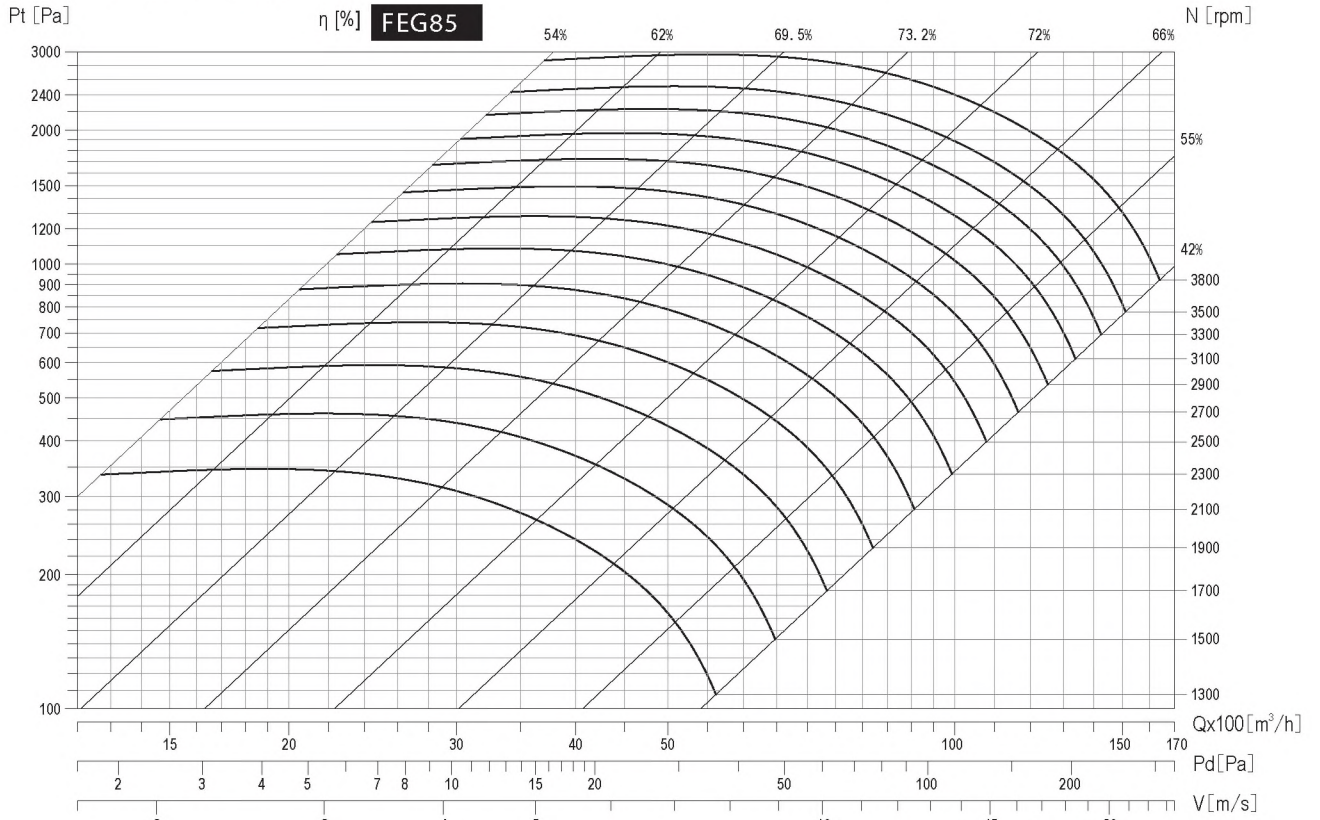
Pw [kW]



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

# TBF355

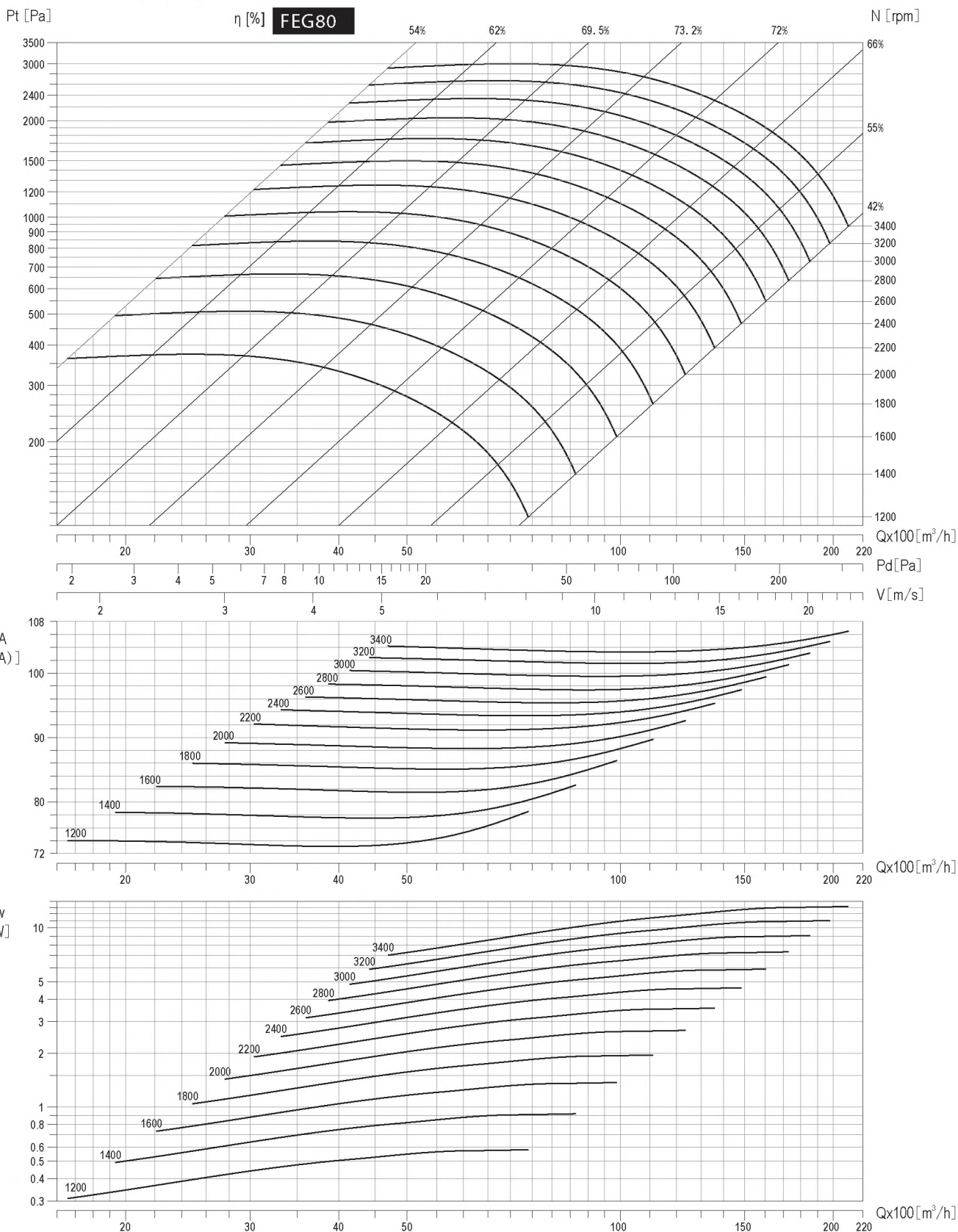
Air Density: 1.2 kg/m<sup>3</sup>



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

# TBF400

Air Density: 1.2 kg/m<sup>3</sup>

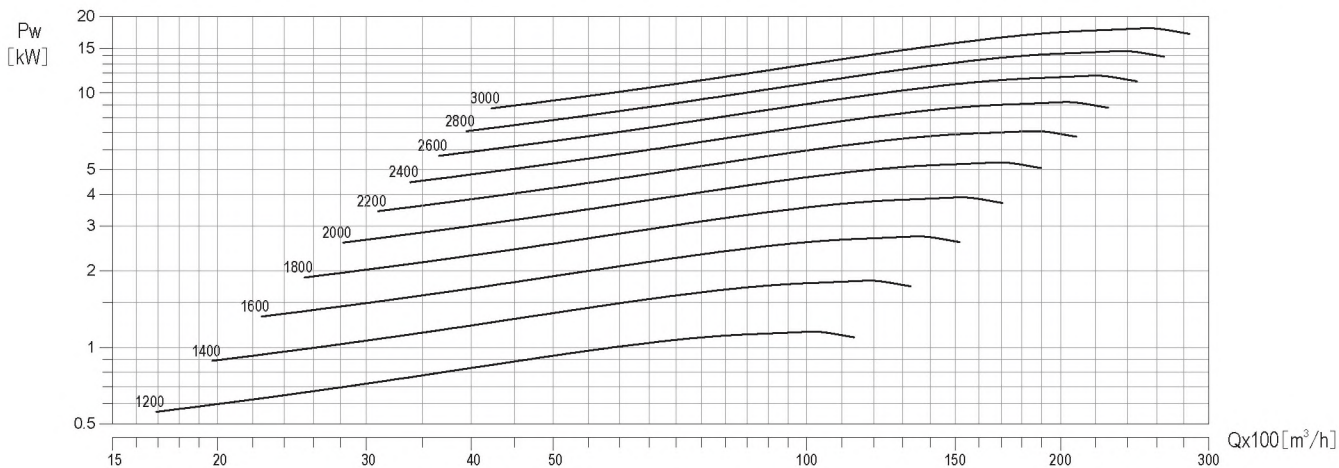
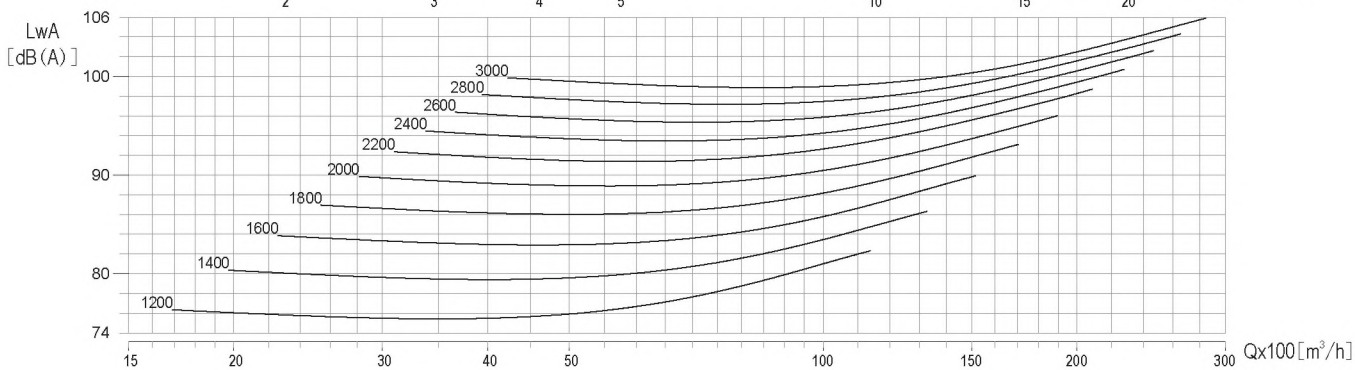
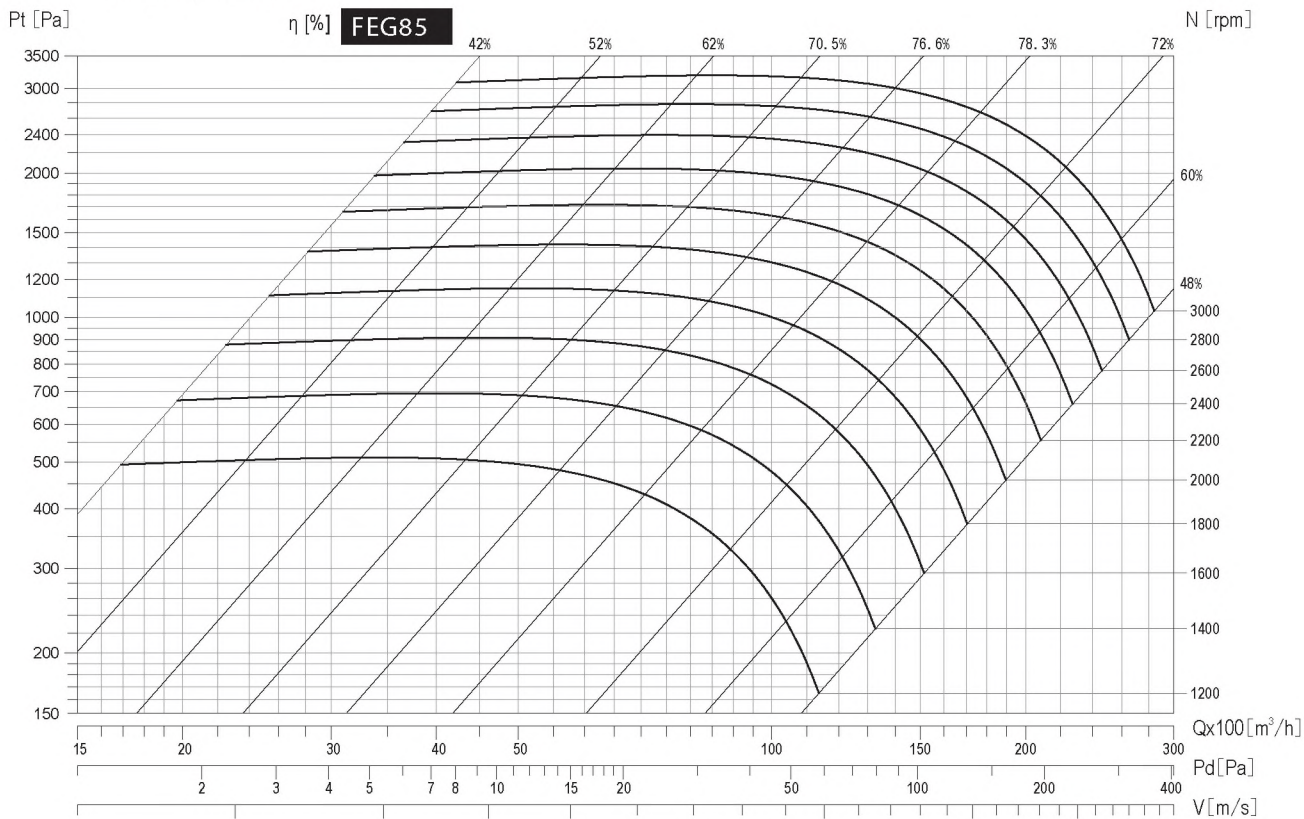


Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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

# TBF450

Air Density: 1.2 kg/m<sup>3</sup>

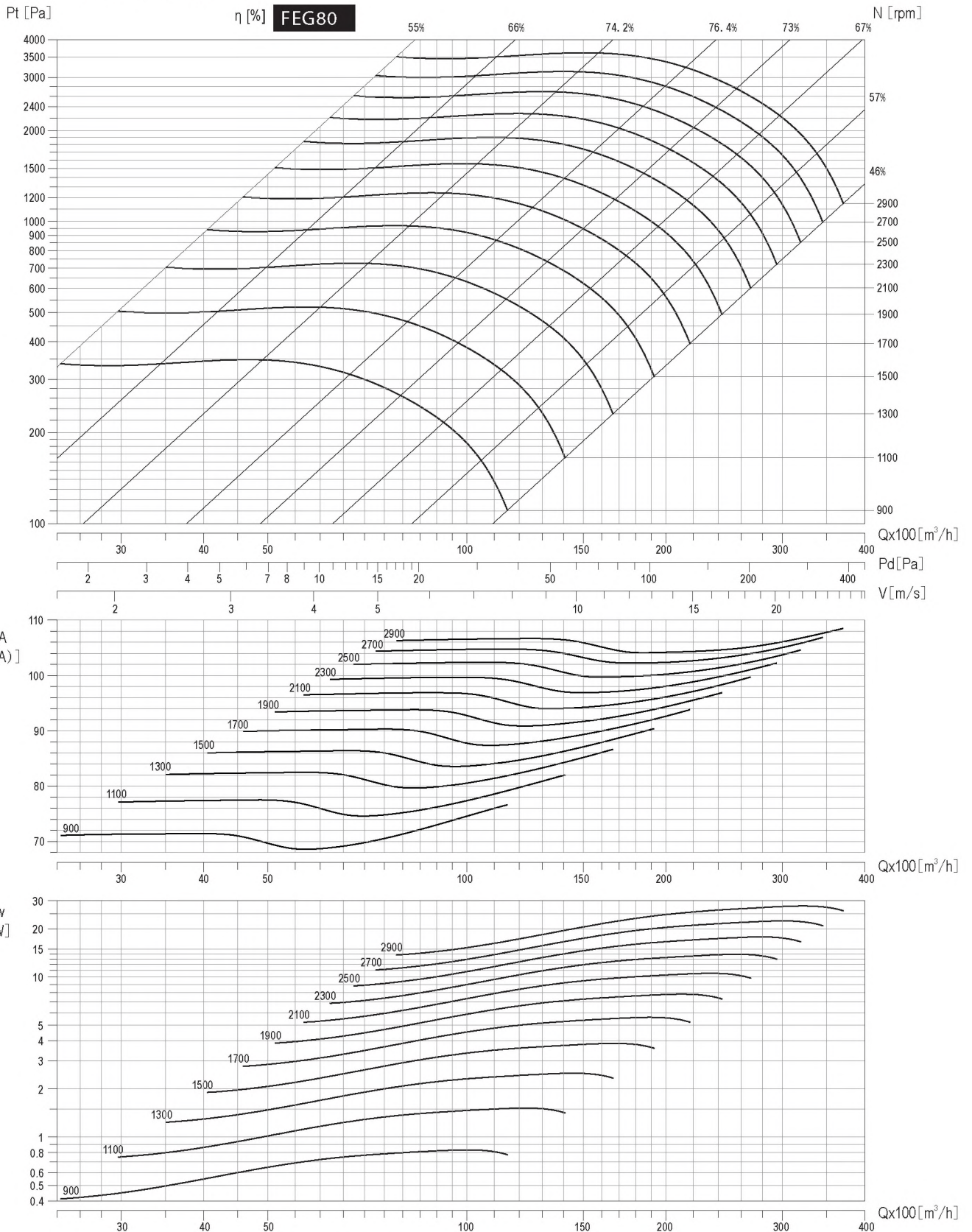
η [%] **FEG85**



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

# TBF500

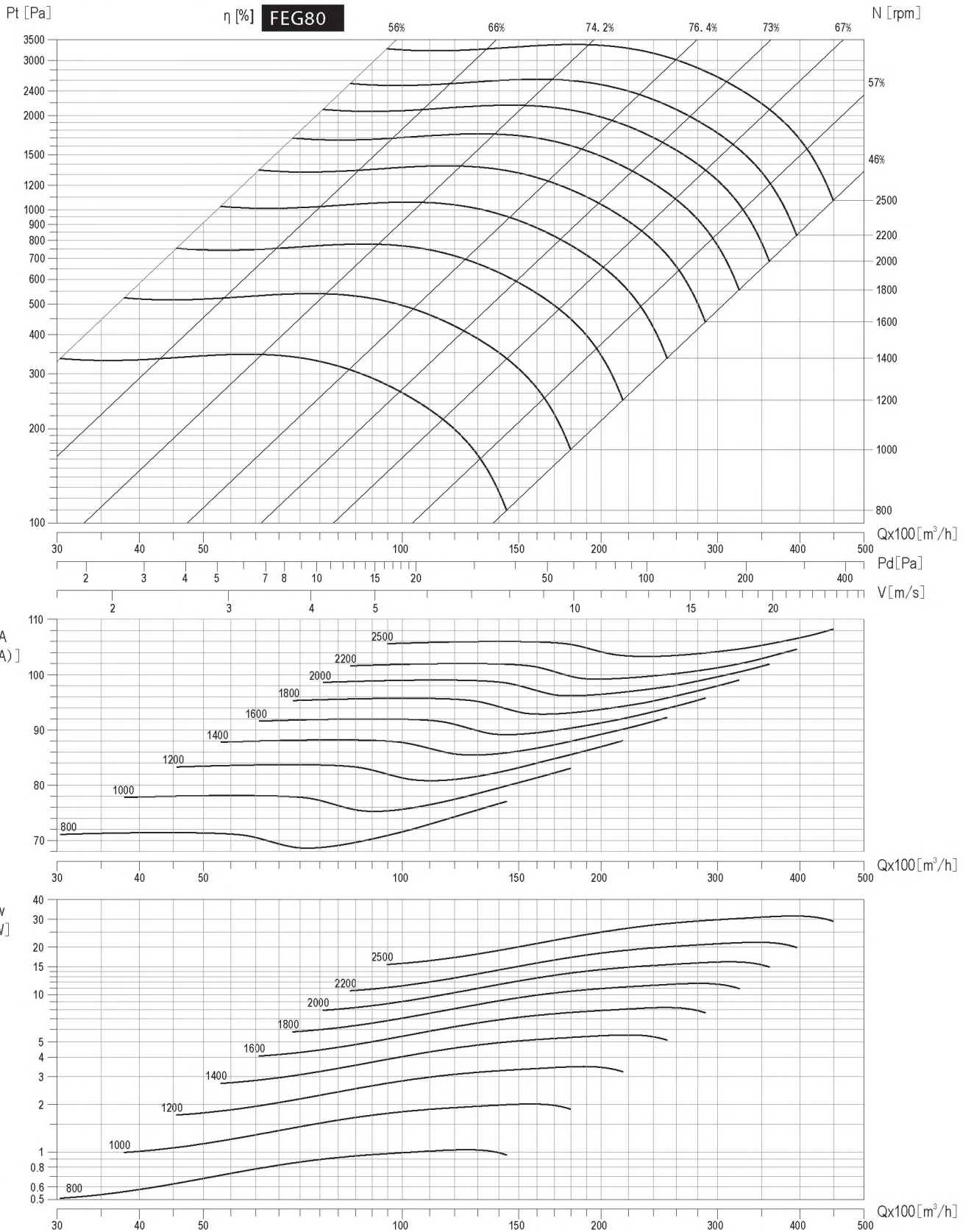
Air Density: 1.2 kg/m<sup>3</sup>



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

# TBF560

Air Density: 1.2 kg/m<sup>3</sup>

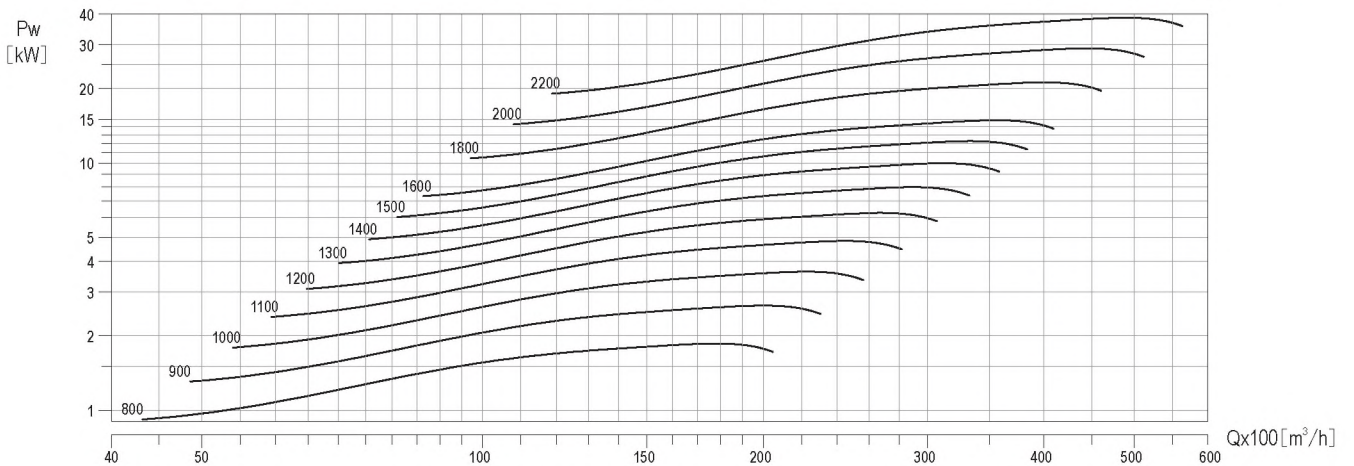
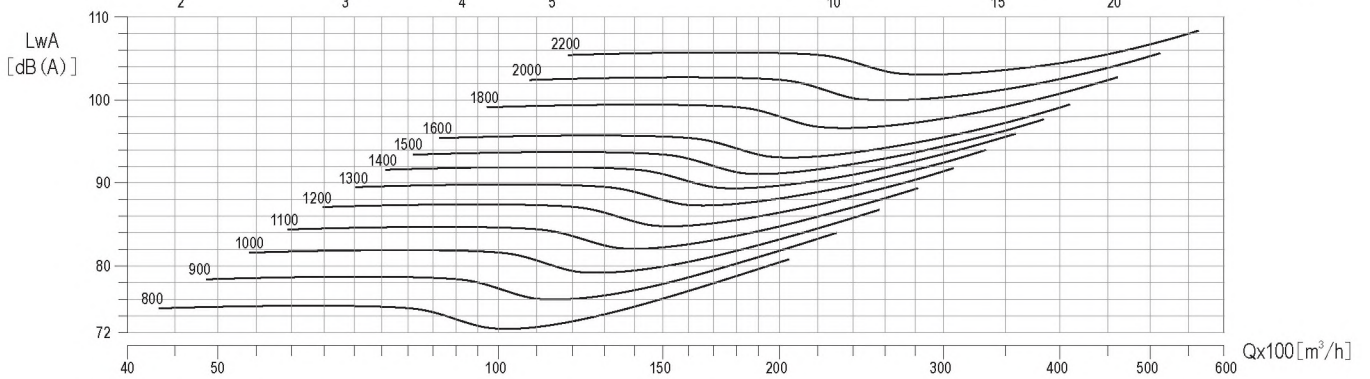
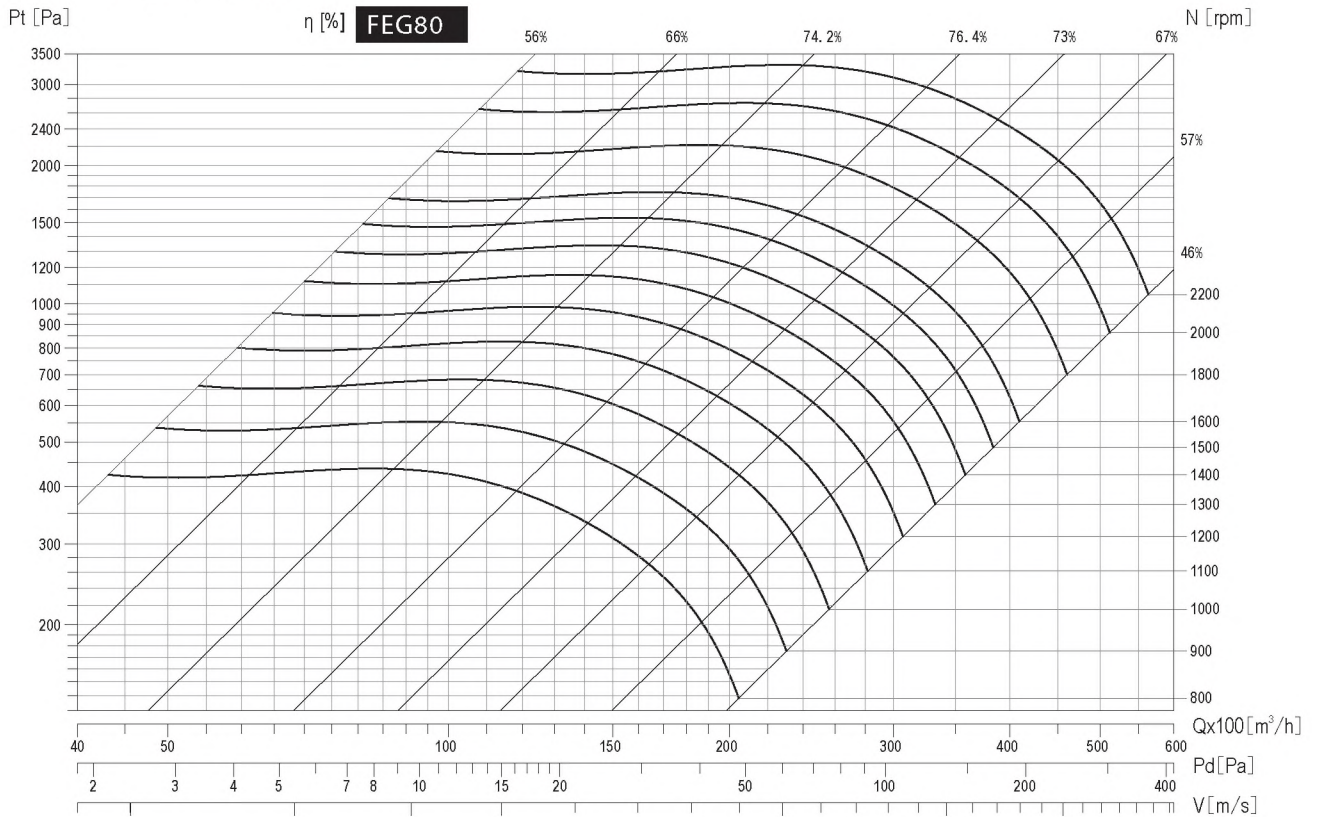


Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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



# TBF630

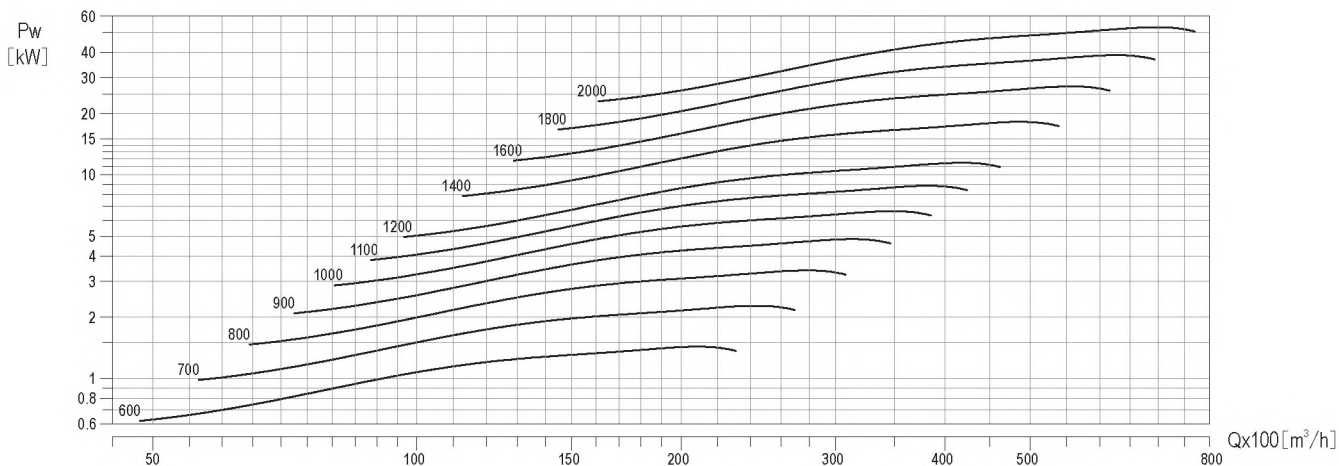
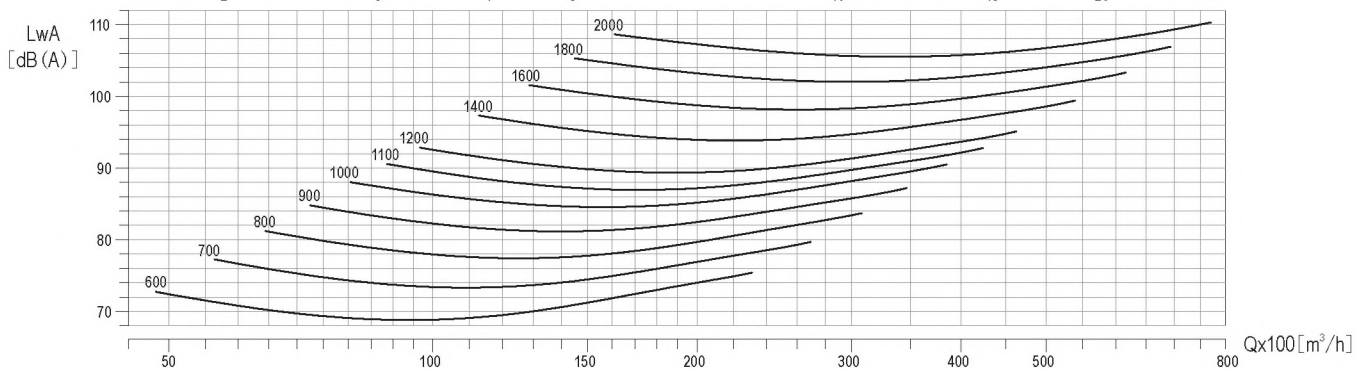
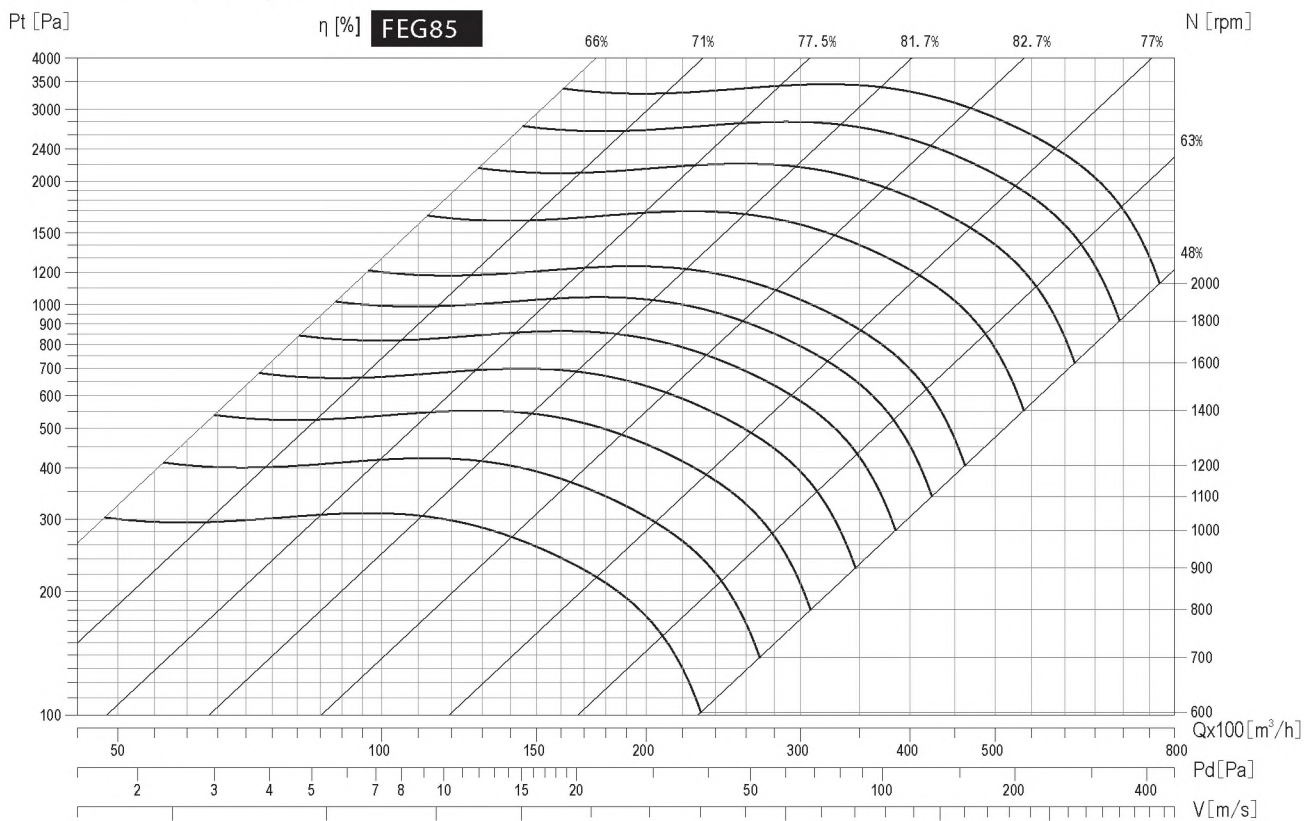
Air Density: 1.2 kg/m<sup>3</sup>



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

# TBF710

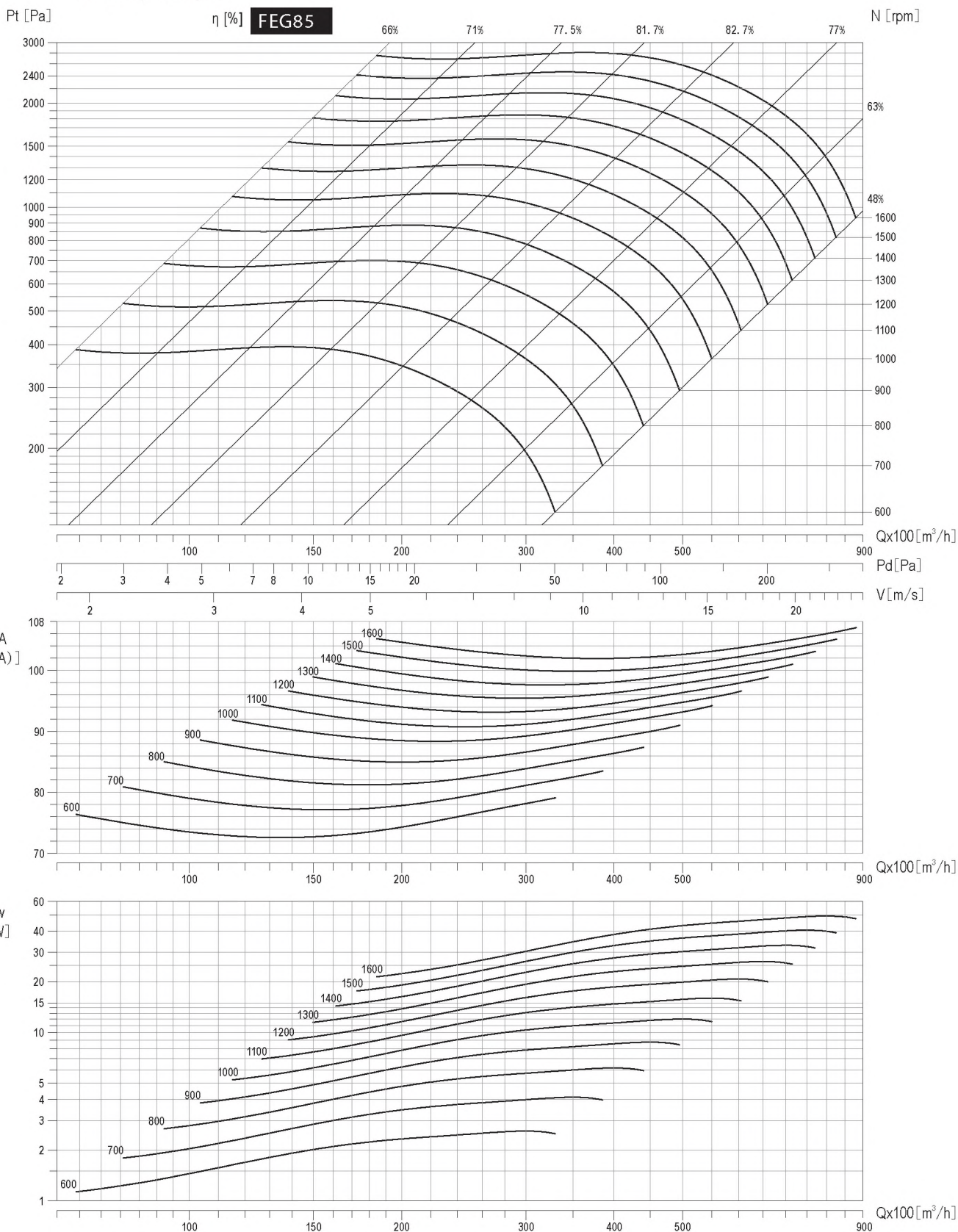
Air Density: 1.2 kg/m<sup>3</sup>



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

# TBF800

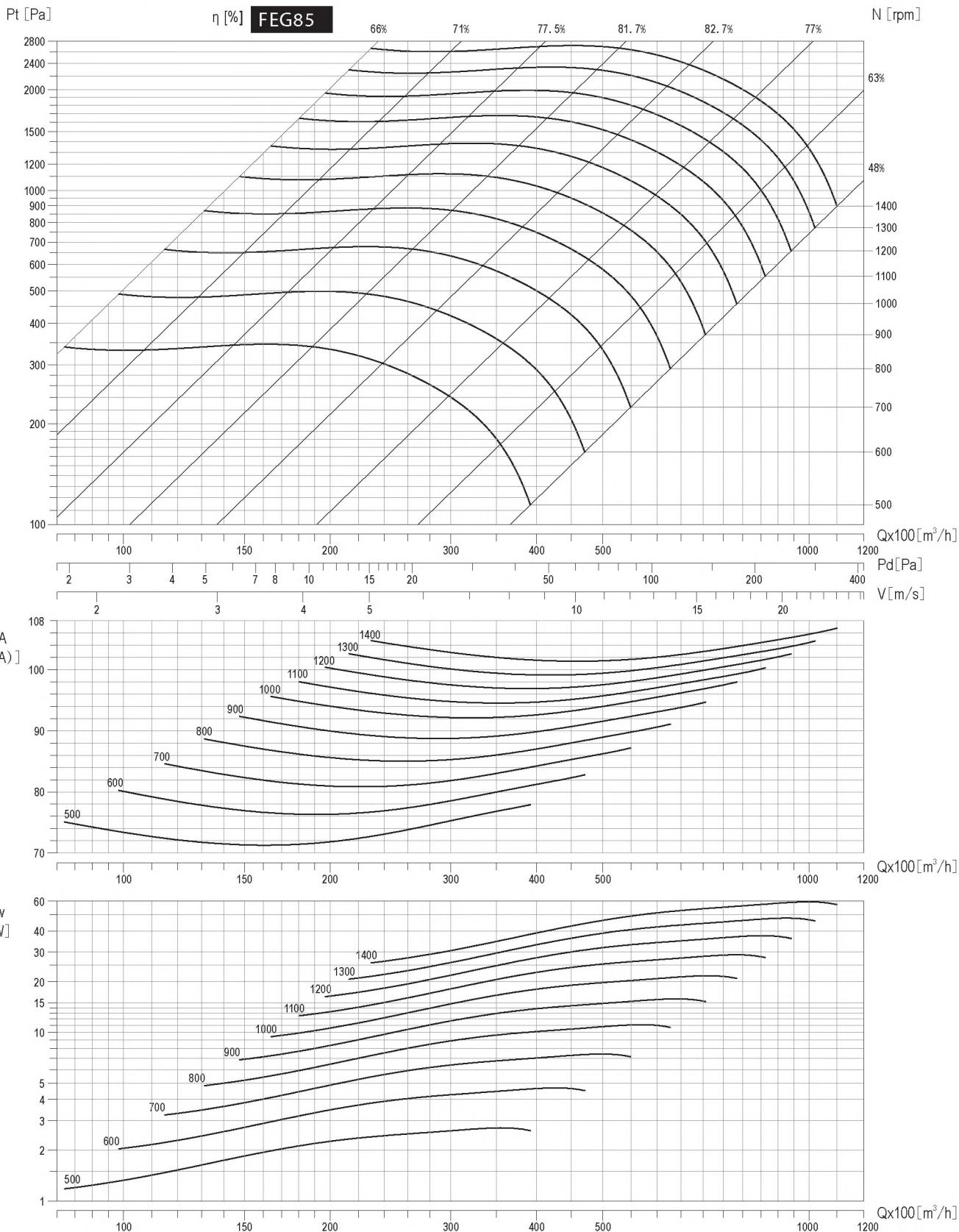
Air Density: 1.2 kg/m<sup>3</sup>



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

# TBF900

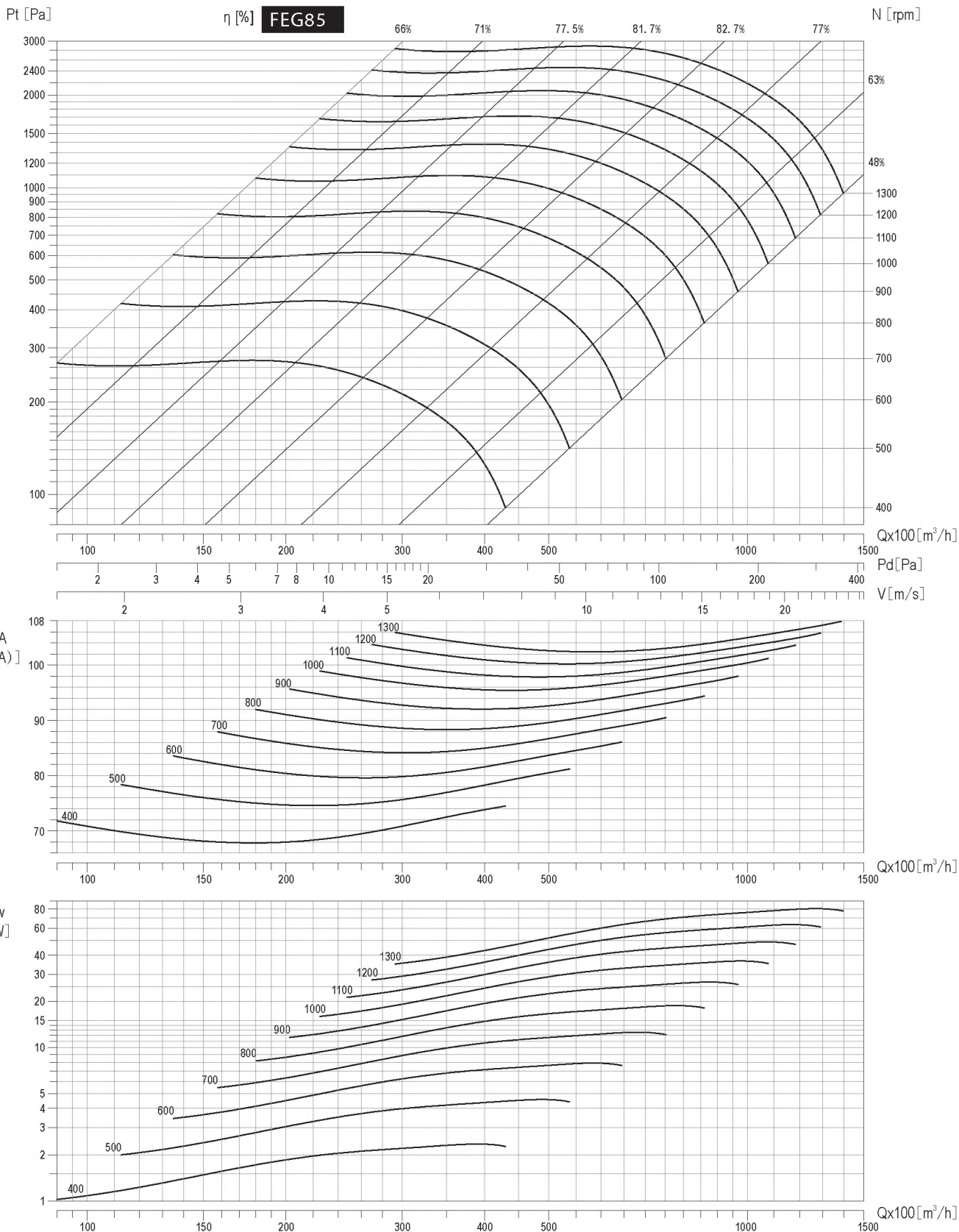
Air Density: 1.2 kg/m<sup>3</sup>



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

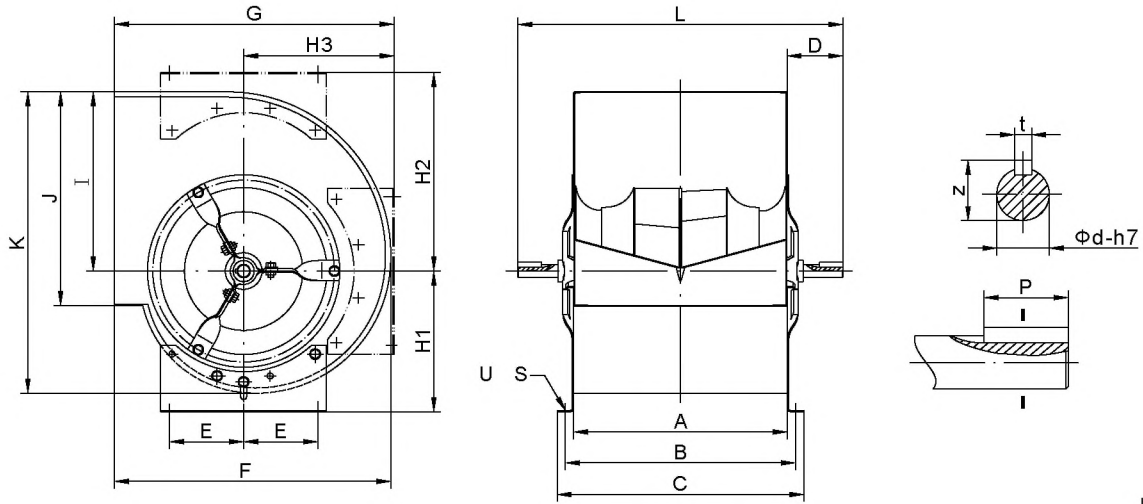
# TBF1000

Air Density: 1.2 kg/m<sup>3</sup>



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

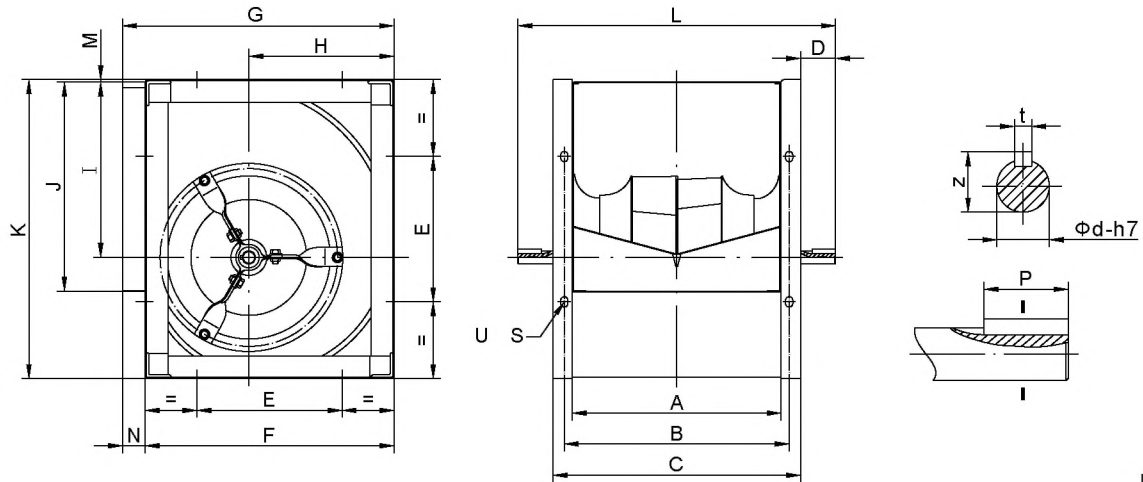
### TBF-D Dimension



[mm]

Model	A	B	C	D	E	F	G	H1	H2	H3	I	J	K	L	Φd	t	z	P	UXS
TBF280	361	391	421	90	280	432	470	236	331	255	302	361	510	540	25	8	28.3	40	11X16
TBF315	404	434	464	98	280	480	519	261	370	283	340	404	572	600	25	8	28.3	40	11X16
TBF355	452	492	532	110	315	548	580	274	411	320	383	452	644	672	30	8	33.3	40	11X16
TBF400	506	546	586	93	110	612	649	302	462	359	432	506	724	726	30	8	33.3	40	11X16
TBF450	568	608	648	115	123	681	729	336	518	407	486	568	816	814	35	10	38.3	50	13X18

### TBF-K Dimension

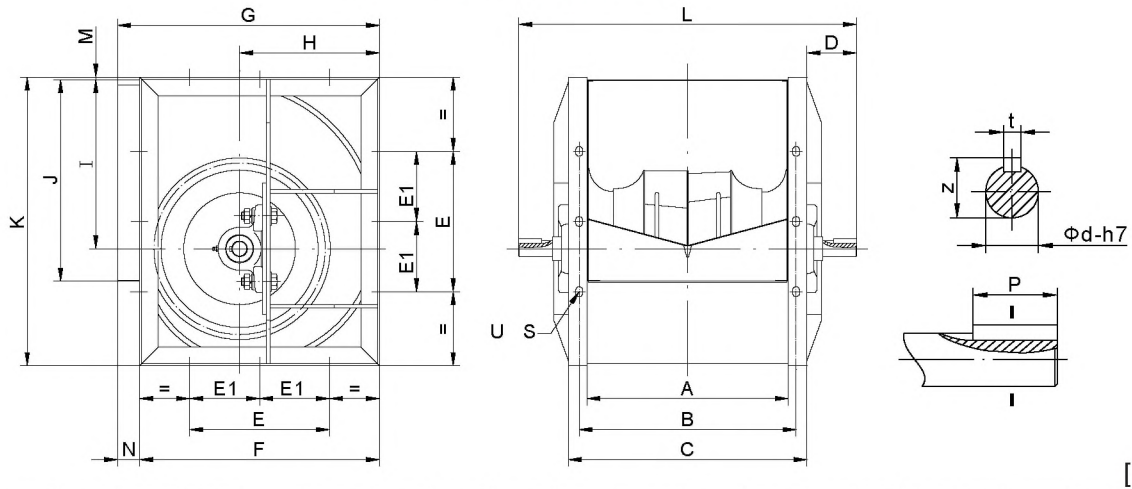


[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Φd	t	z	P	UXS
TBF280	361	391	421	60	280	432	466	251	302	361	518	540	5	34	25	8	28.3	40	11X16
TBF315	404	434	464	68	280	480	518	282	340	404	578	600	3	38	25	8	28.3	40	13X18
TBF355	452	492	532	70	315	548	578	318	383	452	654	672	6	30	30	8	33.3	40	13X18
TBF400	506	546	586	70	355	612	650	360	432	506	736	726	5	38	30	8	33.3	40	13X18
TBF450	568	608	648	83	400	681	726	404	486	568	827	814	5	45	35	10	38.3	50	13X18

Note: Overall dimension tolerance arange 4mm .

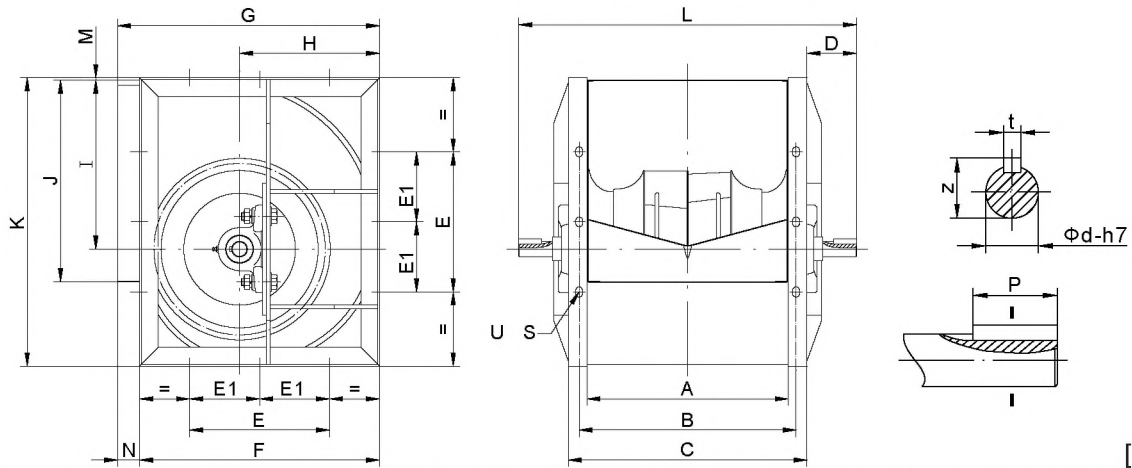
### TBF -HL Dimension



[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	Φd	t	z	P	UXS
TBF280	361	391	421	77	280		432	466	251	302	361	518	575	5	34	25	8	28.3	40	11X16
TBF315	404	434	464	84	280		480	518	282	340	404	578	632	3	38	25	8	28.3	40	13X18
TBF355	452	492	532	84	315		548	578	318	383	452	654	700	6	30	30	8	33.3	40	13X18
TBF400	506	546	586	87	355		612	650	360	432	506	736	760	5	38	30	8	33.3	40	13X18
TBF450	568	608	648	98.5	400		681	726	404	486	568	827	845	5	45	35	10	38.3	50	13X18
TBF500	638	678	718	98.5	450		750	800	448	538	638	918	915	5	50	35	10	38.3	50	13X18
TBF560	714	764	814	93		250	844	892	502	603	714	1030	1000	7	48	40	12	43.3	70	13X18
TBF630	800	850	900	95		280	945	998	564	679	800	1157	1090	6	53	45	14	48.5	70	13X18
TBF710	898	948	998	129		315	1057	1120	636	765	898	1302	1255	7	63	50	14	53.5	90	17X22
TBF800	1006	1056	1106	141		355	1180	1254	714	862	1006	1468	1388	7	74	55	16	59	90	17X22
TBF900	1130	1180	1256	155		400	1319	1408	804	971	1130	1648	1566	7	89	60	18	64	90	17X22

### TBF -HM Dimension

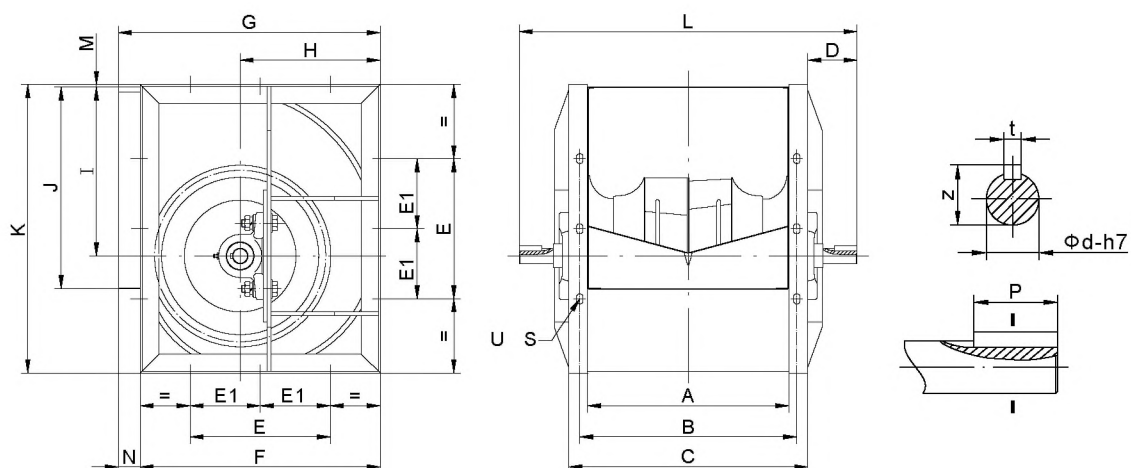


[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	Φd	t	z	P	UXS
TBF280	361	391	421	77	280		432	466	251	302	361	518	575	5	34	25	8	28.3	40	11X16
TBF315	404	434	464	84	280		480	518	282	340	404	578	632	3	38	30	10	33.3	50	13X18
TBF355	452	492	532	93	315		548	578	318	383	452	654	718	6	30	35	10	38.3	50	13X18
TBF400	506	546	586	93	355		612	650	360	432	506	736	772	5	38	35	10	38.3	50	13X18
TBF450	568	608	648	115	400		681	726	404	486	568	827	878	5	45	40	12	43.3	70	13X18
TBF500	638	678	718	119	450		750	800	448	538	638	918	956	5	50	40	12	43.3	70	13X18
TBF560	714	764	814	128		250	844	892	502	603	714	1030	1070	7	48	45	14	48.3	70	13X18
TBF630	800	850	900	127.5		280	945	998	564	679	800	1157	1155	6	53	50	14	53.8	90	13X18
TBF710	898	948	998	141		315	1057	1120	636	765	888	1302	1280	7	63	55	16	59	90	17X22
TBF800	1006	1056	1106	141		355	1180	1254	714	862	996	1468	1388	7	74	55	16	59	90	17X22
TBF900	1130	1180	1256	155		400	1319	1408	804	971	1120	1648	1566	7	89	60	18	64	100	17X22
TBF1000	1266	1316	1392	213		450	1450	1540	884	1066	1256	1810	1818	9	90	65	18	69	100	17X22

Note: Overall dimension tolerance range 4mm.

### TBF -GM Dimension



[mm]

Model	A	B	C	D	E	E1	F	G	H	I	J	K	L	M	N	$\Phi d$	t	z	P	UXS
TBF500	638	678	718	171	450	/	750	800	448	538	638	918	1060	5	50	40	12	43.3	70	13X18
TBF560	714	764	814	173	/	250	844	892	502	603	714	1030	1160	7	48	50	14	53.8	70	13X18
TBF630	800	850	900	200	/	280	945	998	564	679	800	1157	1300	6	53	50	14	53.8	90	13X18
TBF710	898	948	998	217	/	315	1057	1120	636	765	888	1302	1432	7	63	60	18	64	90	17X22
TBF800	1006	1056	1106	217	/	355	1180	1254	714	862	996	1468	1540	7	74	60	18	64	90	17X22
TBF900	1130	1180	1256	208	/	400	1319	1408	804	971	1120	1648	1672	7	89	65	18	69	100	17X22
TBF1000	1266	1316	1392	213	/	450	1450	1540	884	1066	1256	1810	1818	9	90	65	18	69	100	17X22

Note: Overall dimension tolerance arange 4mm .



### TBF - D Overall dimension

		0°					90°					180°				
RD																
LG																
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	71	495	840	630	642	33	412	900	630	559	33	448	840	630	641	33
	80	506	880	630	642	33	425	940	630	559	33	462	880	630	641	33
	90	519	920	630	642	33	439	980	630	559	33	478	920	630	641	33
	100	532	960	630	642	33	455	1020	630	559	33	495	960	630	641	33
	112	549	1020	630	642	33	474	1080	630	559	34	516	1020	630	641	33
	132	579	1100	630	642	34	508	1160	630	559	34	551	1100	630	641	34
355	71	548	900	702	712	44	454	960	702	620	45	486	900	702	697	44
	80	558	940	702	712	44	466	1000	702	620	45	500	940	702	697	44
	90	570	980	702	712	45	480	1060	702	620	45	516	980	702	697	45
	100	583	1020	702	712	45	495	1100	702	620	45	533	1020	702	697	45
	112	599	1080	702	712	45	513	1140	702	620	45	554	1080	702	697	45
	132	627	1180	702	712	46	545	1250	702	620	46	589	1180	702	697	46
400	71	608	960	756	794	50	500	1050	756	689	50	532	960	756	774	50
	80	617	1000	756	794	50	511	1080	756	689	50	545	1000	756	794	50
	90	629	1040	756	794	50	525	1150	756	689	51	561	1040	756	774	50
	100	641	1100	756	794	51	539	1180	756	689	51	577	1100	756	774	51
	112	656	1140	756	794	51	556	1250	756	689	51	597	1140	756	774	51
	132	683	1250	756	794	51	587	1300	756	689	52	632	1250	756	774	51
	160	723	1350	756	794	52	632	1450	756	689	52	682	1350	756	774	52

### TBF - K Overall dimension

		0°					90°					180°				
RD																
LG																
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	71	483	840	630	618	34	414	900	630	558	34	442	840	630	618	34
	80	495	880	630	618	34	427	940	630	558	34	457	880	630	618	34
	90	509	920	630	618	34	442	980	630	558	34	474	920	630	618	34
	100	523	960	630	618	34	458	1020	630	558	34	491	960	630	618	34
	112	541	1020	630	618	34	477	1080	630	558	35	513	1020	630	618	34
	132	572	1120	630	618	35	511	1180	630	558	35	550	1120	630	618	35
355	71	537	900	702	694	48	457	980	702	618	49	485	900	702	694	48
	80	548	940	702	694	48	469	1020	702	618	49	500	940	702	694	48
	90	561	980	702	694	49	483	1060	702	618	49	516	980	702	694	49
	100	575	1020	702	694	49	498	1100	702	618	49	533	1020	702	694	49
	112	592	1080	702	694	49	516	1160	702	618	50	554	1080	702	694	49
	132	621	1180	702	694	50	549	1250	702	618	50	589	1180	702	694	50
400	71	599	980	756	776	53	506	1060	756	690	53	536	980	756	776	53
	80	609	1020	756	776	53	518	1100	756	690	54	550	1020	756	776	53
	90	621	1060	756	776	53	531	1140	756	690	54	566	1060	756	776	53
	100	634	1100	756	776	54	545	1180	756	690	54	582	1100	756	776	54
	112	650	1160	756	776	54	563	1250	756	690	54	602	1160	756	776	54
	132	678	1250	756	776	54	594	1350	756	690	55	637	1250	756	776	54
	160	720	1350	756	776	55	639	1450	756	690	55	687	1350	756	776	55

## TBF - H Overall dimension

		0°					90°					180°				
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	100	523	960	662	618	47	458	1020	662	558	47	491	960	662	618	47
	112	541	1020	662	618	47	477	1080	662	558	48	513	1020	662	618	47
	132	572	1100	662	618	48	511	1180	662	558	48	550	1100	662	618	48
355	100	619	1250	662	618	49	561	1300	662	558	49	603	1250	662	618	49
	112	592	1080	748	694	61	498	1100	748	618	61	533	1020	748	694	61
	132	621	1180	748	694	62	516	1150	748	618	61	554	1080	748	694	61
400	160	665	1300	748	694	62	549	1250	748	618	62	589	1180	748	694	62
	112	650	1160	802	776	76	563	1250	802	690	76	602	1160	802	776	76
	132	678	1250	802	776	76	594	1350	802	690	77	637	1250	802	776	76
450	160	720	1350	802	776	77	639	1450	802	690	77	687	1350	802	776	77
	180	752	1450	802	776	77	674	1550	802	690	78	724	1450	802	776	77
	112	714	1250	908	867	99	614	1350	908	766	99	654	1250	908	867	99
500	132	740	1300	908	867	99	643	1400	908	766	99	688	1300	908	867	99
	160	780	1450	908	867	100	687	1550	908	766	100	737	1450	908	867	100
	180	811	1550	908	867	100	720	1650	908	766	101	773	1550	908	867	100
560	132	798	1400	986	968	135	692	1500	986	850	136	738	1400	986	968	135
	160	837	1500	986	968	136	735	1650	986	850	137	786	1500	986	968	136
	180	867	1600	986	968	136	767	1750	986	850	137	821	1600	986	968	136
630	200	897	1700	986	968	137	800	1800	986	850	138	857	1700	986	968	137
	132	877	1500	1110	1080	176	755	1600	1110	942	177	802	1500	1110	1080	176
	160	914	1600	1110	1080	177	796	1750	1110	942	178	848	1600	1110	1080	177
710	180	942	1700	1110	1080	178	826	1850	1110	942	179	883	1700	1110	1080	178
	200	971	1800	1110	1080	179	858	1950	1110	942	180	918	1800	1110	1080	179
	160	1004	1700	1196	1207	218	868	1850	1196	1048	219	922	1700	1196	1207	218
800	180	1030	1800	1196	1207	218	897	1950	1196	1048	219	955	1800	1196	1207	218
	200	1058	1900	1196	1207	219	927	2050	1196	1048	220	989	1900	1196	1207	219
	225	1094	2000	1196	1207	220	966	2150	1196	1048	221	1033	2000	1196	1207	220
900	160	1094	1850	1310	1382	286	938	2000	1310	1200	288	999	1850	1310	1382	286
	180	1120	1950	1310	1382	287	966	2100	1310	1200	289	1032	1950	1310	1382	287
	200	1147	2000	1310	1382	288	996	2200	1310	1200	290	1066	2000	1310	1382	288
800	225	1182	2150	1310	1382	290	1034	2300	1310	1200	291	1109	2150	1310	1382	290
	90	1135	1650	1418	1548	333	950	1850	1418	1334	335	992	1650	1418	1548	333
	100	1145	1700	1418	1548	333	961	1900	1418	1334	336	1005	1700	1418	1548	333
	112	1157	1750	1418	1548	334	975	1950	1418	1334	337	1022	1750	1418	1548	334
	132	1178	1850	1418	1548	335	998	2050	1418	1334	338	1052	1850	1418	1548	335
	160	1210	1950	1418	1548	337	1034	2200	1418	1334	340	1095	1950	1418	1548	337
	180	1235	2050	1418	1548	338	1061	2300	1418	1334	341	1126	2050	1418	1548	338
900	200	1260	2150	1418	1548	339	1089	2350	1418	1334	341	1159	2150	1418	1548	339
	225	1293	2250	1418	1548	340	1126	2500	1418	1334	343	1201	2250	1418	1548	340
	100	1283	1850	1596	1728	406	1071	2100	1596	1488	409	1117	1850	1596	1728	406
	112	1294	1900	1596	1728	406	1083	2150	1596	1488	409	1134	1900	1596	1728	406
	132	1314	2000	1596	1728	408	1106	2250	1596	1488	411	1162	2000	1596	1728	408
	160	1345	2150	1596	1728	409	1139	2350	1596	1488	412	1203	2150	1596	1728	409
	180	1368	2200	1596	1728	410	1165	2450	1596	1488	413	1234	2200	1596	1728	410
900	200	1392	2300	1596	1728	411	1191	2550	1596	1488	414	1266	2300	1596	1728	411
	225	1423	2400	1596	1728	413	1226	2650	1596	1488	416	1306	2400	1596	1728	413
	250	1456	2550	1596	1728	414	1262	2750	1596	1488	417	1348	2550	1596	1728	414

## TBF - G Overall dimension

		0°					90°					180°				
Model	Motor Size	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)	C	L	W	H	Weight (kg)
315	132	572	1120	762	618	57	511	1180	762	558	57	550	1120	762	618	57
	160	619	1250	762	618	58	561	1300	762	558	58	603	1250	762	618	58
	180	654	1350	762	618	58	598	1400	762	558	58	642	1350	762	618	58
	200	690	1400	762	618	58	636	1500	762	558	59	682	1400	762	618	58
355	132	621	1180	852	694	74	549	1250	852	618	74	589	1180	852	694	74
	160	665	1300	852	694	74	597	1350	852	618	75	641	1300	852	694	74
	180	699	1400	852	694	75	633	1450	852	618	75	679	1400	852	694	74
	200	733	1500	852	694	75	670	1550	852	618	76	718	1500	852	694	75
400	160	720	1350	906	776	92	639	1450	906	690	92	687	1350	906	776	92
	180	752	1450	906	776	92	674	1550	906	690	93	724	1450	906	776	92
	200	785	1550	906	776	93	709	1650	906	690	93	762	1550	906	776	93
	225	828	1650	906	776	93	755	1750	906	690	94	811	1650	906	776	93
450	160	780	1450	976	867	105	687	1550	976	766	105	737	1450	976	867	105
	180	811	1550	976	867	105	720	1650	976	766	106	773	1550	976	867	105
	200	842	1650	976	867	106	754	1750	976	766	106	810	1650	976	867	106
	225	883	1750	976	867	106	798	1850	976	766	107	857	1750	976	867	106
500	180	867	1600	1096	968	142	767	1750	1096	850	143	821	1600	1096	968	142
	200	897	1700	1096	968	143	800	1800	1096	850	144	857	1700	1096	968	143
	225	937	1800	1096	968	144	843	1950	1096	850	145	904	1800	1096	968	144
	250	979	1900	1096	968	145	887	2050	1096	850	145	951	1900	1096	968	145
560	180	942	1700	1168	1080	186	826	1850	1168	942	187	883	1700	1168	1080	186
	200	971	1800	1168	1080	187	858	1950	1168	942	188	918	1800	1168	1080	187
	225	1009	1900	1168	1080	187	899	2050	1168	942	189	963	1900	1168	1080	187
	250	1049	2000	1168	1080	188	942	2150	1168	942	189	1009	2000	1168	1080	188
630	200	1058	1900	1316	1207	234	927	2050	1316	1048	235	989	1900	1316	1207	234
	225	1094	2000	1316	1207	235	966	2150	1316	1048	236	1033	2000	1316	1207	235
	250	1132	2100	1316	1207	236	1007	2300	1316	1048	237	1078	2100	1316	1207	236
	280	1179	2250	1316	1207	237	1058	2400	1316	1048	238	1133	2250	1316	1207	237
710	200	1147	2000	1420	1382	308	996	2200	1420	1200	310	1066	2000	1420	1382	308
	225	1182	2150	1420	1382	310	1034	2300	1420	1200	311	1109	2150	1420	1382	310
	250	1219	2250	1420	1382	311	1074	2450	1420	1200	313	1153	2250	1420	1382	311
	280	11265	2400	1420	1382	313	1124	2550	1420	1200	315	1208	2400	1420	1382	313
800	160	1210	2000	1528	1548	361	1034	2200	1528	1334	364	1095	2000	1528	1548	361
	180	1235	2050	1528	1548	362	1061	2300	1528	1334	365	1126	2050	1528	1548	362
	200	1260	2150	1528	1548	363	1089	2350	1528	1334	365	1159	2150	1528	1548	363
	225	1293	2250	1528	1548	364	1126	2500	1528	1334	367	1201	2250	1528	1548	364
	250	1328	2400	1528	1548	366	1164	2600	1528	1334	368	1243	2400	1528	1548	366
	280	1372	2500	1528	1548	367	1212	2750	1528	1334	370	1296	2500	1528	1548	367
900	180	1368	2200	1690	1728	439	1165	2450	1690	1488	442	1234	2200	1690	1728	439
	200	1392	2300	1690	1728	440	1191	2550	1690	1488	443	1266	2300	1690	1728	440
	225	1423	2400	1690	1728	442	1226	2650	1690	1488	445	1306	2400	1690	1728	442
	250	1456	2550	1690	1728	443	1262	2750	1690	1488	446	1348	2550	1690	1728	443
	280	1497	2650	1690	1728	445	1308	2900	1690	1488	448	1399	2650	1690	1728	445
1000	315	1548	2850	1690	1728	447	1363	3050	1690	1488	450	1460	2850	1690	1728	447
	200	1510	2450	1875	1890	559	1286	2700	1875	1620	562	1362	2450	1875	1890	559
	225	1540	2550	1875	1890	560	1319	2800	1875	1620	563	1402	2550	1875	1890	560
	250	1572	2650	1875	1890	561	1354	2950	1875	1620	565	1442	2650	1875	1890	561
	280	1611	2800	1875	1890	563	1397	3050	1875	1620	565	1492	2800	1875	1890	563
315	1660	3000	1875	1890	566	1450	3250	1875	1620	569	1553	3000	1875	1890	566	

## TAE Series



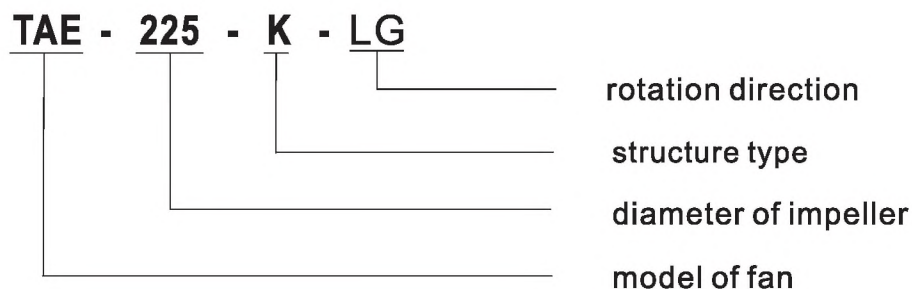
## DWDI, Forward Curved CENTRIFUGAL FAN



GTG Industries Sdn Bhd certifies that the TAE series for model TAE315, TAE 400 to TAE 710 and TAE900 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## Designation of Products

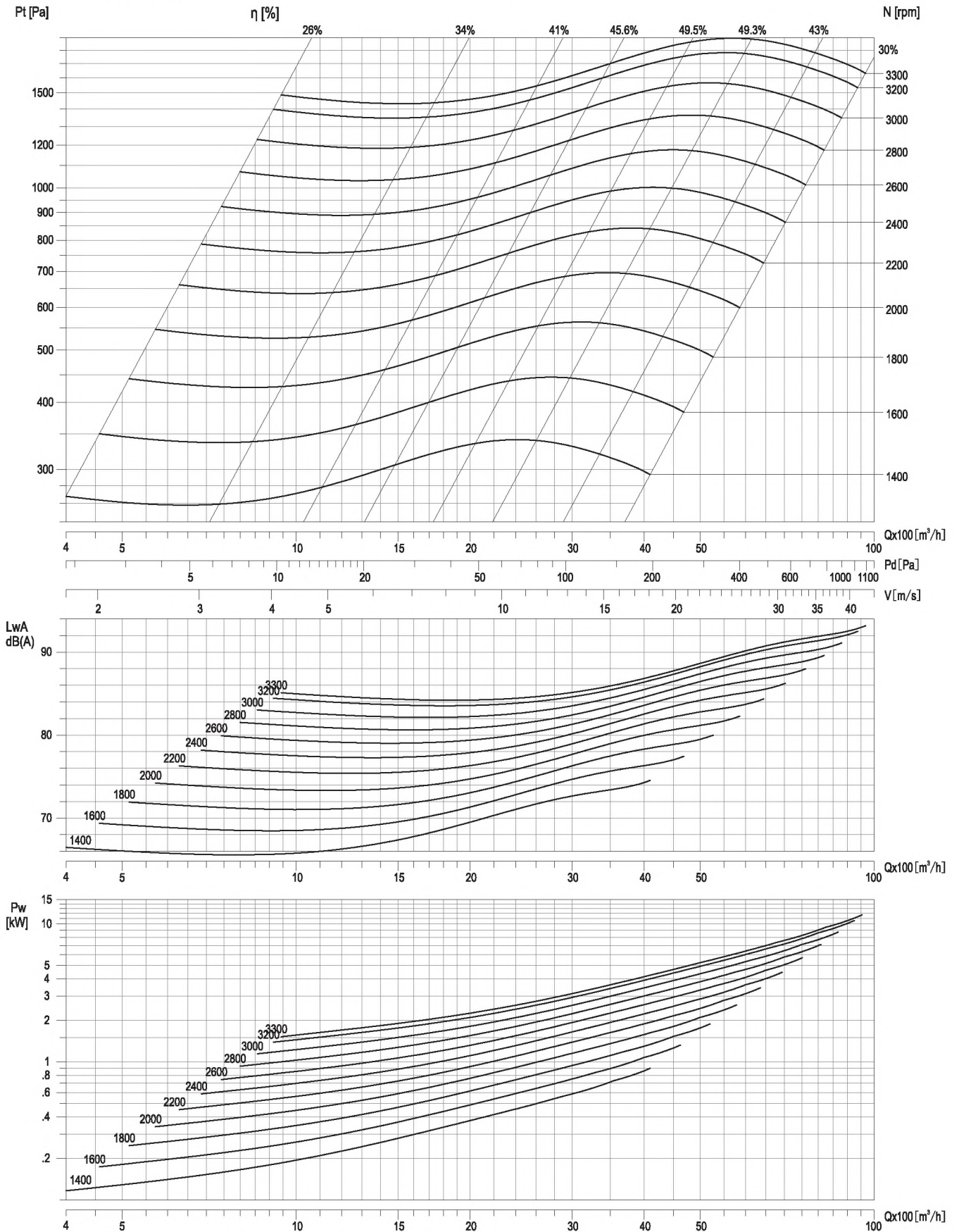


## Technical specification

- **Wheel:** The impeller of TAE have forward curved multi-blades in order to obtain max, efficiency and low noise level. The impeller is manufactured in galvanized steel.
- **Scroll:** made of high grade galvanized steel sheet, and it is cutted by laser-cutting machine with high quality.
- **Frame:** made of galvanized angle sections steel .
- **Bearing:** out-spherical ball bearing are used in TAE
- **Shaft:** the shaft is made of C45 carbon steel with high tolerance levels. shaft is provided corrosion resistance.
- **Balance:** all wheel are statically and dynamically balanced to ISO1940 and AMCA 204-G4.0 standard.

# TAE200

Air Density: 1.2 kg/m<sup>3</sup>

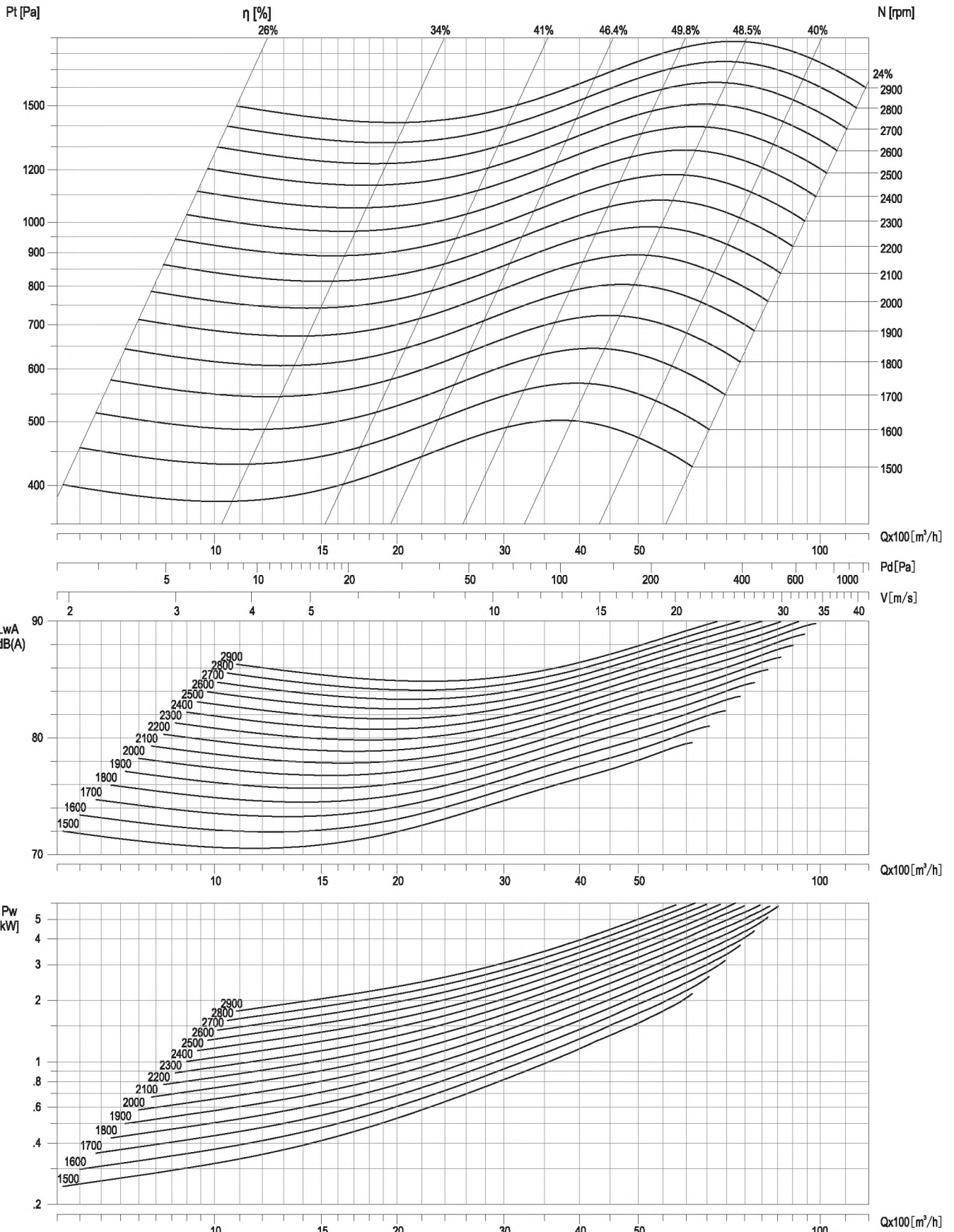


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE200 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TAE225

Air Density: 1.2 kg/m<sup>3</sup>

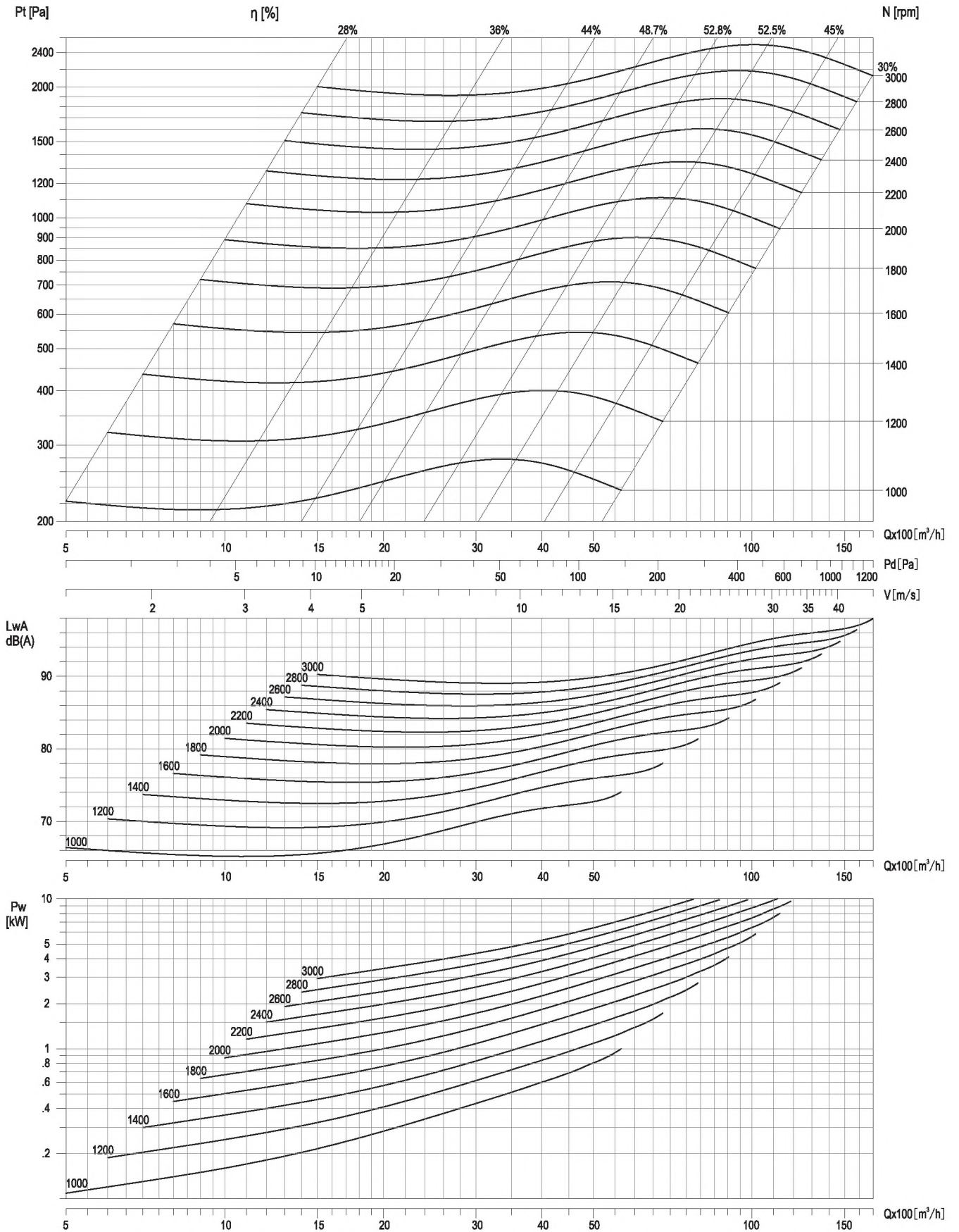


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE225 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TAE250

Air Density: 1.2 kg/m³

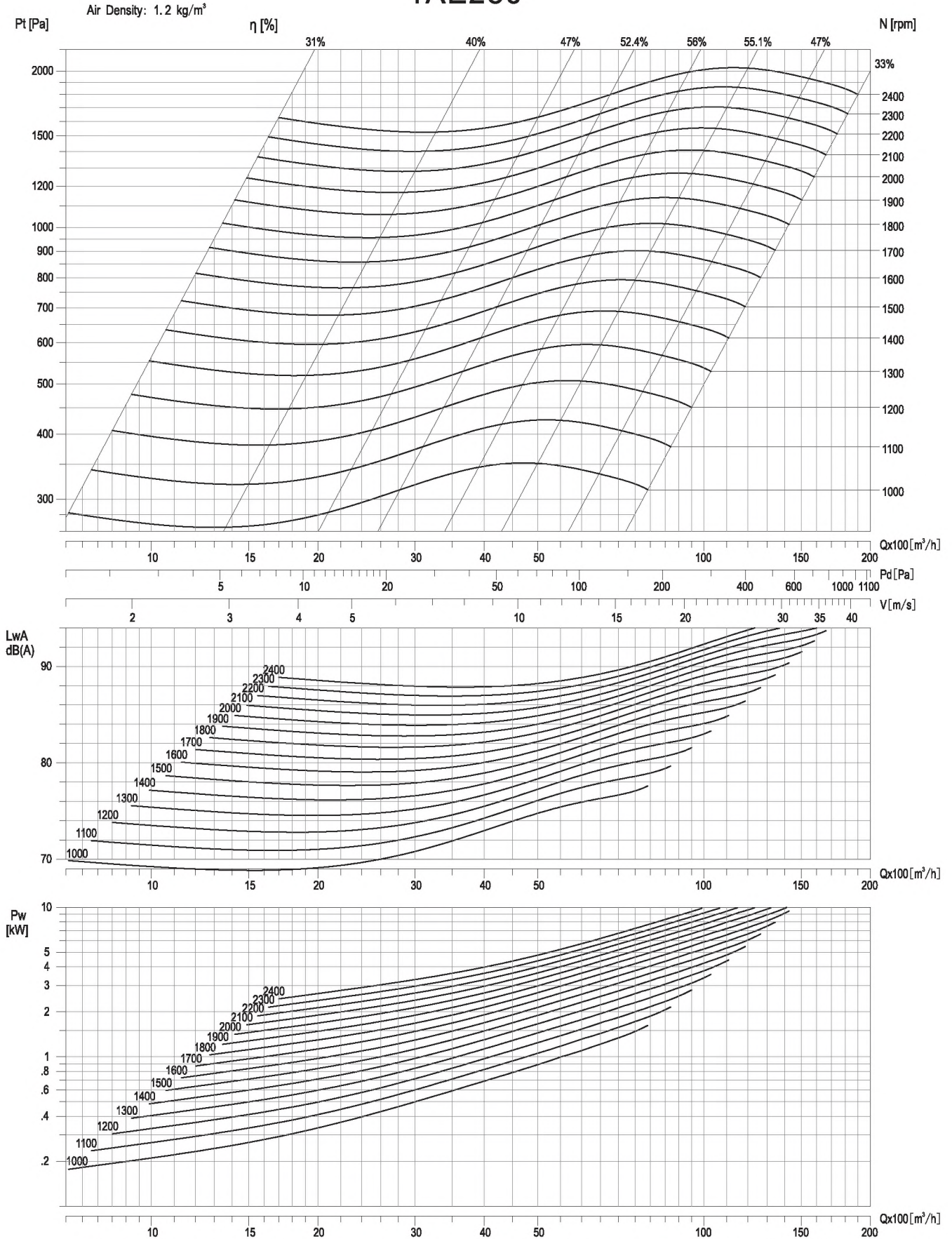


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE250 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.



# TAE280

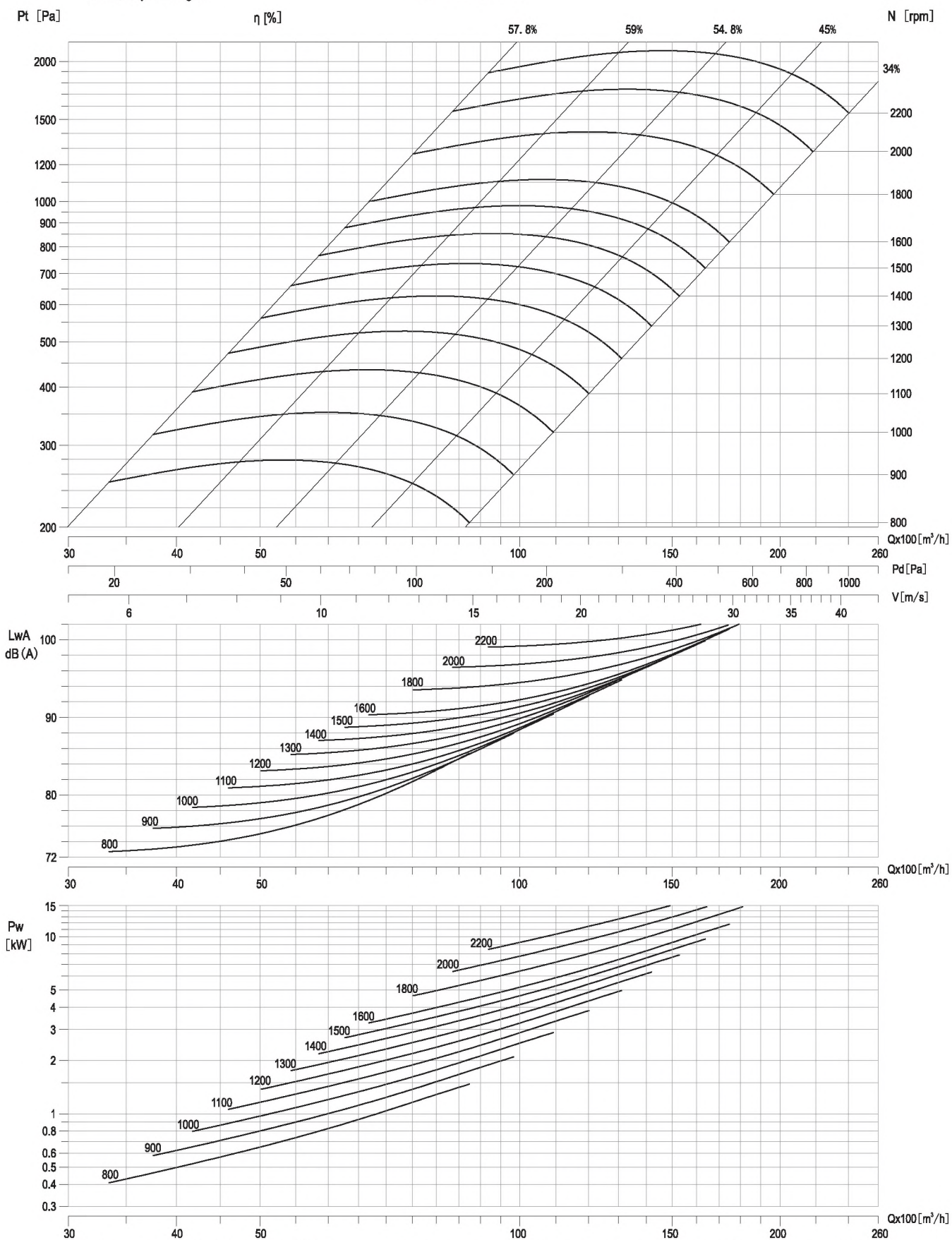


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE280 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TAE315

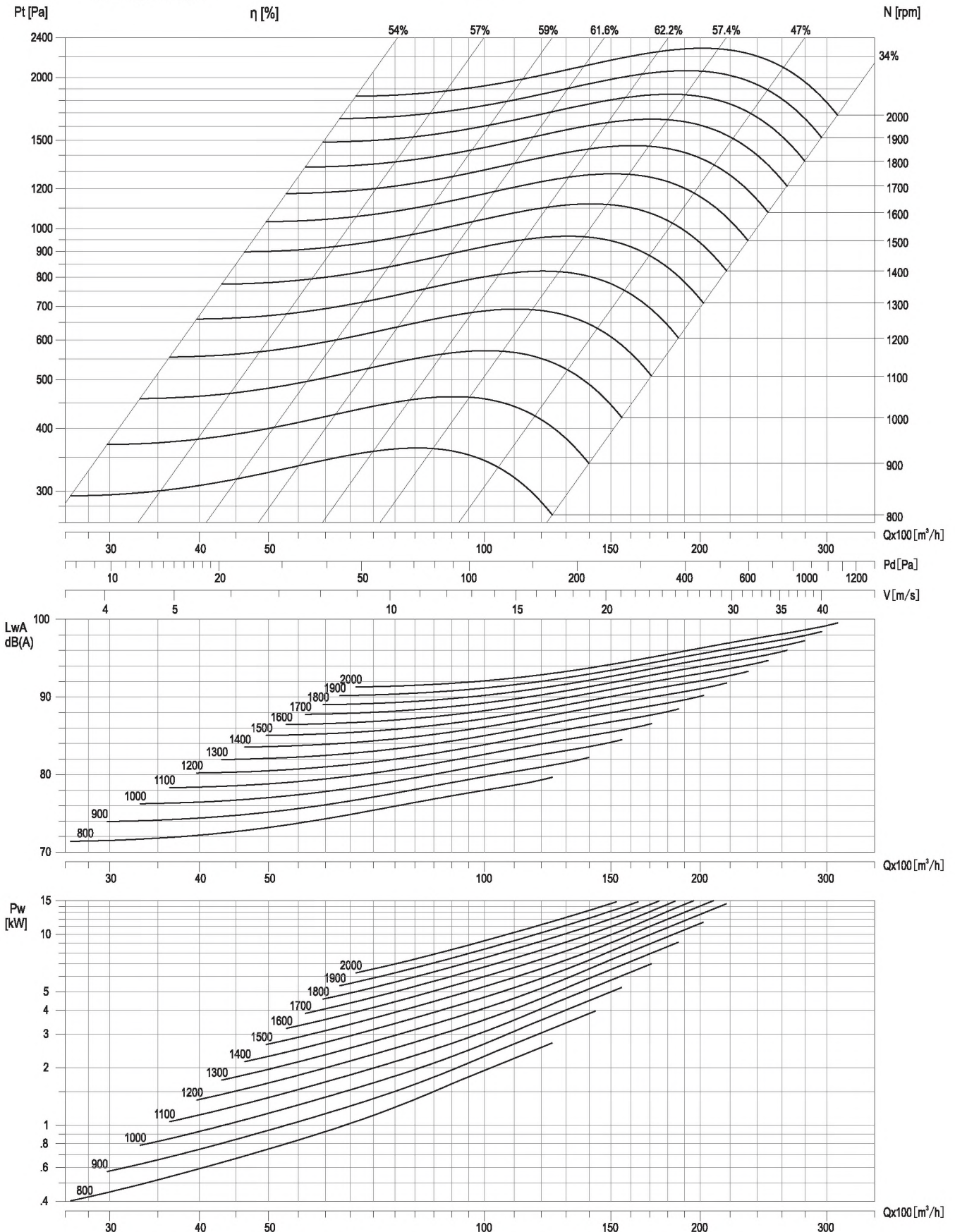
Air Density: 1.2 kg/m<sup>3</sup>



Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. 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.

# TAE355

Air Density: 1.2 kg/m<sup>3</sup>

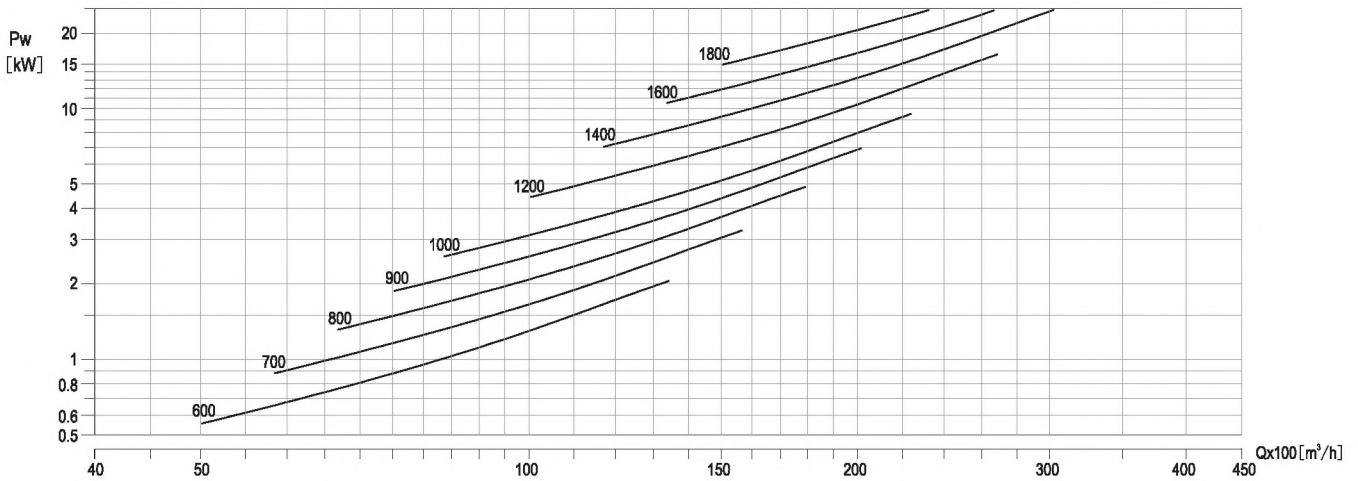
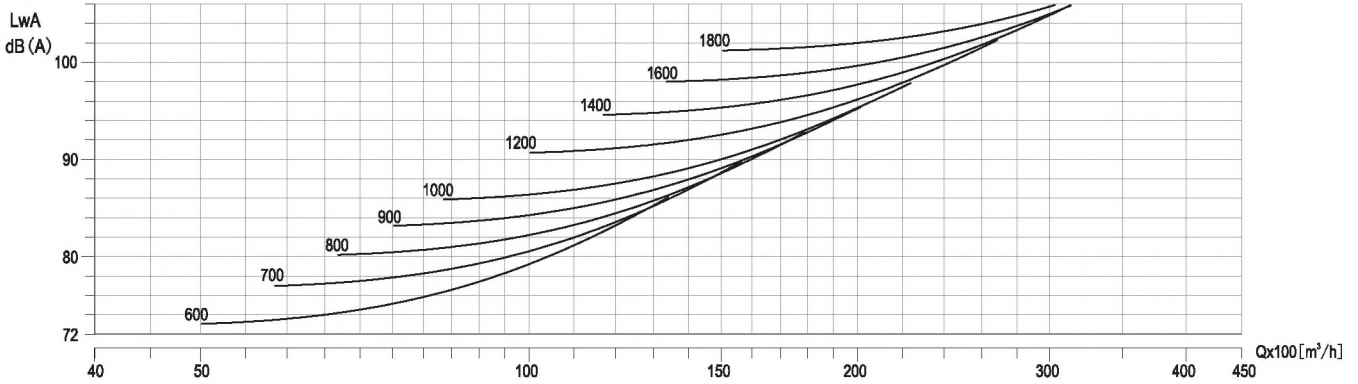
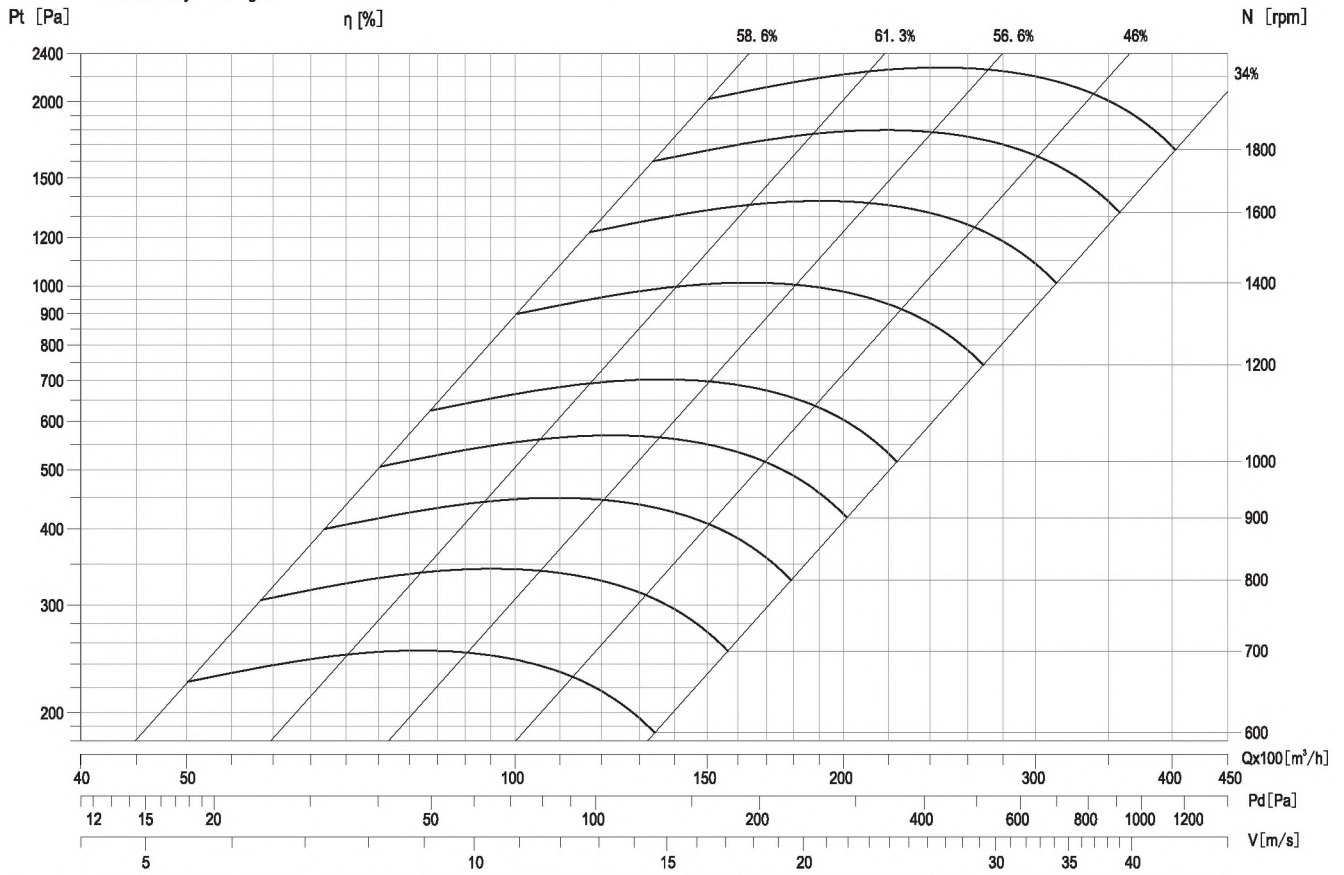


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE355 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TAE400

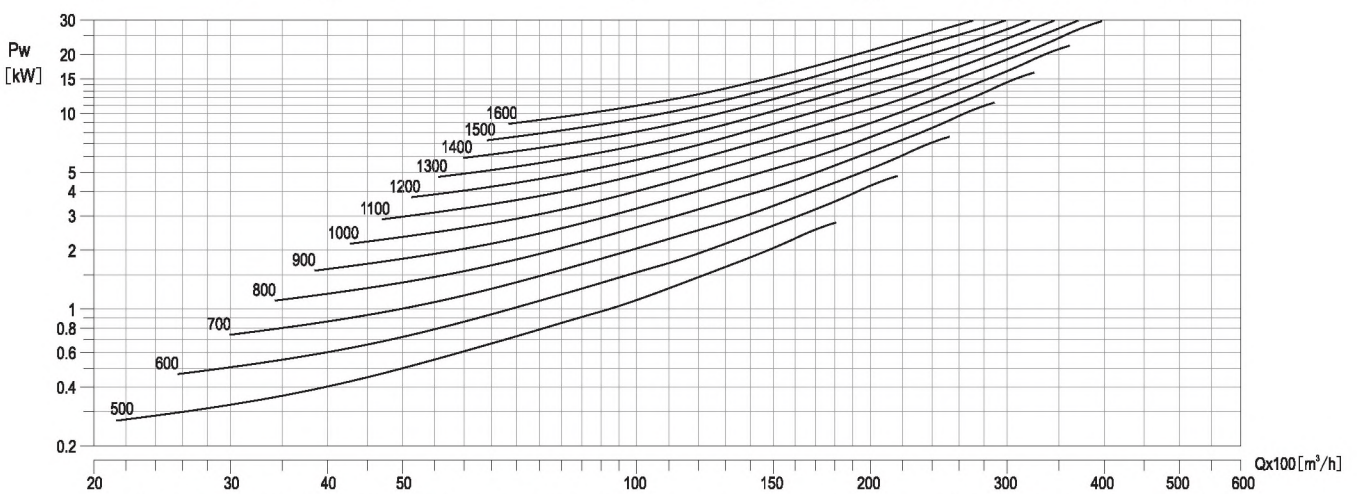
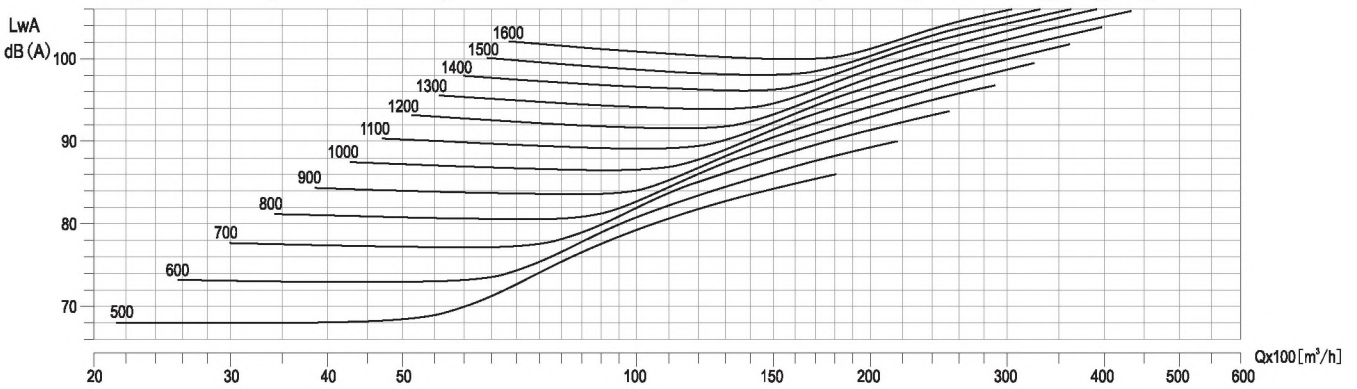
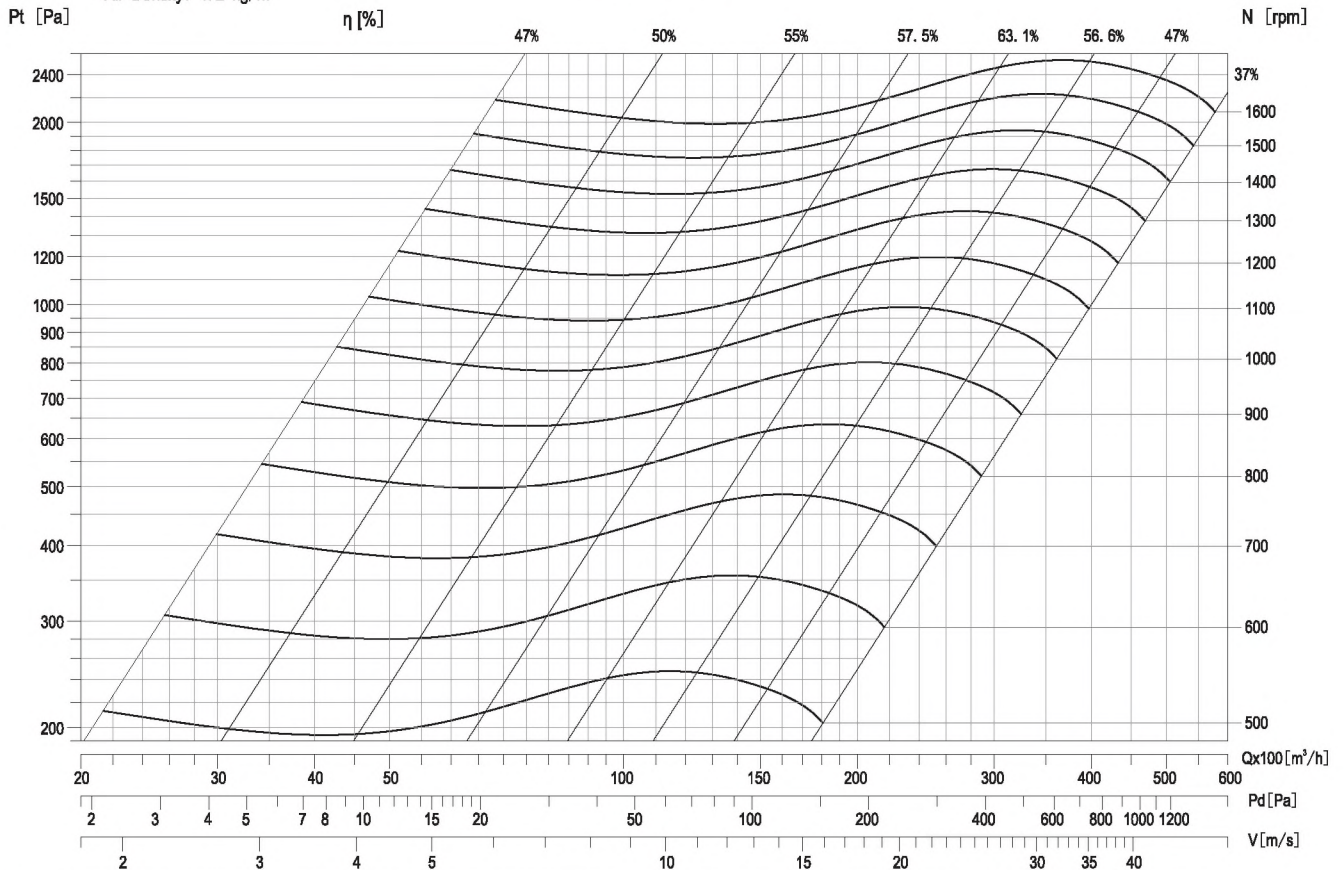
Air Density: 1.2 kg/m³



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

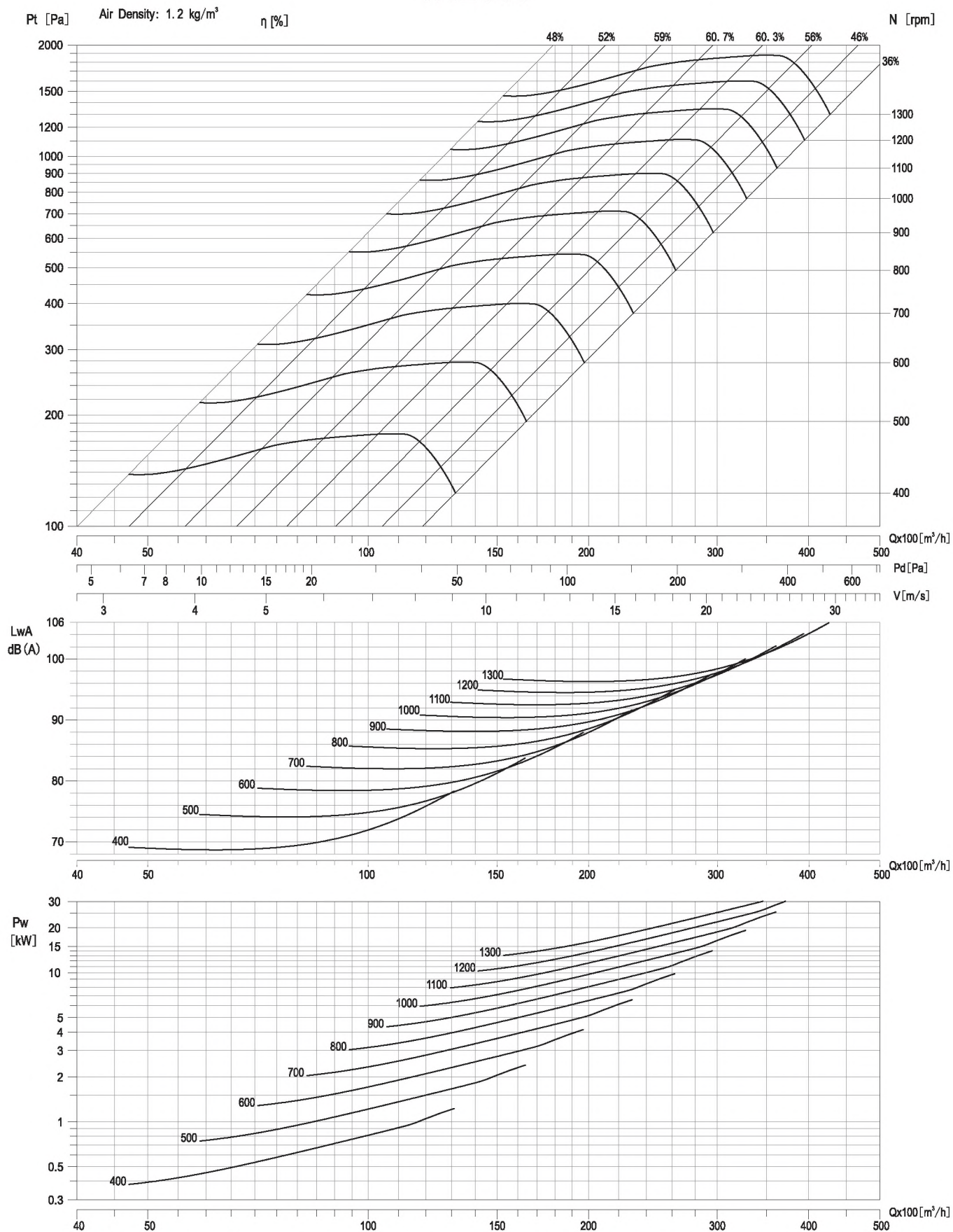
# TAE450

Air Density: 1.2 kg/m<sup>3</sup>



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

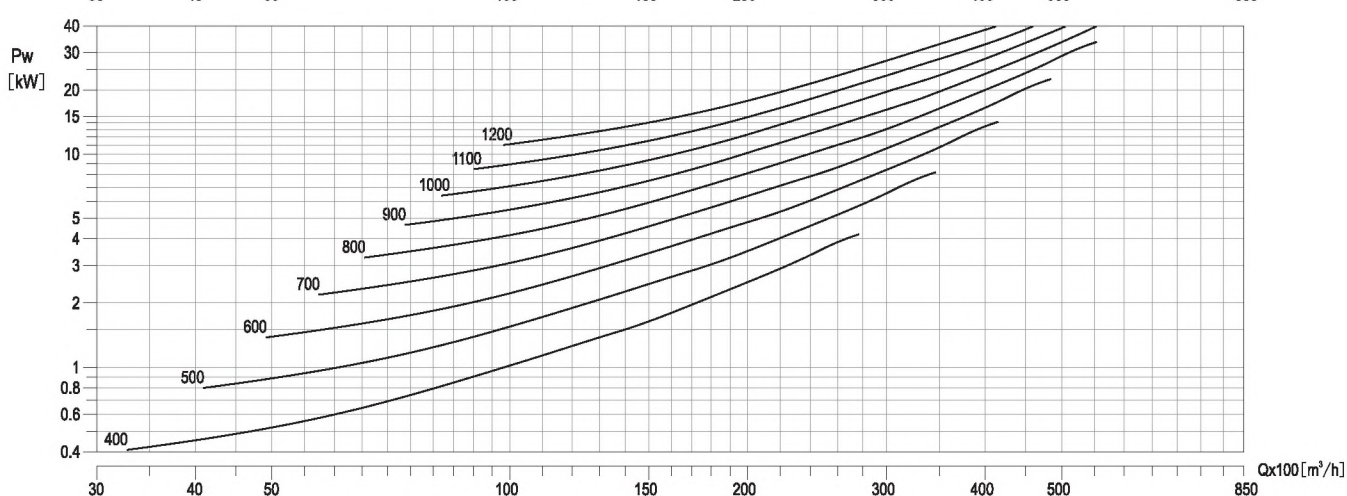
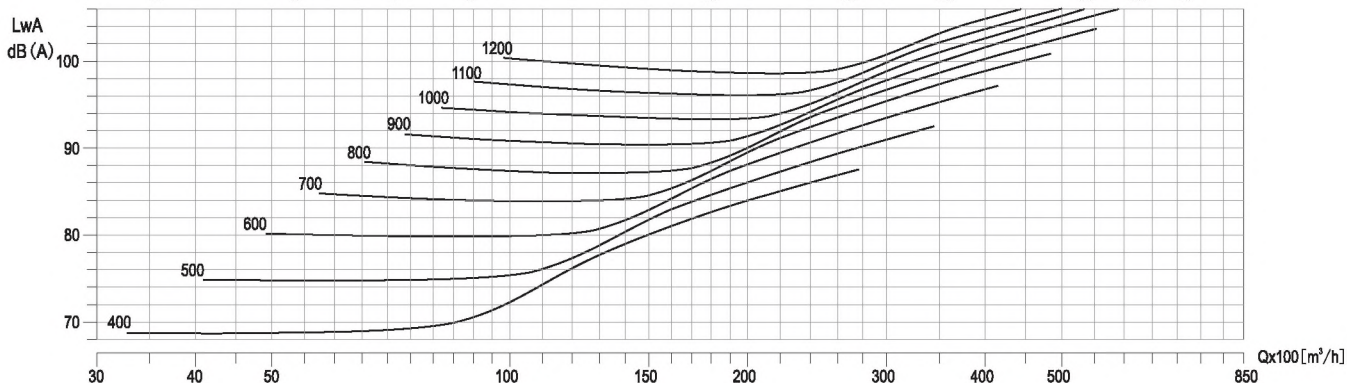
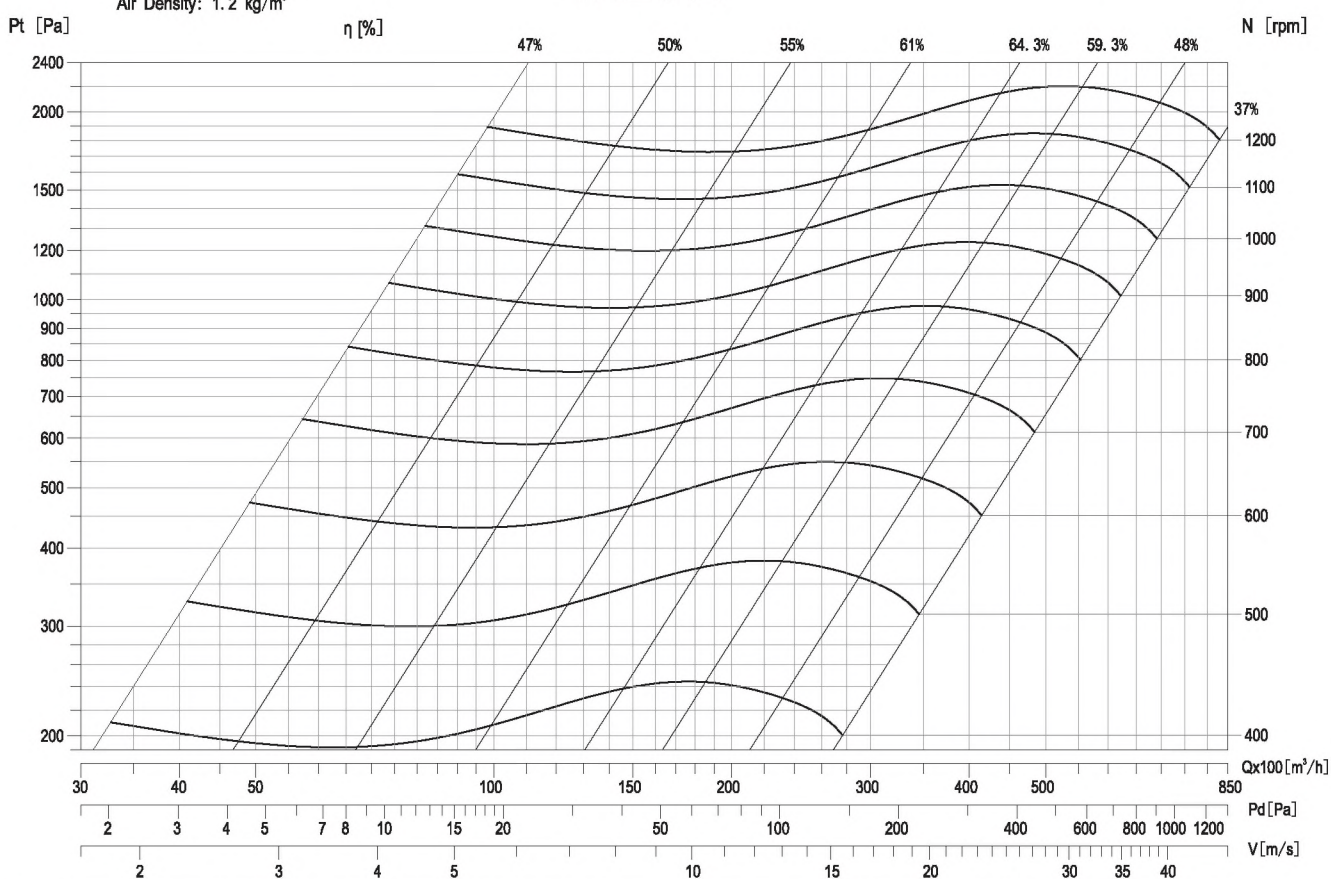
# TAE500



Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. 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.

# TAE560

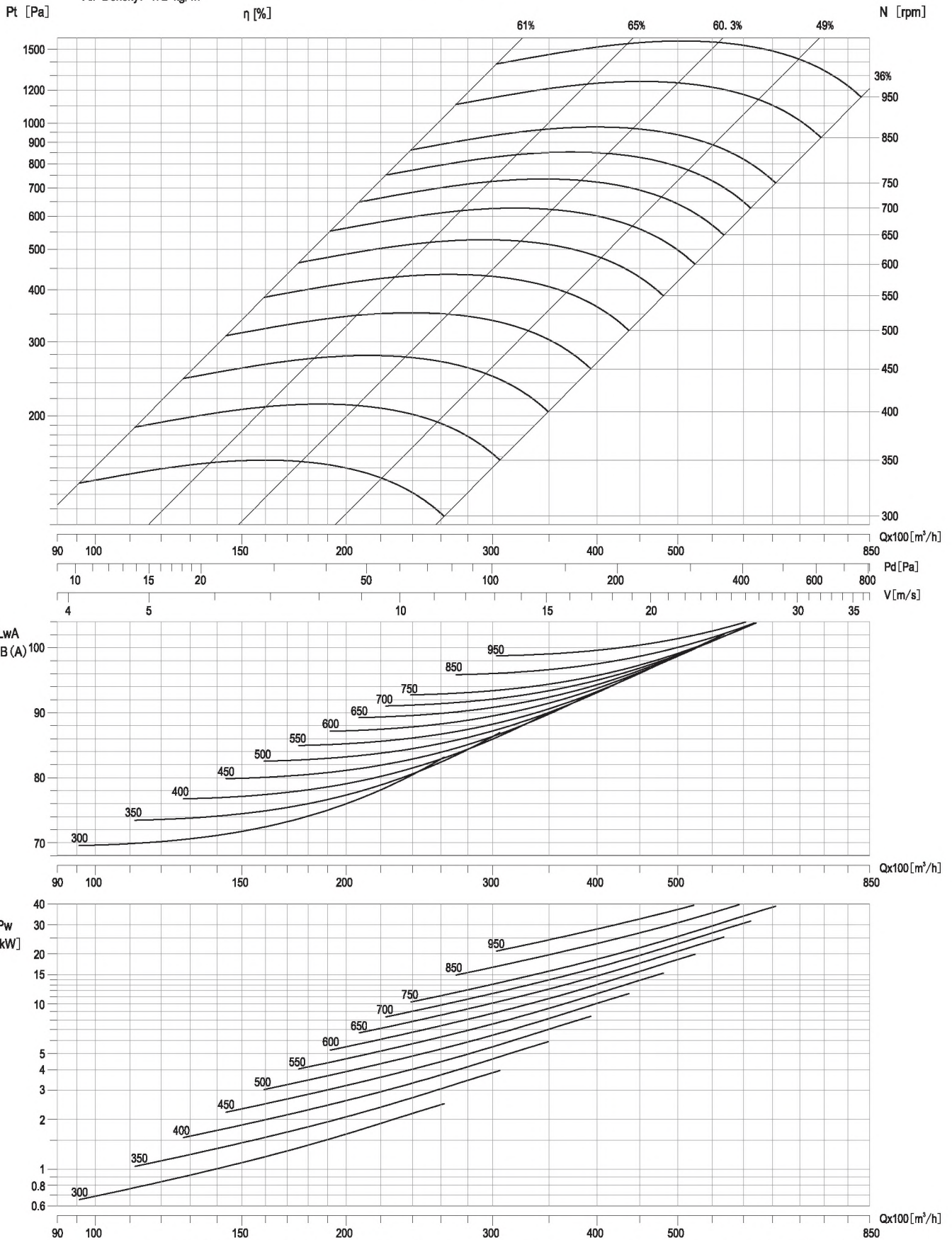
Air Density: 1.2 kg/m<sup>3</sup>



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

# TAE630

Air Density: 1.2 kg/m<sup>3</sup>

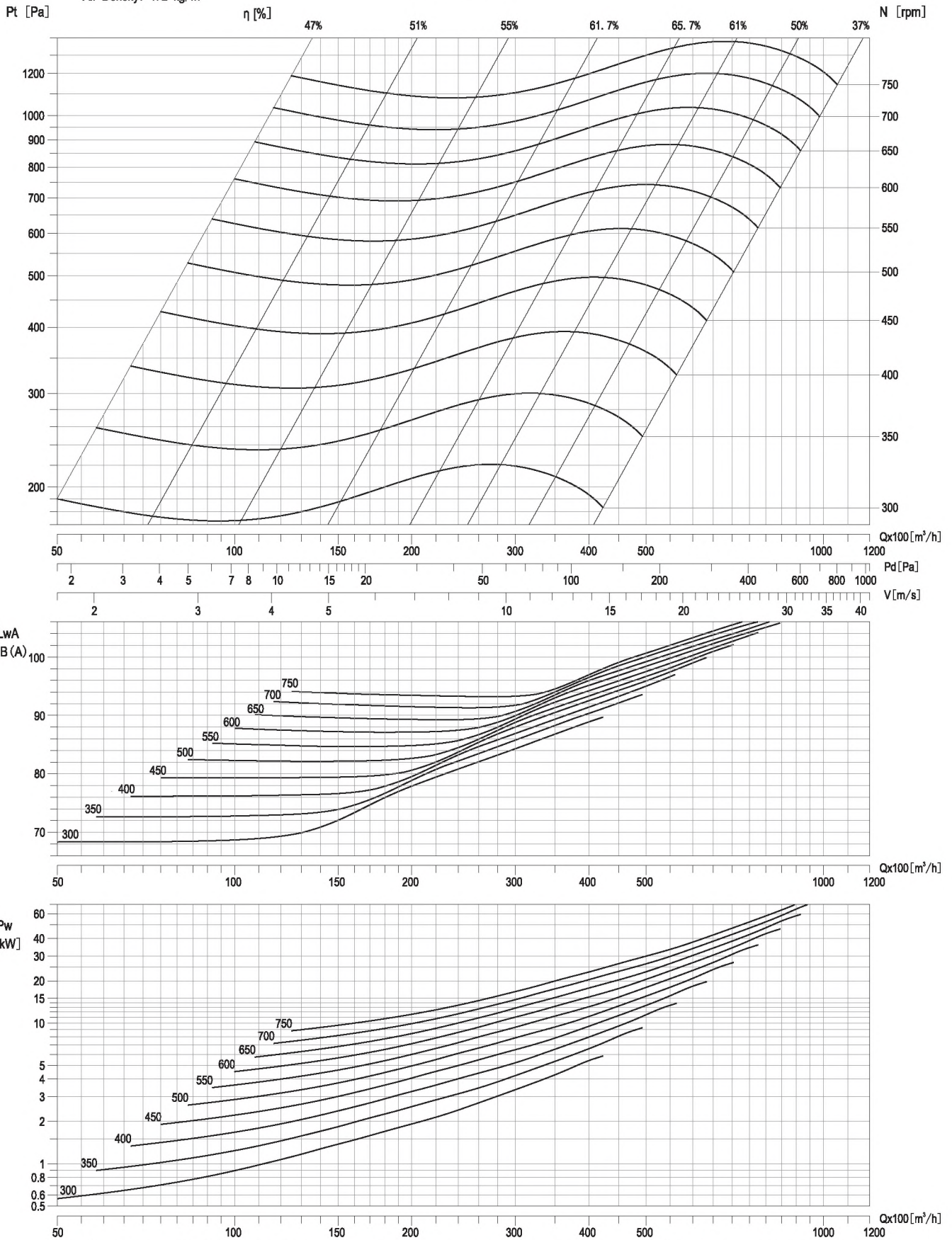


Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301.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



# TAE710

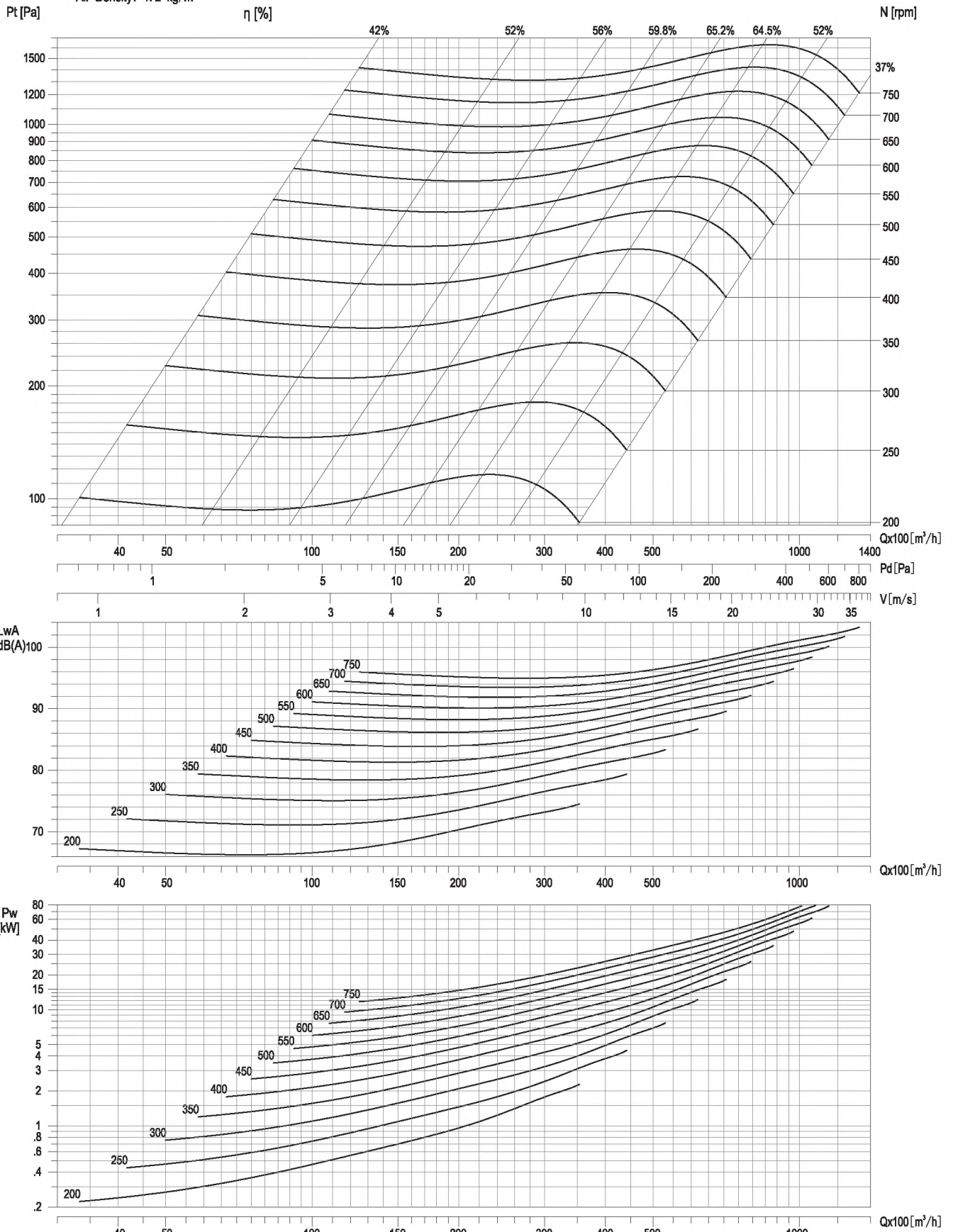
Air Density: 1.2 kg/m<sup>3</sup>



Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. 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.

# TAE800

Air Density: 1.2 kg/m<sup>3</sup>

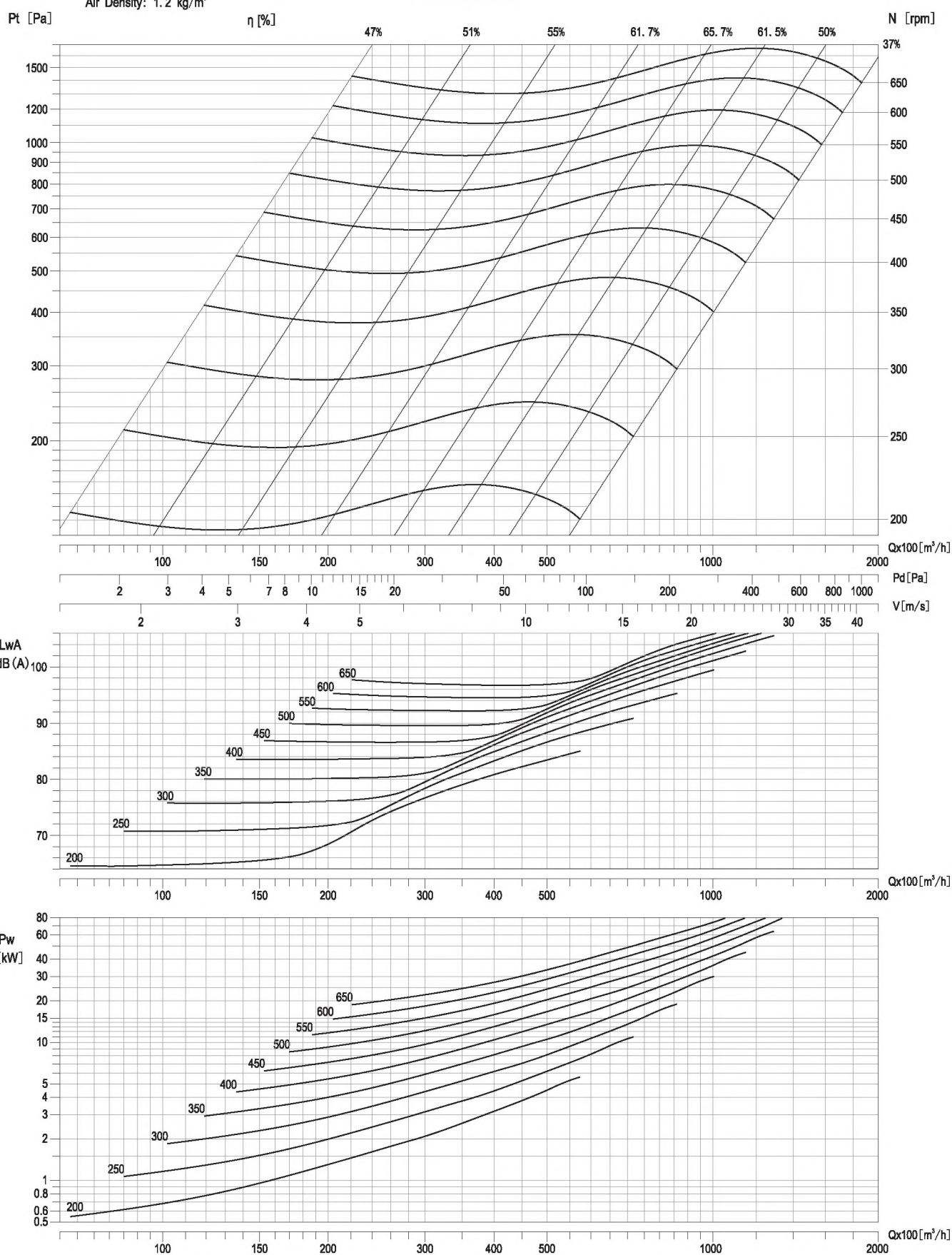


Performance shown is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. The A-weighted sound ratings shown have been calculated per AMCA International standard 301. Values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

MODEL TAE800 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

# TAE900

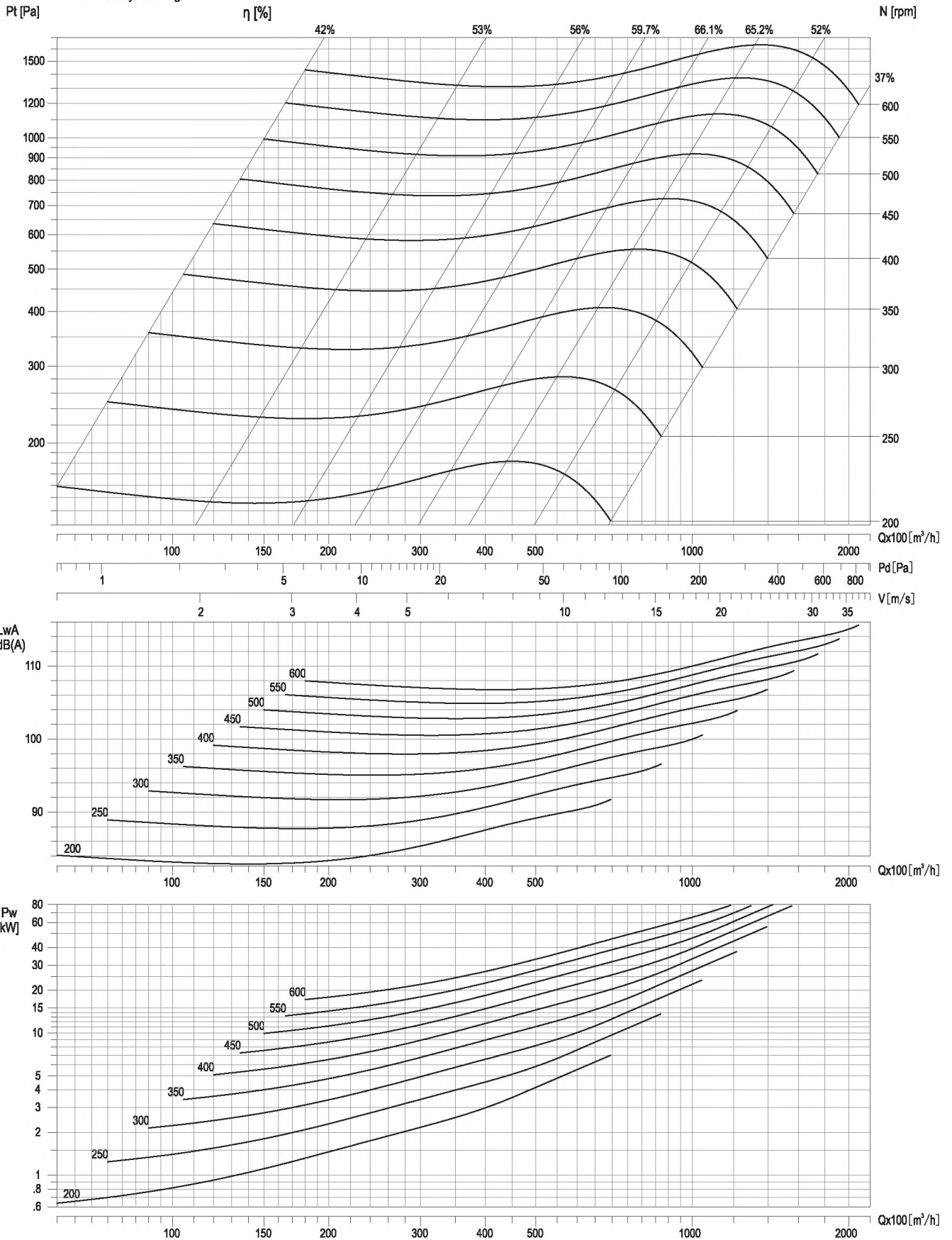
Air Density: 1.2 kg/m<sup>3</sup>



Performance certified is for installation type B-Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses. 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.

# TAE1000

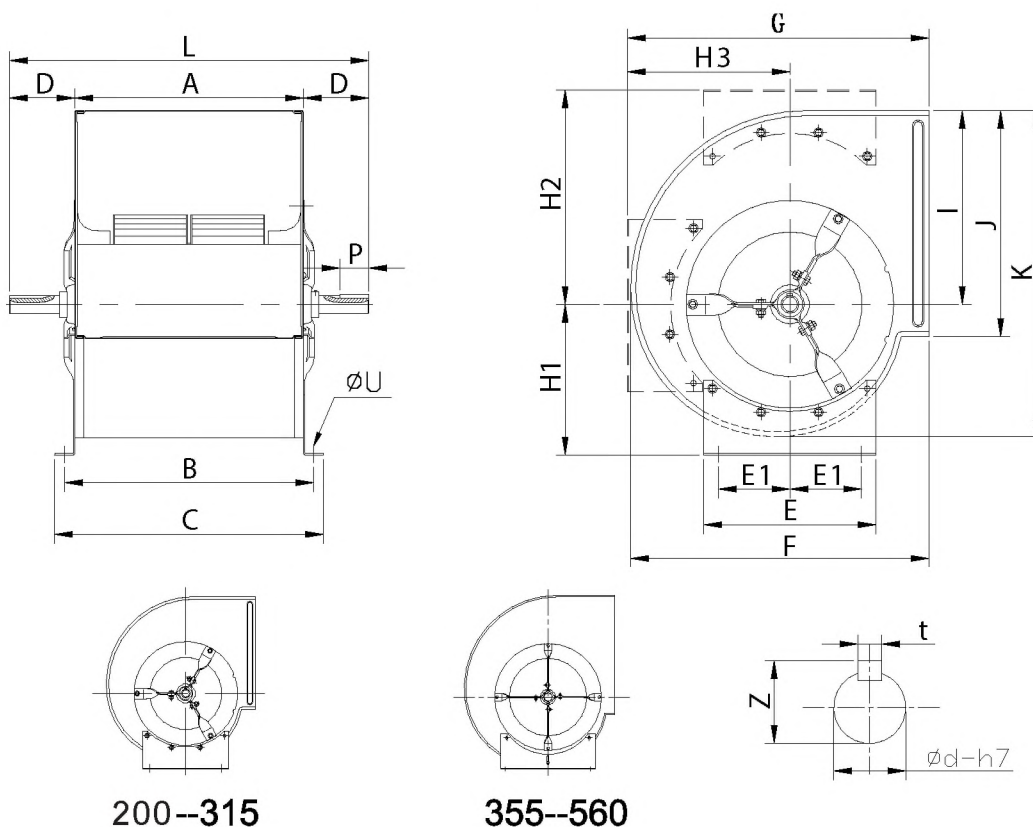
Air Density: 1.2 kg/m<sup>3</sup>



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

MODEL TAE1000 IS NOT LICENSED TO BEAR THE AMCA CERTIFIED RATINGS SEAL.

## TAE-D Dimension



200--315

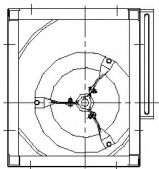
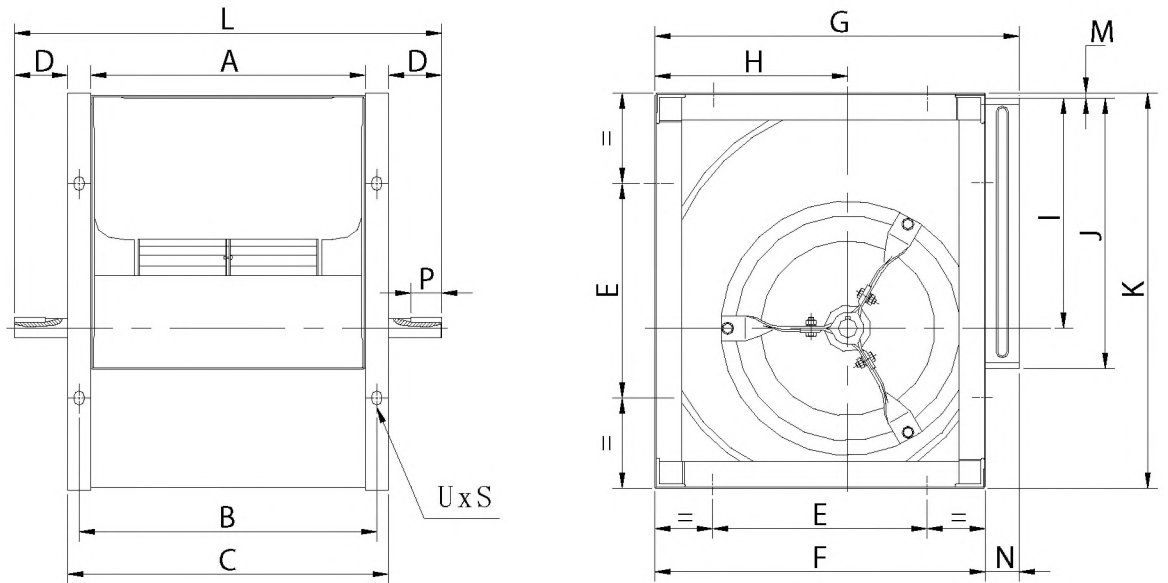
355--560

[mm]

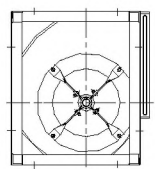
Model	A	B	C	D	E	E1	F	G	H1	H2	H3	I	J	K	L	Ød	t	Z	P	ØU
TAE200	252	277	302	82	240	112	342	348	181	245	184	218	249	366	416	20	6	22.8	32	8.5
TAE225	284	309	334	82	240	112	382	384	197	274	204	245	281	413	448	20	6	22.8	32	8.5
TAE250	319	344	369	82	240	112	417	421	210	299	227	271	315	456	483	20	6	22.8	32	8.5
TAE280	359	389	419	98	315	140	464	469	236	331	255	304	355	512	555	25	8	28.3	40	10
TAE315	404	434	464	98	315	140	517	519	261	370	283	342	400	575	600	25	8	28.3	40	10
TAE355	454	494	534	110	400	178	577	580	274	411	320	385	450	646	674	30	8	33.3	50	10
TAE400	504	544	584	110	400	178	646	653	306	466	363	433	504	729	724	30	8	33.3	50	10
TAE450	564	604	644	123	500	225	723	732	341	523	410	487	562	820	810	35	10	38.3	50	10
TAE500	635	675	715	133	500	225	796	800	375	568	448	543	632	909	901	35	10	38.3	63	10
TAE560	715	765	815	143	590	265	890	892	416	634	502	605	712	1001	1001	40	12	43.3	63	15

Note: Overall dimension tolerance arange 4mm .

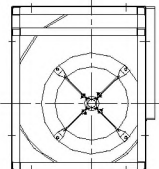
## TAE-K Dimension



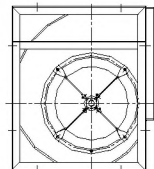
200-315



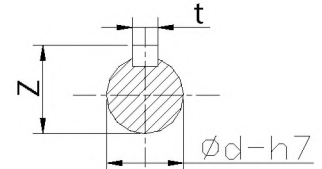
355-450



500



560

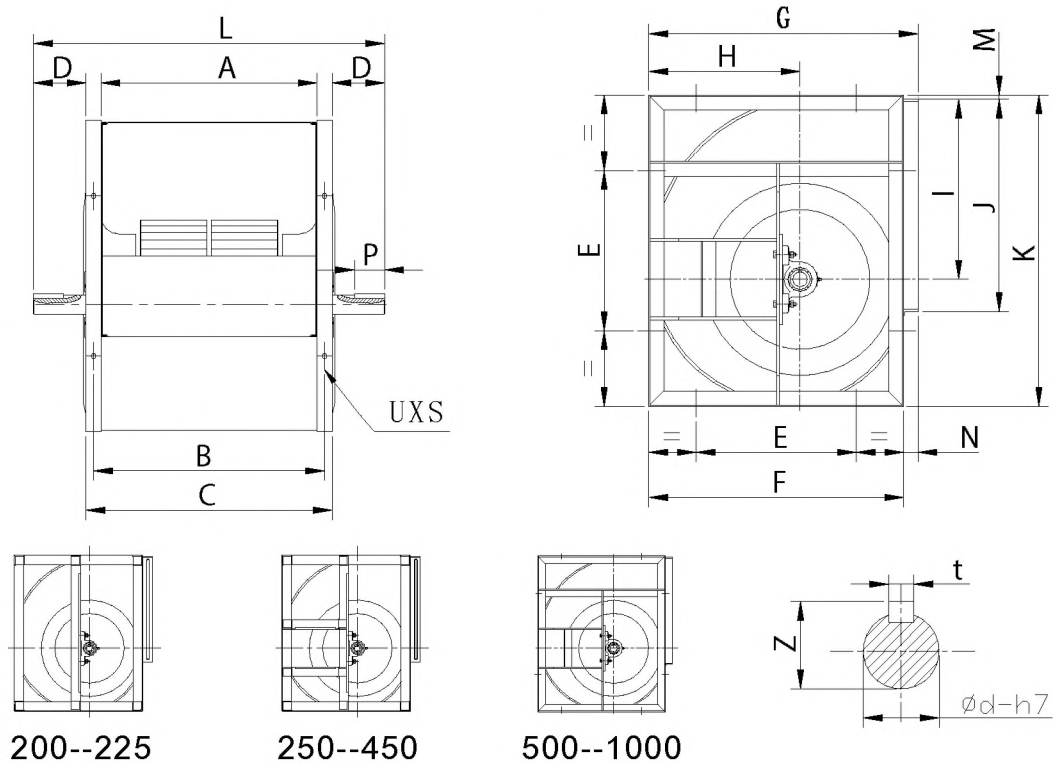


[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	∅d	t	Z	P	UXS
TAE200	252	287	322	47	200	310	347	183	218	249	375	416	4	37	20	6	22.8	32	11X16
TAE225	284	319	354	47	225	352	386	206	245	281	419	448	3	34	20	6	22.8	32	11X16
TAE250	319	344	369	57	224	383	418	224	271	315	460	483	3	35	20	6	22.8	32	11X16
TAE280	359	389	419	68	280	432	466	252	304	355	518	555	3	34	25	8	28.3	40	13X18
TAE315	404	434	464	68	280	480	518	282	342	400	578	600	1	38	25	8	28.3	40	13X18
TAE355	454	494	534	70	355	548	578	318	385	450	654	674	4	30	30	8	33.3	50	13X18
TAE400	504	544	584	70	355	612	650	360	433	504	736	724	4	38	30	8	33.3	50	13X18
TAE450	564	604	644	83	530	681	726	404	487	562	827	810	4	45	35	10	38.3	50	13X18
TAE500	635	675	715	93	530	750	800	448	543	632	918	901	2	50	35	10	38.3	63	13X18
TAE560	715	765	815	93	530	844	892	502	605	712	1030	1001	5	48	40	12	43.3	63	13X18
TAE630	805	855	905	100	530	945	1012	564	681	800	1157	1105	6	67	45	14	48.8	80	13X18
TAE710	905	955	1005	100	630	1057	1134	636	767	902	1302	1205	7	77	50	14	53.8	80	17X22

Note: Overall dimension tolerance arange 4mm .

## TAE-H Dimension

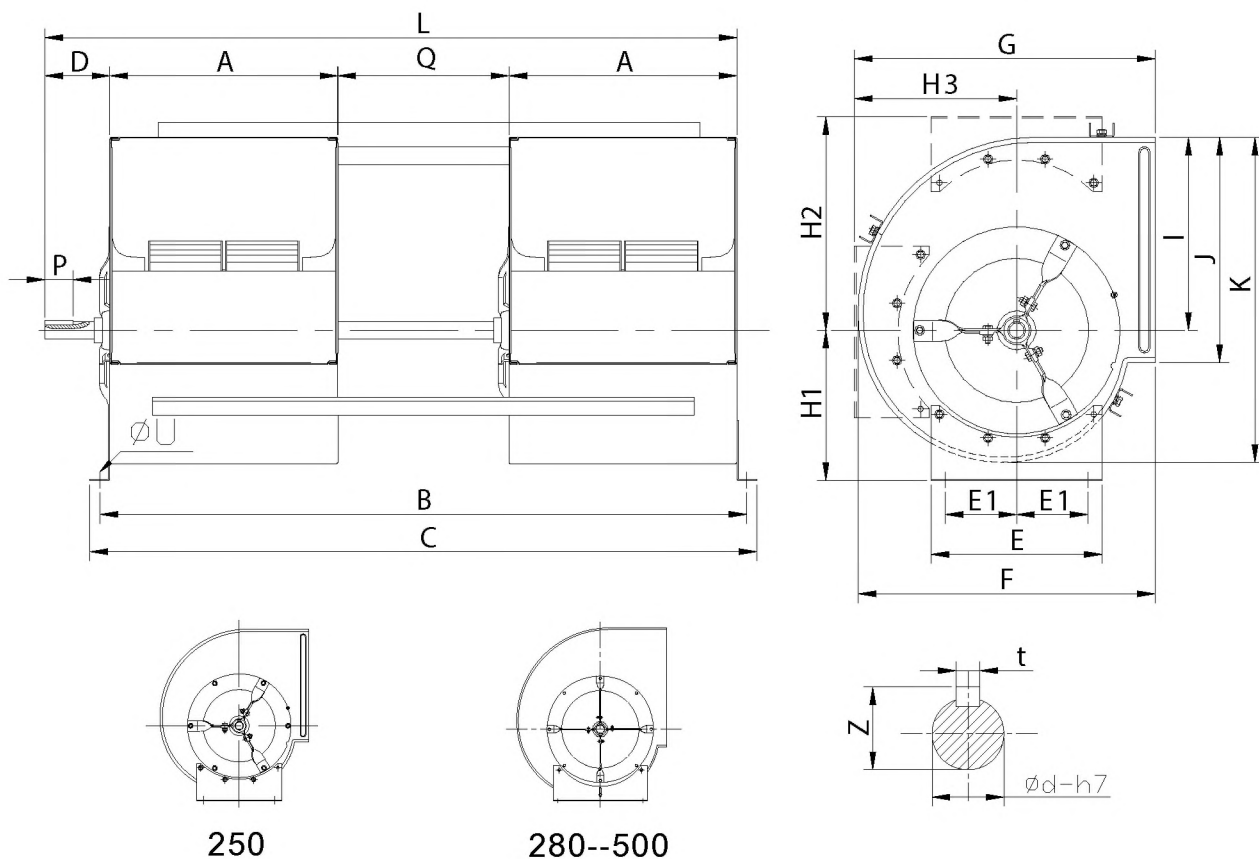


[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Ød	t	Z	P	UXS
TAE200	252	287	322	57	200	310	347	183	218	249	375	436	4	37	20	6	22.8	32	11X16
TAE225	284	319	354	55	225	352	386	206	245	281	419	464	3	34	20	6	22.8	32	11X16
TAE250	319	344	369	83	224	383	418	224	271	315	460	535	3	35	25	8	28.3	40	11X16
TAE280	359	389	419	84	280	432	466	252	304	355	518	587	3	34	30	8	33.3	40	13X18
TAE315	404	434	464	84	280	480	518	282	342	400	578	632	1	38	30	8	33.3	40	13X18
TAE355	454	494	534	93	355	548	578	318	385	450	654	720	4	30	35	10	38.3	50	13X18
TAE400	504	544	584	93	355	612	650	360	433	504	736	770	4	38	35	10	38.3	50	13X18
TAE450	564	604	644	115	530	681	726	404	487	562	827	874	4	45	40	12	43.3	63	13X18
TAE500	635	675	735	103	530	750	800	448	543	632	918	940	2	50	40	12	43.3	63	13X18
TAE560	715	765	815	133	530	844	892	502	605	712	1030	1081	5	48	50	14	53.8	80	13X18
TAE630	805	855	905	133	530	945	1012	564	681	800	1157	1171	6	67	50	14	53.8	80	13X18
TAE710	905	955	1005	141	630	1057	1134	636	767	902	1302	1287	7	77	60	18	64.4	80	17X22
TAE800	1007	1057	1107	141	710	1180	1272	714	864	1003	1468	1389	7	92	60	18	64.4	90	17X22
TAE900	1127	1187	1247	159	800	1319	1427	804	972	1120	1648	1570	7	108	60	18	64.4	110	17X22
TAE1000	1257	1317	1377	159	900	1450	1559	884	1068	1250	1810	1700	9	109	60	18	64.4	110	17X22

Note: Overall dimension tolerance arange 4mm .

## TAE-2D Dimension



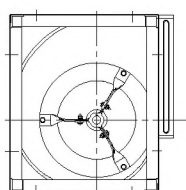
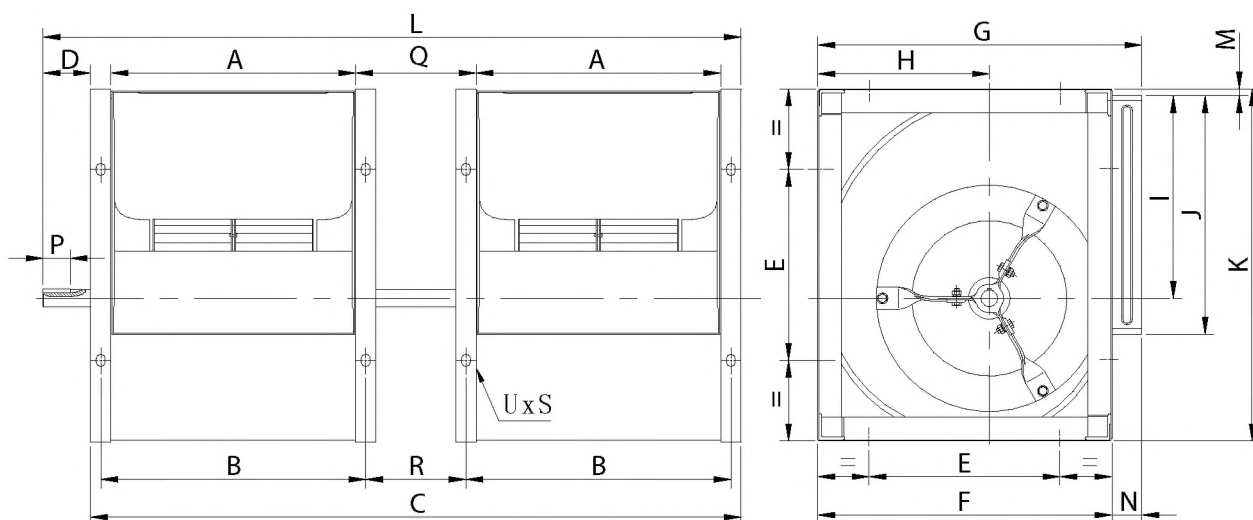
[mm]

Model	A	B	C	D	E	E1	F	G	H1	H2	H3	I	J	K	L	Q	Ød	t	Z	P	ØU
TAE250	319	913	938	100	240	112	417	421	210	299	227	271	315	456	988	250	25	8	28.3	32	8.5
TAE280	359	1028	1058	110	315	140	464	469	236	331	255	304	355	512	1108	280	30	8	33.3	40	10
TAE315	404	1153	1183	110	315	140	517	519	261	370	283	342	400	575	1233	315	30	8	33.3	40	10
TAE355	454	1303	1343	130	400	178	577	580	274	411	320	385	450	646	1393	355	35	10	38.3	63	10
TAE400	504	1448	1488	130	400	178	646	653	306	466	363	433	504	729	1538	400	35	10	38.3	63	10
TAE450	564	1618	1658	140	500	225	723	732	341	523	410	487	562	820	1718	450	40	12	43.3	63	10
TAE500	635	1810	1850	140	500	225	796	800	375	568	448	543	632	909	1910	500	40	12	43.3	63	10

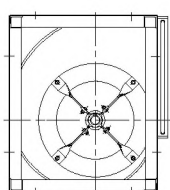
Note: Overall dimension tolerance arange 4mm .



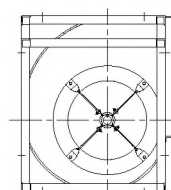
## TAE-2K Dimension



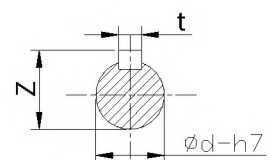
250



280--450



500

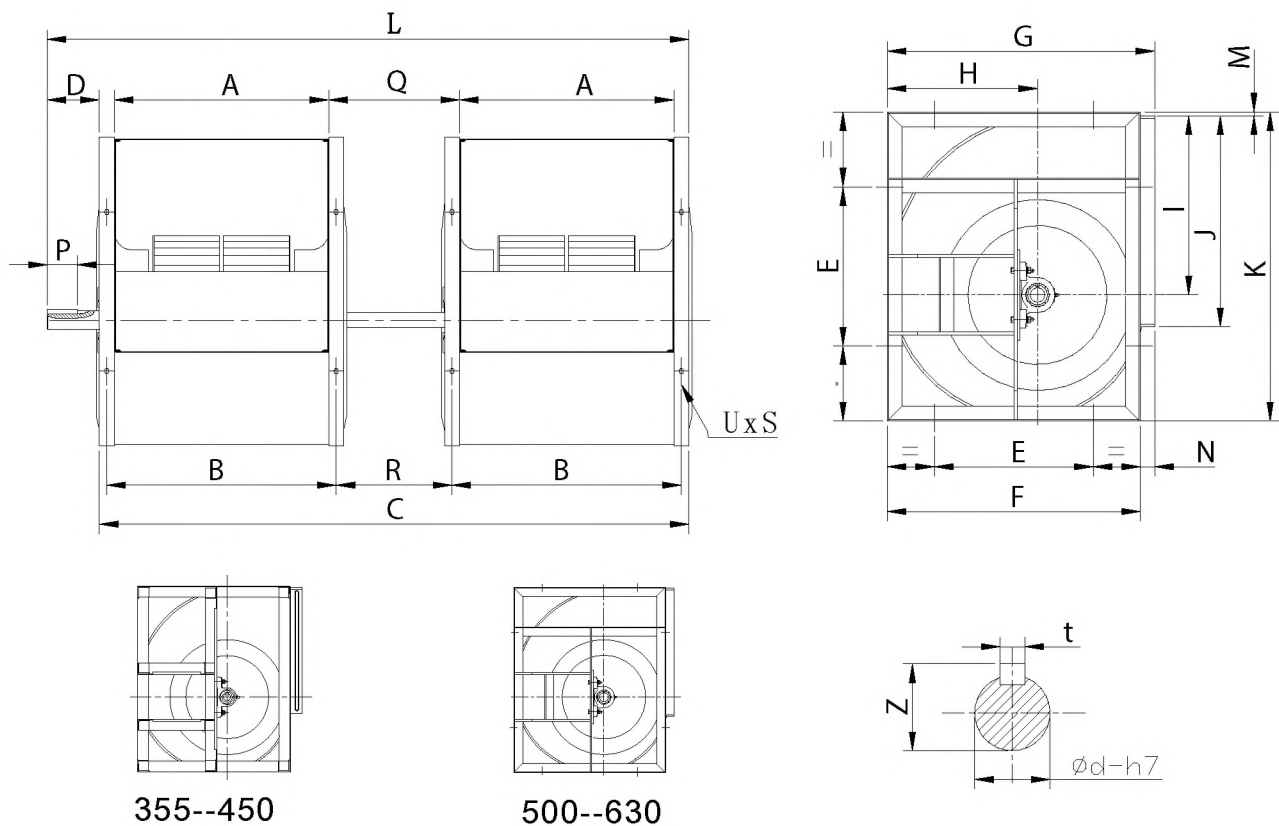


[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Q	R	$\phi d$	t	Z	P	UXS
TAE250	319	344	938	75	224	383	418	224	271	315	460	1013	3	35	250	225	25	8	28.3	32	11X16
TAE280	359	389	1058	80	280	432	466	252	304	355	518	1138	3	34	280	250	30	8	33.3	40	13X18
TAE315	404	434	1183	80	280	480	518	282	342	400	578	1263	1	38	315	285	30	8	33.3	40	13X18
TAE355	454	494	1343	90	355	548	578	318	385	450	654	1433	4	30	355	315	35	10	38.3	63	13X18
TAE400	504	544	1488	90	355	612	650	360	433	504	736	1578	4	38	400	360	35	10	38.3	63	13X18
TAE450	564	604	1658	100	530	681	726	404	487	562	827	1758	4	45	450	410	40	12	43.3	63	13X18
TAE500	635	675	1850	100	530	750	800	448	543	632	918	1950	2	50	500	460	40	12	43.3	63	13X18

Note: Overall dimension tolerance arange 4mm .

## TAE-2H Dimension



[mm]

Model	A	B	C	D	E	F	G	H	I	J	K	M	N	L	Q	R	$\varnothing d$	t	Z	P	UXS
TAE355	454	494	1343	110	355	548	578	318	385	450	654	4	30	1453	355	315	40	12	43.3	63	13X18
TAE400	504	544	1488	110	355	612	650	360	433	504	736	4	38	1598	400	360	40	12	43.3	63	13X18
TAE450	564	604	1658	135	530	681	726	404	487	562	827	4	45	1793	450	410	45	14	48.8	63	13X18
TAE500	635	675	1870	135	530	750	800	448	543	632	918	2	50	2005	500	460	50	14	53.8	80	13X18
TAE560	715	765	2090	140	530	844	892	502	605	712	1030	5	48	2230	560	510	50	14	53.8	80	13X18
TAE630	805	855	2340	140	530	945	1012	564	681	800	1157	6	67	2480	630	580	55	16	59.3	90	13X18

Note: Overall dimension tolerance arange 4mm .

## TAE-D Overall dimension

		0				90°				180			
LG													
RD													
Model	Motor Frame Size	D	L	W	H	D	L	W	H	D	L	W	H
200	63	364	620	442	441	317	660	442	406.5	344	620	442	446.5
	71	380	660	442	441	335	700	442	406.5	362	660	442	446.5
	80	398	700	442	441	355	740	442	406.5	383	700	442	446.5
	90	419	740	442	441	378	780	442	406.5	406	740	442	446.5
	100	441	780	442	441	401	820	442	406.5	430	780	442	446.5
225	112	467	860	442	441	430	860	442	406.5	459	860	442	446.5
	63	396	660	474	490	338	700	474	442	370	660	474	490
	71	411	700	474	490	355	740	474	442	387	700	474	490
	80	429	740	474	490	375	780	474	442	407	740	474	490
	90	449	780	474	490	397	820	474	442	430	780	474	490
250	100	470	820	474	490	420	860	474	442	454	820	474	490
	112	495	860	474	490	448	920	474	442	482	860	474	490
	71	442	740	509	533	378	780	509	481	412	740	509	529
	80	458	780	509	533	397	820	509	481	431	780	509	529
	90	478	820	509	533	418	860	509	481	454	820	509	529
280	100	498	860	509	533	441	920	509	481	477	860	509	529
	112	523	920	509	533	468	960	509	481	505	920	509	529
	71	481	780	581	586	410	820	581	526	445	780	581	587
	80	497	820	581	586	428	860	581	526	465	820	581	587
	90	516	860	581	586	449	920	581	526	487	860	581	587
315	100	535	920	581	586	470	960	581	526	509	920	581	587
	112	559	960	581	586	497	1020	581	526	537	960	581	587
	132	601	1060	581	586	542	1100	581	526	584	1060	581	587
	71	526	820	626	644	444	920	626	577	481	820	626	650
	80	541	860	626	644	462	940	626	577	500	860	626	650
355	90	559	920	626	644	482	980	626	577	522	920	626	650
	100	578	960	626	644	503	1020	626	577	544	960	626	650
	112	601	1020	626	644	528	1100	626	577	571	1020	626	650
	132	641	1100	626	644	573	1180	626	577	616	1100	626	650
	71	578	920	700	638	448	960	700	721	520	920	700	706
400	80	592	940	700	638	503	1020	700	721	538	940	700	706
	90	610	980	700	638	522	1060	700	721	560	980	700	706
	100	628	1020	700	638	542	1100	700	721	582	1020	700	706
	112	650	1100	700	638	566	1180	700	721	608	1100	700	706
	132	689	1180	700	638	609	1250	700	721	654	1180	700	706
450	71	637	960	750	707	531	1060	750	804.5	565	960	750	782
	80	651	1020	750	707	547	1100	750	804.5	583	1020	750	782
	90	667	1060	750	707	565	1140	750	804.5	604	1060	750	782
	90	667	1060	750	707	565	1140	750	804.5	583	1020	750	782
	100	684	1100	750	707	585	1180	750	804.5	625	1100	750	782
	112	706	1180	750	707	608	1250	750	804.5	652	1180	750	782
	132	743	1250	750	707	650	1300	750	804.5	696	1250	750	782
500	160	798	1350	750	707	710	1450	750	804.5	761	1350	750	782
	71	707	1060	826	900.5	588	1140	826	787	620	1060	826	873
	80	720	1100	826	900.5	603	1180	826	787	638	1100	826	873
	90	736	1140	826	900.5	620	1200	826	787	658	1140	826	873
	100	752	1180	826	900.5	39	1250	826	787	679	1180	826	873
	112	772	1250	826	900.5	661	1300	826	787	704	1250	826	873
	132	808	1300	826	900.5	701	1400	826	787	748	1300	826	873
560	160	861	1450	826	900.5	759	1550	826	787	811	1450	826	873
	80	777	1160	946	995	651	1250	946	870	687	1160	946	976
	90	793	1200	946	995	668	1300	946	870	707	1200	946	976
	100	808	1250	946	995	686	1350	946	870	728	1250	946	976
	112	828	1300	946	995	708	1400	946	870	753	1300	946	976
	132	863	1400	946	995	747	1500	946	870	796	1400	946	976
560	160	915	1500	946	995	804	1650	946	870	858	1500	946	976
	80	859	1250	1026	1105	717	1400	1026	964	752	1250	1026	1079
	90	874	1300	1026	1105	734	1450	1026	964	772	1300	1026	1079
	100	889	1400	1026	1105	751	1500	1026	964	792	1350	1026	1079
	112	908	1500	1026	1105	772	1550	1026	964	817	1400	1026	1079
	132	942	1500	1026	1105	809	1600	1026	964	859	1500	1026	1079
160	991	1600	1026	1105	864	1750	1026	964	919	1600	1026	1079	

		0				90°				180			
LG													
RD													
Model	Motor FrameSize	D	L	W	H	D	L	W	H	D	L	W	H
250	71	433	740	509	500	381	780	509	470	408	740	509	500
	80	451	780	509	500	400	820	509	470	429	780	509	500
	90	472	820	509	500	422	860	509	470	452	820	509	500
	100	493	860	509	500	444	920	509	470	476	860	509	500
	112	519	920	509	500	472	960	509	470	505	920	509	500
280	71	472	780	581	558	413	820	581	516	441	780	581	558
	80	489	820	581	558	432	860	581	516	461	820	581	558
	90	509	860	581	558	453	920	581	516	484	860	581	558
	100	529	920	581	558	474	960	581	516	507	920	581	558
	112	554	960	581	558	501	1020	581	516	535	960	581	558
315	132	597	1060	581	558	547	1100	581	516	583	1060	581	558
	71	515	820	626	618	447	920	626	568	476	820	626	618
	80	531	860	626	618	464	940	626	568	496	860	626	618
	90	550	920	626	618	484	980	626	568	518	920	626	618
	100	569	960	626	618	505	1020	626	568	540	960	626	618
355	112	594	1020	626	618	531	1060	626	568	568	1020	626	618
	132	635	1100	626	618	576	1180	626	568	615	1100	626	618
	71	568	920	700	694	489	960	700	629	519	920	700	694
	80	584	940	700	694	505	1020	700	629	538	940	700	694
	90	602	980	700	694	525	1060	700	629	560	980	700	694
400	100	620	1020	700	694	545	1100	700	629	582	1020	700	694
	112	643	1100	700	694	570	1140	700	629	609	1100	700	694
	132	683	1180	700	694	613	1250	700	629	655	1180	700	776
	71	629	960	750	776	538	1060	750	701	569	960	750	776
	80	643	1020	750	776	554	1100	750	701	588	1020	750	776
450	90	661	1060	750	776	572	1140	750	701	609	1060	750	776
	100	678	1100	750	776	591	1180	750	701	630	1100	750	776
	112	701	1180	750	776	615	1250	750	701	657	1180	750	776
	132	739	1250	750	776	656	1300	750	701	702	1250	750	776
	160	796	1350	750	776	717	1450	750	701	766	1350	750	776
500	71	695	1040	826	867	591	1140	826	776	624	1060	826	867
	80	709	1100	826	867	607	1180	826	776	641	1100	826	867
	90	725	1140	826	867	624	1200	826	776	662	1140	826	867
	100	742	1180	826	867	643	1250	826	776	683	1180	826	867
	112	763	1250	826	867	666	1300	826	776	708	1250	826	867
560	132	800	1300	826	867	705	1400	826	776	752	1300	826	867
	160	855	1450	826	867	764	1550	826	776	815	1450	826	867
	80	768	1160	946	968	657	1250	946	861	890	1160	946	968
	90	784	1200	946	968	674	1300	946	861	890	1200	946	968
	100	801	1250	946	968	692	1350	946	861	890	1250	946	968
560	112	822	1300	946	968	715	1400	946	861	890	1300	946	968
	132	858	1400	946	968	754	1500	946	861	890	1400	946	968
	160	911	1500	946	968	811	1650	946	861	890	1500	946	968
	80	850	1250	1026	1080	723	1400	1026	956	1005	1250	1026	1080
	90	866	1300	1026	1080	740	1450	1026	956	1005	1300	1026	1080
560	100	882	1350	1026	1080	757	1500	1026	956	1005	1350	1026	1080
	112	901	1400	1026	1080	778	1550	1026	956	1005	1400	1026	1080
	132	936	1500	1026	1080	815	1600	1026	956	1005	1500	1026	1080
160	987	1600	1026	1080	870	1750	1026	956	1005	1600	1026	1080	

## TAE-H Overall dimension

		0				90°				180			
LG													
RD													
Model	Motor Frame Size	D	L	W	H	D	L	W	H	D	L	W	H
250	90	472	820	561	500	422	860	561	470	452	820	561	500
	100	493	860	561	500	444	920	561	470	476	860	561	500
	112	519	920	561	500	472	960	561	470	505	920	561	500
	132	563	1020	561	500	519	1060	561	470	554	1020	561	500
	160	628	1140	561	500	586	1180	561	470	624	1140	561	500
280	100	529	920	613	558	474	960	613	516	507	920	613	558
	112	554	960	613	558	501	1020	613	516	535	960	613	558
	132	597	1060	613	558	547	1060	613	516	583	1060	613	558
	160	661	1180	613	558	613	1180	613	516	652	1180	613	558
315	100	569	960	658	618	505	1020	658	568	540	960	658	618
	112	594	1020	658	618	531	1060	658	568	568	1020	658	618
	132	635	1100	658	618	576	1180	658	568	615	1100	658	618
	160	697	1250	658	618	640	1300	658	568	683	1250	658	618
355	100	620	1020	746	694	545	1100	736	629	582	1020	736	694
	112	643	1100	746	694	570	1140	736	629	609	1100	736	694
	132	683	1180	746	694	613	1250	736	629	655	1180	736	694
	160	742	1300	746	694	675	1400	736	629	721	1300	736	694
	180	786	1400	746	694	722	1450	736	629	769	1400	736	694
400	112	701	1180	796	776	615	1250	776	701	657	1180	776	776
	132	739	1250	796	776	656	1300	776	701	702	1250	776	776
	160	796	1350	796	776	717	1450	776	701	766	1350	776	776
	180	839	1450	796	776	762	1550	776	701	814	1450	776	776
450	112	763	1250	900	867	666	1300	880	776	708	1250	880	867
	132	800	1300	900	867	705	1400	880	776	752	1300	880	867
	160	855	1450	900	867	764	1550	880	776	815	1450	880	867
	180	896	1550	900	867	807	1650	880	776	862	1550	880	867
	200	938	1600	900	867	852	1700	880	776	909	1600	880	867
500	112	822	1300	978	968	715	1400	958	861	759	1300	958	968
	132	858	1400	978	968	754	1500	958	861	802	1400	958	968
	160	911	1500	978	968	811	1650	958	861	864	1500	958	968
	180	951	1600	978	968	853	1700	958	861	910	1600	958	968
	200	992	1700	978	968	897	1800	958	861	956	1700	958	968

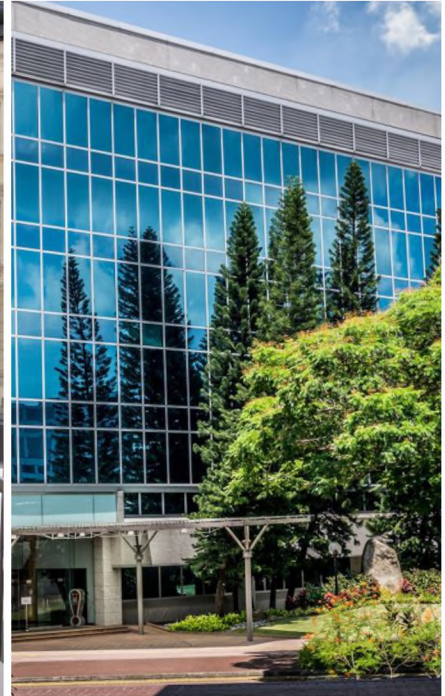
## TAE-H Overall dimension

		0°				90				180°			
LG													
RD													
Model	Motor Frame Size	D	L	W	H	D	L	W	H	D	L	W	H
560	132	936	1500	1106	1080	815	1600	1106	956	865	1500	1106	1080
	160	987	1600	1106	1080	870	1750	1106	956	926	1600	1106	1080
	180	1025	1700	1106	1080	912	1850	1106	956	971	1700	1106	1080
	200	1065	1800	1106	1080	954	1950	1106	956	1016	1800	1106	1080
630	132	1026	1600	1196	1207	888	1750	1196	1022	940	1600	1196	1207
	160	1075	1700	1196	1207	941	1850	1196	1022	999	1700	1196	1207
	180	1111	1800	1196	1207	981	1950	1196	1022	1042	1800	1196	1207
	200	1149	1900	1196	1207	1021	2050	1196	1022	1087	1900	1196	1207
710	132	1117	1700	1310	1382	959	1900	1310	1174	1017	1700	1310	1382
	160	1165	1850	1310	1382	1011	2000	1310	1174	1076	1850	1310	1382
	180	1201	1900	1310	1382	1050	2100	1310	1174	1119	1900	1310	1382
	200	1238	2000	1310	1382	1090	2200	1310	1174	1163	2000	1310	1382
	225	1286	2150	1310	1382	1142	2300	1310	1174	1219	2150	1310	1382
800	90	1171	1650	1418	1548	987	1850	1418	1312	1032	1650	1418	1548
	100	1185	1700	1418	1548	1003	1900	1418	1312	1051	1700	1418	1548
	112	1203	1750	1418	1548	1022	1950	1418	1312	1074	1750	1418	1548
	132	1234	1850	1418	1548	1056	2050	1418	1312	1113	1850	1418	1548
	160	1279	1950	1418	1548	1106	2200	1418	1312	1170	1950	1418	1548
	180	1314	2050	1418	1548	1143	2300	1418	1312	1212	2050	1418	1548
	200	1349	2150	1418	1548	1182	2400	1418	1312	1255	2150	1418	1548
	225	1396	2250	1418	1548	1231	2500	1418	1312	1310	2250	1418	1548
900	100	1322	1850	1596	1728	1112	2100	1596	1467	1162	1850	1596	1728
	112	1339	1900	1596	1728	1130	2150	1596	1467	1185	1900	1596	1728
	132	1368	2000	1596	1728	1162	2250	1596	1467	1223	2000	1596	1728
	160	1412	2150	1596	1728	1210	2350	1596	1467	1278	2150	1596	1728
	180	1445	2200	1596	1728	1245	2450	1596	1467	1319	2200	1596	1728
	200	1479	2300	1596	1728	1282	2550	1596	1467	1361	2300	1596	1728
	225	1523	2400	1596	1728	1330	2650	1596	1467	1414	2400	1596	1728
	250	1568	2500	1596	1728	1380	2750	1596	1467	1470	2500	1596	1728
1000	100	1445	2000	1754	1890	1211	2250	1754	1599	1263	2000	1754	1890
	112	1461	2050	1754	1890	1228	2300	1754	1599	1284	2050	1754	1890
	132	1489	2150	1754	1890	1259	2400	1754	1599	1322	2150	1754	1890
	160	1532	2250	1754	1890	1305	2550	1754	1599	1376	2250	1754	1890
	180	1563	2350	1754	1890	1339	2600	1754	1599	1416	2350	1754	1890
	200	1596	2450	1754	1890	1375	2700	1754	1599	1457	2450	1754	1890
	225	1639	2550	1754	1890	1421	2850	1754	1599	1509	2550	1754	1890
	250	1683	2650	1754	1890	1469	2950	1754	1599	1562	2650	1754	1890

## Operational limits

	Type		200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
Max. power	D-K	kW	2.5	3	3	4	5.5	5.5	7.5	7.5	11	11					
	H	kW			6	8	11	11	15	15	18.5	22	22	22	25	30	37
	2D/2K	kW			5.5	8	8	10	11	11	13						
	2H	kW						18.5	18.5	18.5	22	22	22				
Max. speed	D-K	rpm	2600	2500	2400	2000	1900	1500	1200	1100	1000	900					
	H	rpm			2900	2400	2100	1800	1600	1400	1200	1100	900	800	750	650	600
	2D/2K	rpm			2200	1800	1700	1300	1000	800	700						
	2H	rpm						1500	1200	1000	900	800	600				
Temp. range min.-20°C	D-K	Max. °C	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
	H	Max. °C			100	100	100	100	100	100	100	100	100	100	100	100	100
	2D/2K	Max. °C			85	85	85	85	85	85	85						
	2H	Max. °C						100	100	100	100	100	100				
Fan weight	D	kg	9	11	12	17	21.5	27.5	36	49	68	78					
	K	kg			15	20	23.5	31.5	40	52	73	86					
	H	kg			21	27	29.5	44.5	54	62	80	103	133	185	233	286	333
	2D	kg			25	35	44	58	75	102	142						
	2K	kg			32	43	51	67	86	110	153						
	2H	kg						115	143	168	205	259	320				

## DTC Series



## DWDI, Forward Curved CENTRIFUGAL FAN

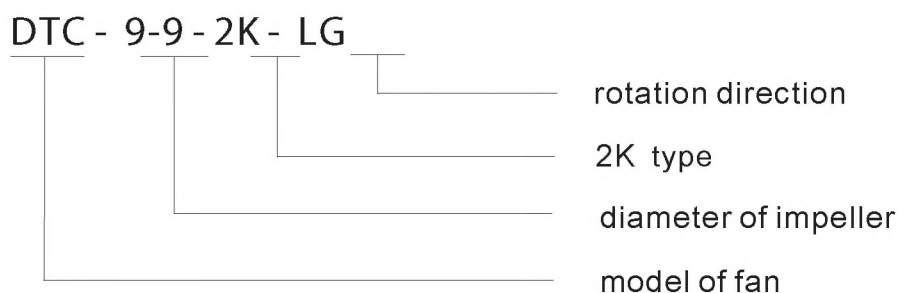


GTG Industries Sdn Bhd certifies that the DTC series for model DTC9-9, DTC10-10, DTC10-12 and DTC15-15 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





## Designation of Products



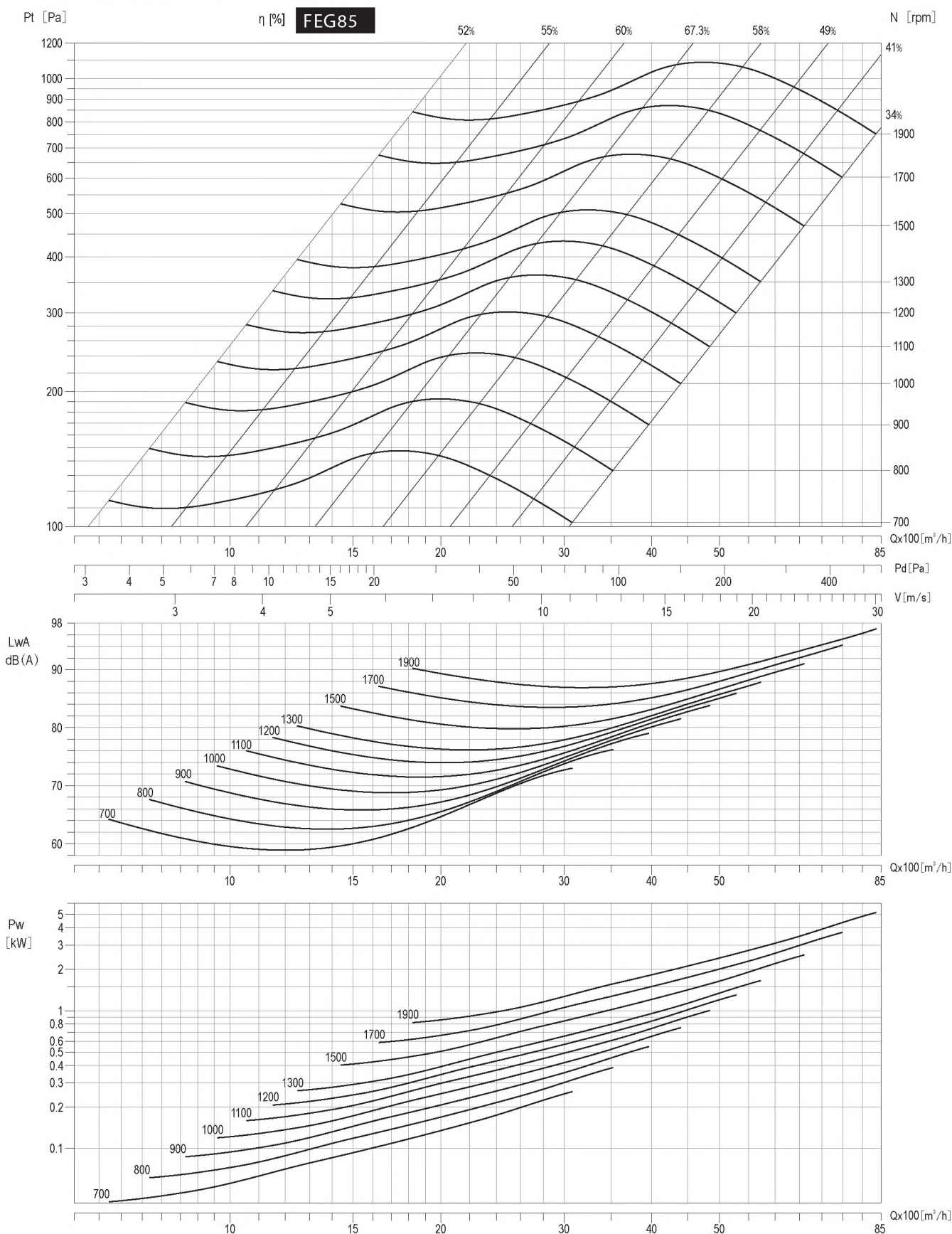
## Technical specification

- **Wheel:** The impeller of DTC have forward curved multi-blades in order to obtain max, efficiency and low noise level. The impeller is manufactured in galvanized steel.
- **Scroll:** made of high grade galvanized steel sheet, and it is cutted by laser-cutting machine with high quality.
- **Frame:** made of galvanized angle sections steel .
- **Bearing:** out-spherical ball bearing are used in DTC
- **Shaft:** the shaft is made of C45 carbon steel with high tolerance levels. shaft is provided corrosion resistance.
- **Balance:** all wheel are statically and dynamically balanced to ISO1940 and AMCA 204-G4.0 standard.

# DTC9-9

Air Density: 1.2 kg/m<sup>3</sup>

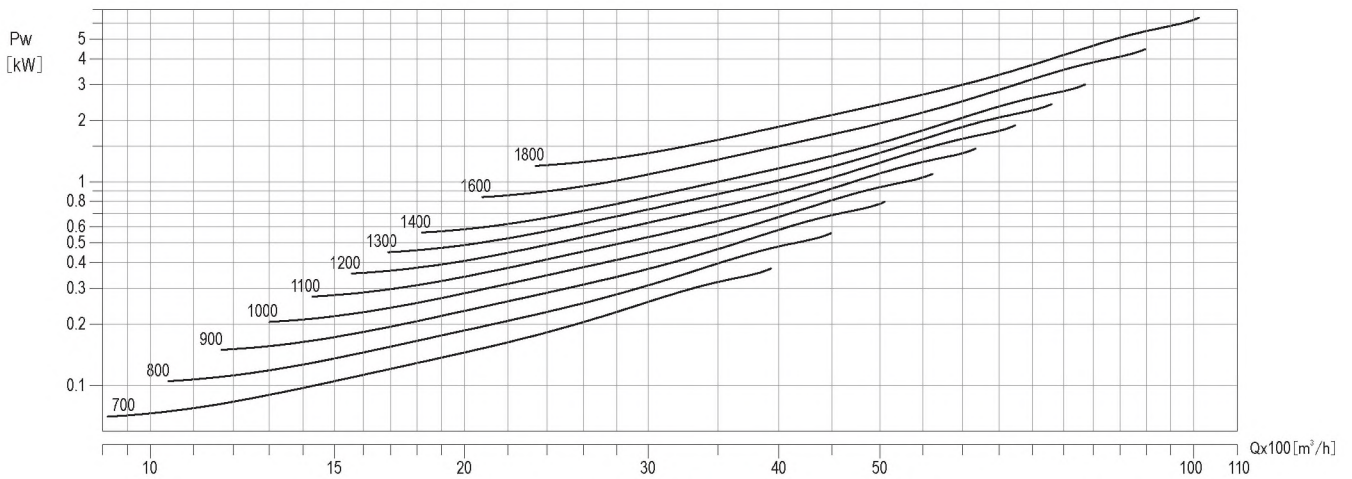
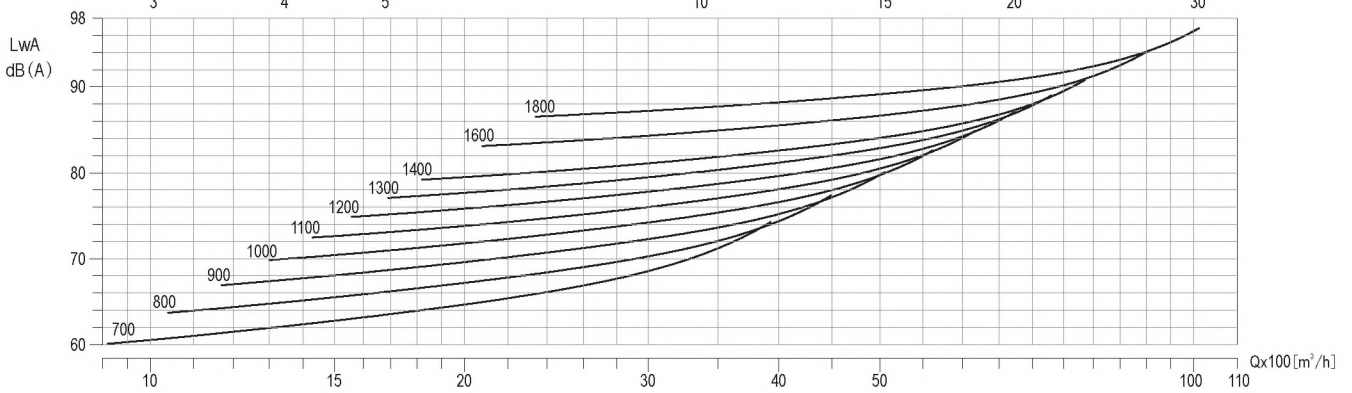
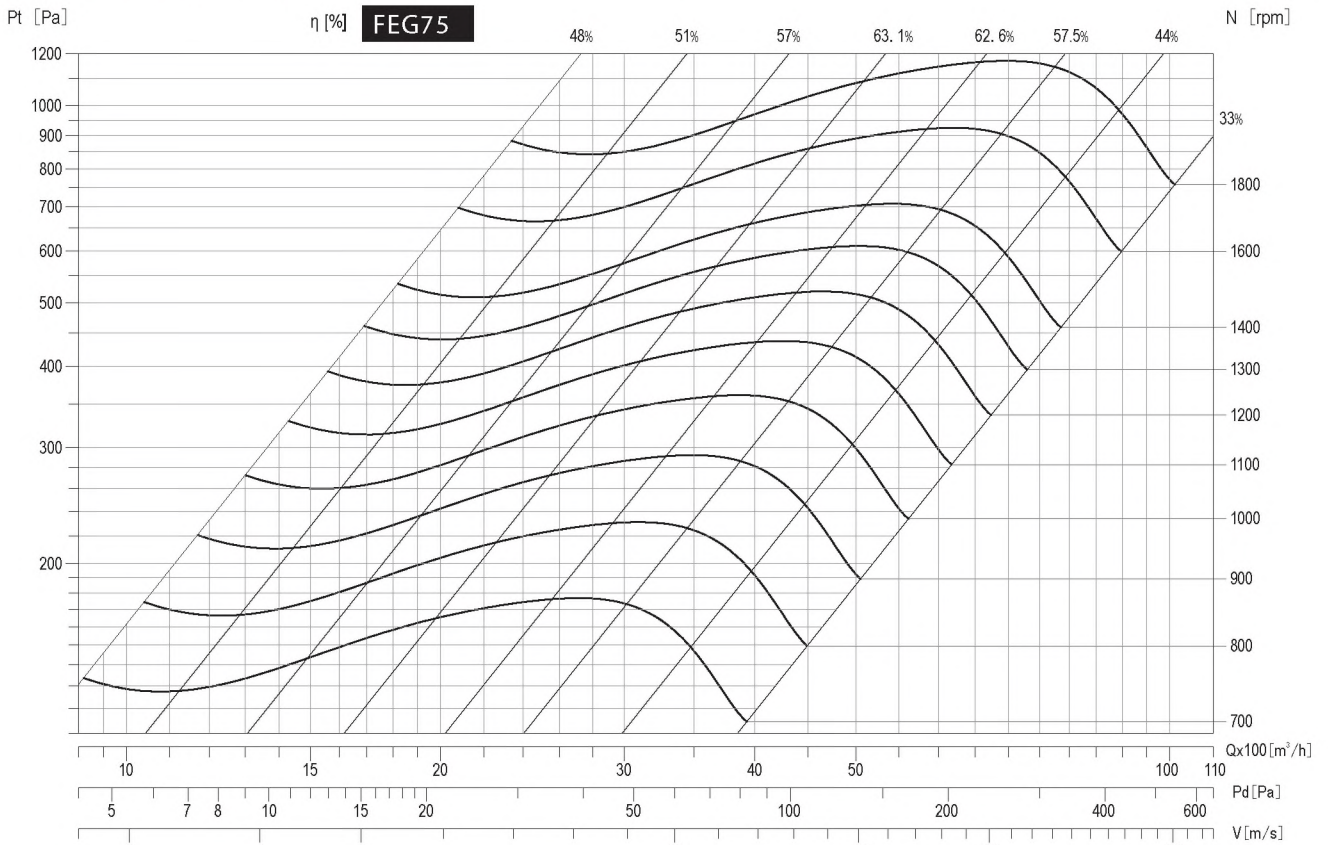
η [%] **FEG85**



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

# DTC10-10

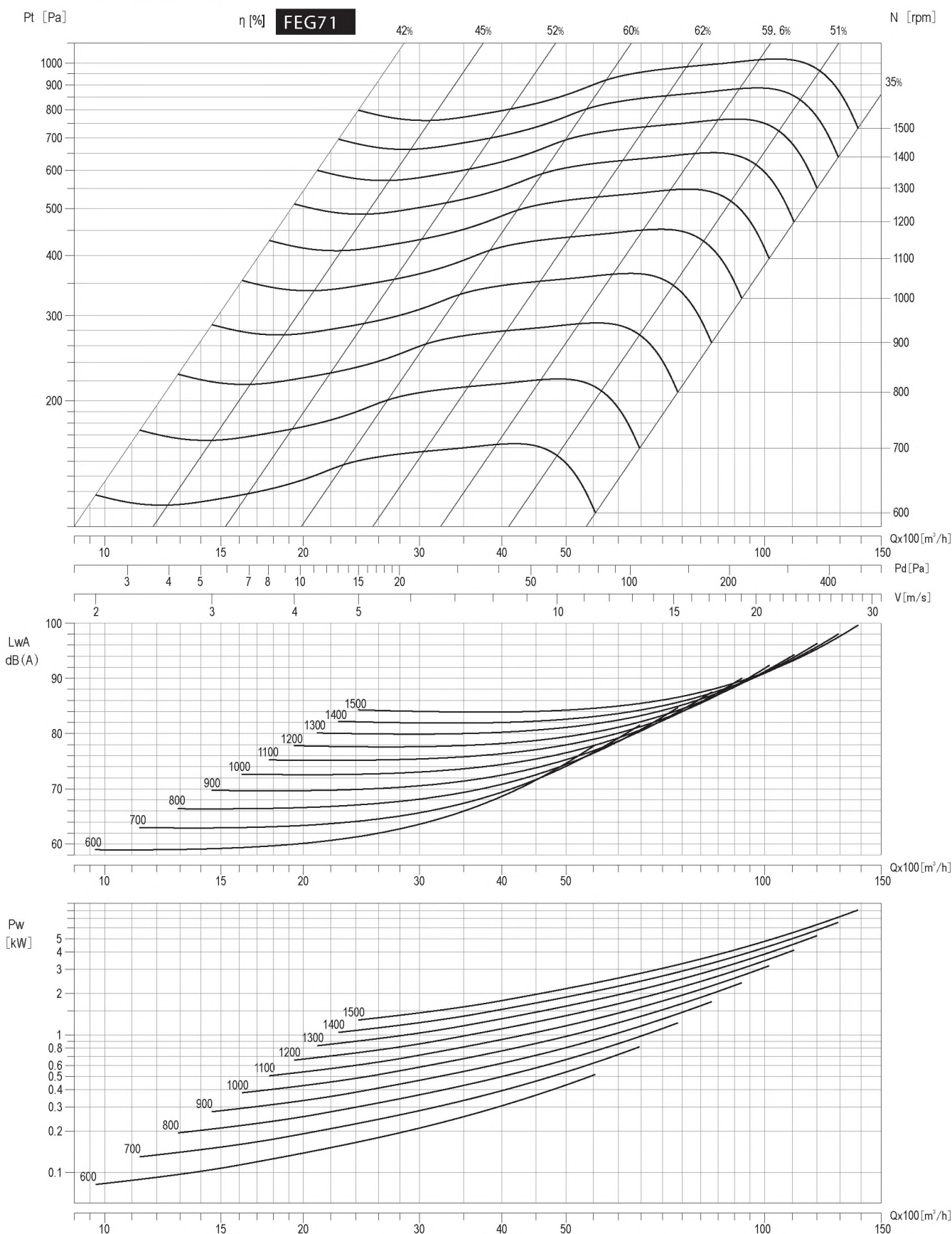
Air Density: 1.2 kg/m<sup>3</sup>



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

# DTC12-12

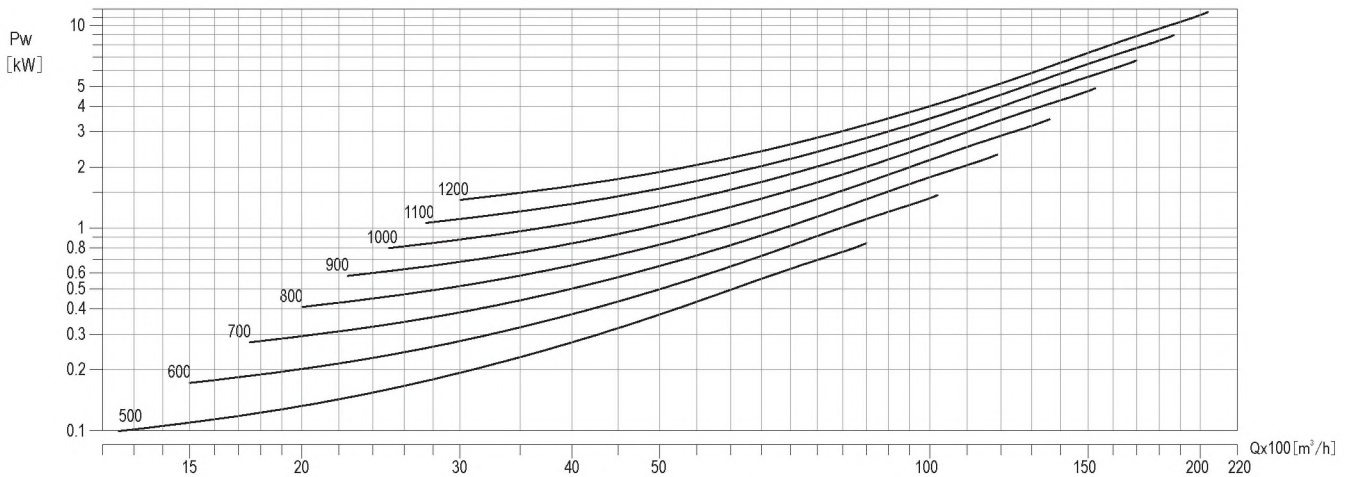
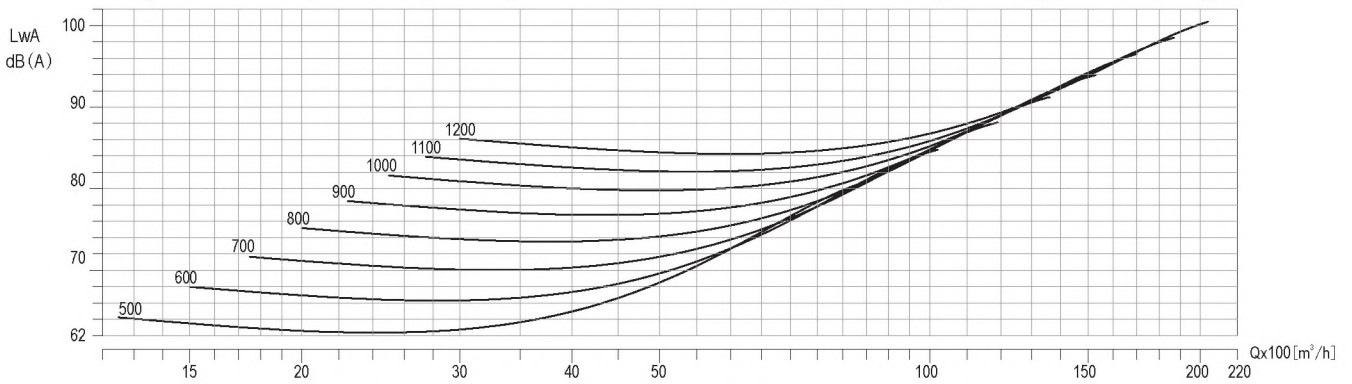
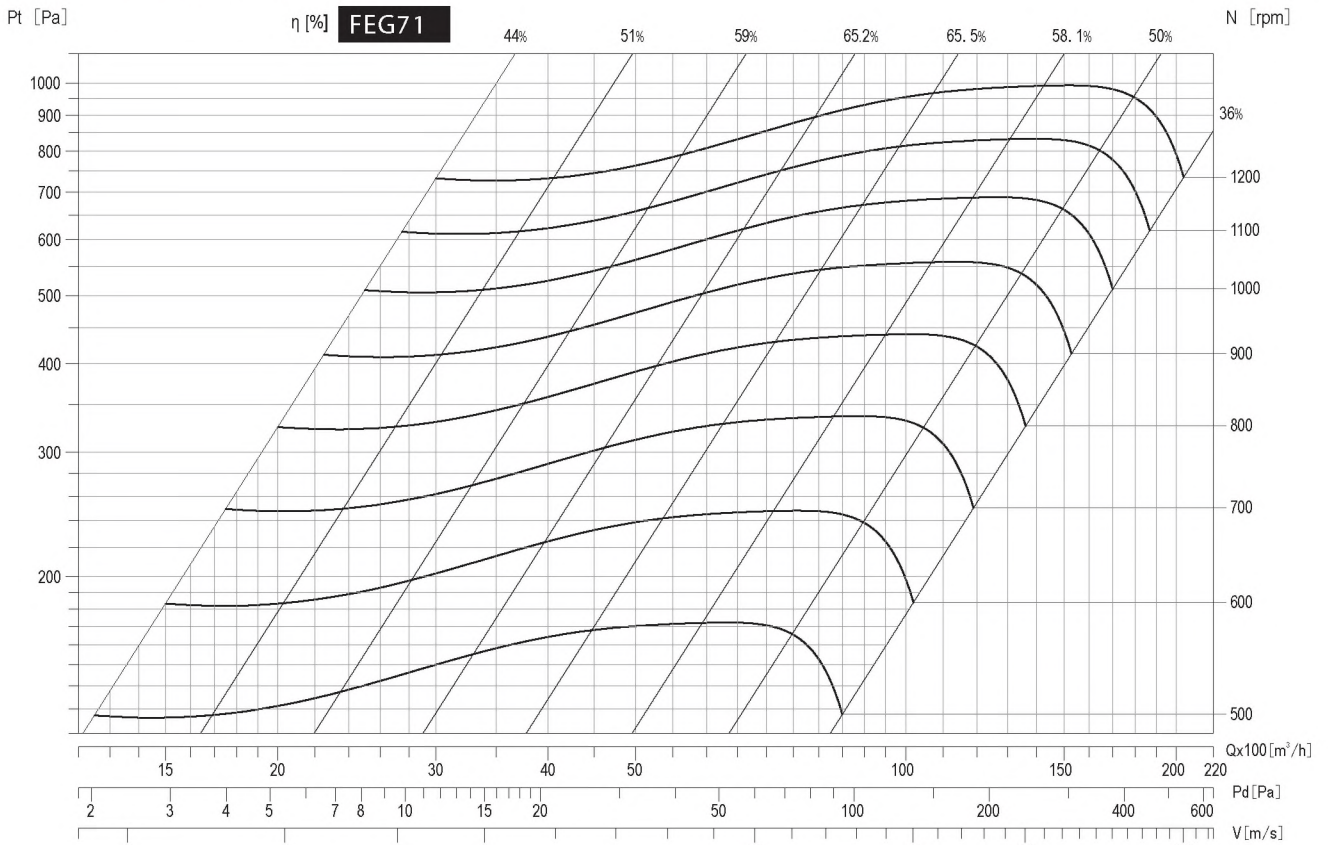
Air Density: 1.2 kg/m<sup>3</sup>



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

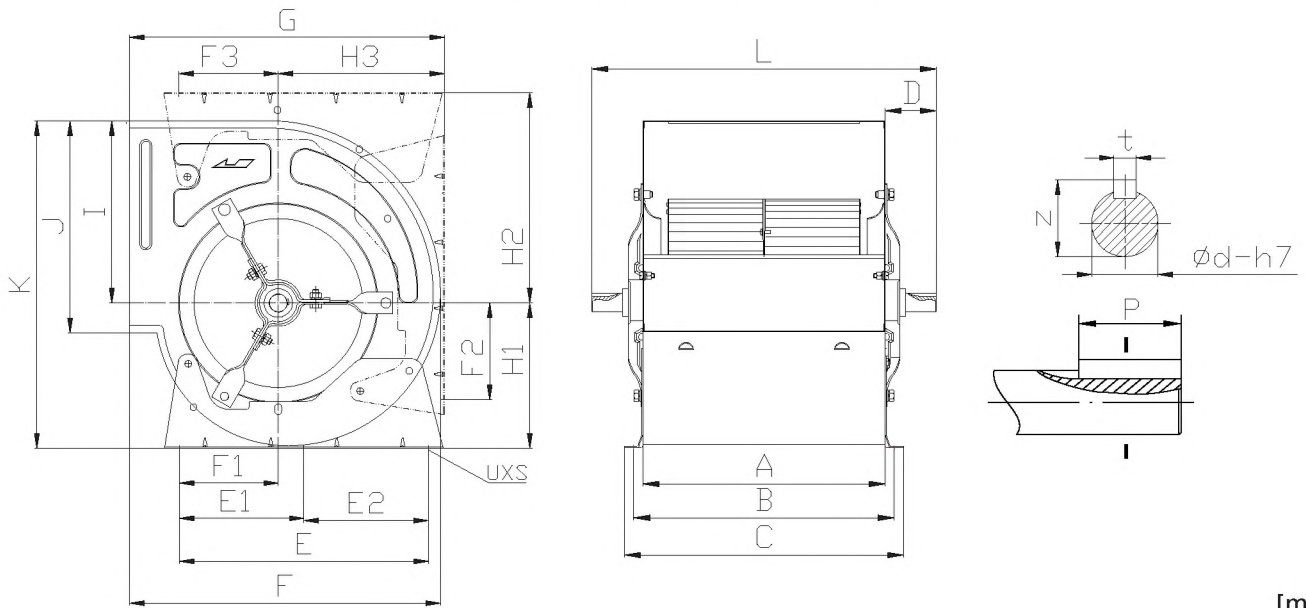
# DTC15-15

Air Density: 1.2 kg/m<sup>3</sup>



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

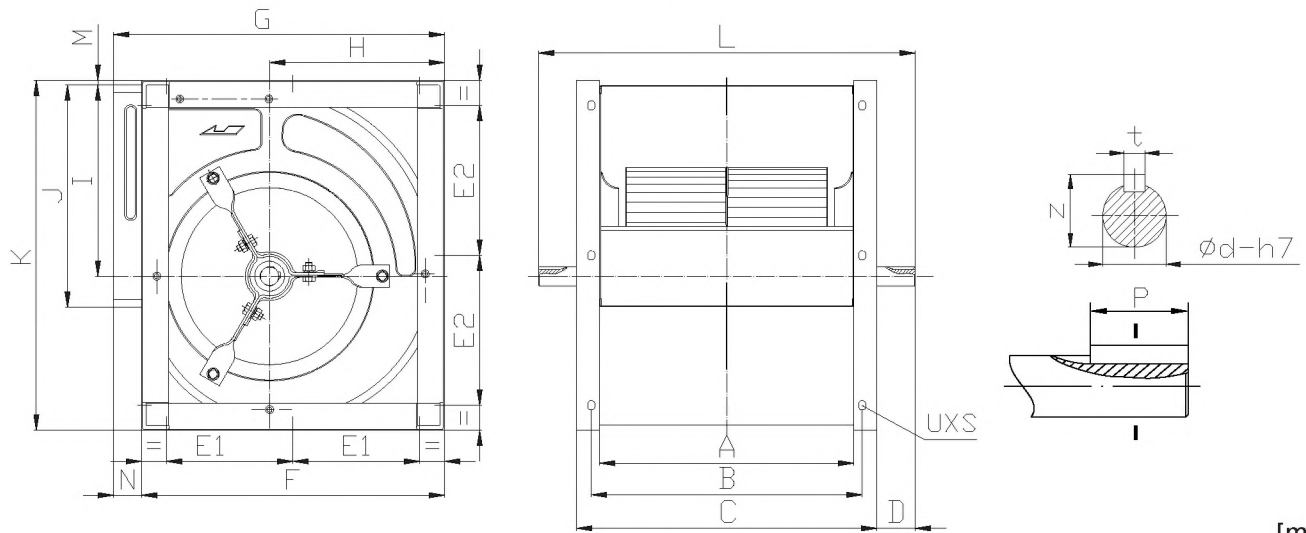
### DTC-D dimension



[mm]

Model	A	B	C	D	E	E1	E2	F	F1	F2	F3	G	H1	H2	H3	I	J	K	L	$\phi d$	t	z	P	UXS
9-9	298	323	348	70	300	135	165	380	123	124	119	384	178	253	199	216	262	389	438	20	6	22.8	32	11X16
																				25	8	28.3	32	11X16
10-10	331	356	381	70	340	170	170	424	135	132	136	430	198	287	227	249	289	443	471	25	8	28.3	32	11X16
12-12	395	420	445	70	408	189	219	491	161	153	161	496	232	332	266	294	341	521	535	25	8	28.3	32	11X16
15-15	471	496	521	100	495	232	263	568	201	211	197	573	272	380	309	342	404	609	671	25	8	28.3	50	11X16
																				30	8	33.3	50	11X16

### DTC-K dimension

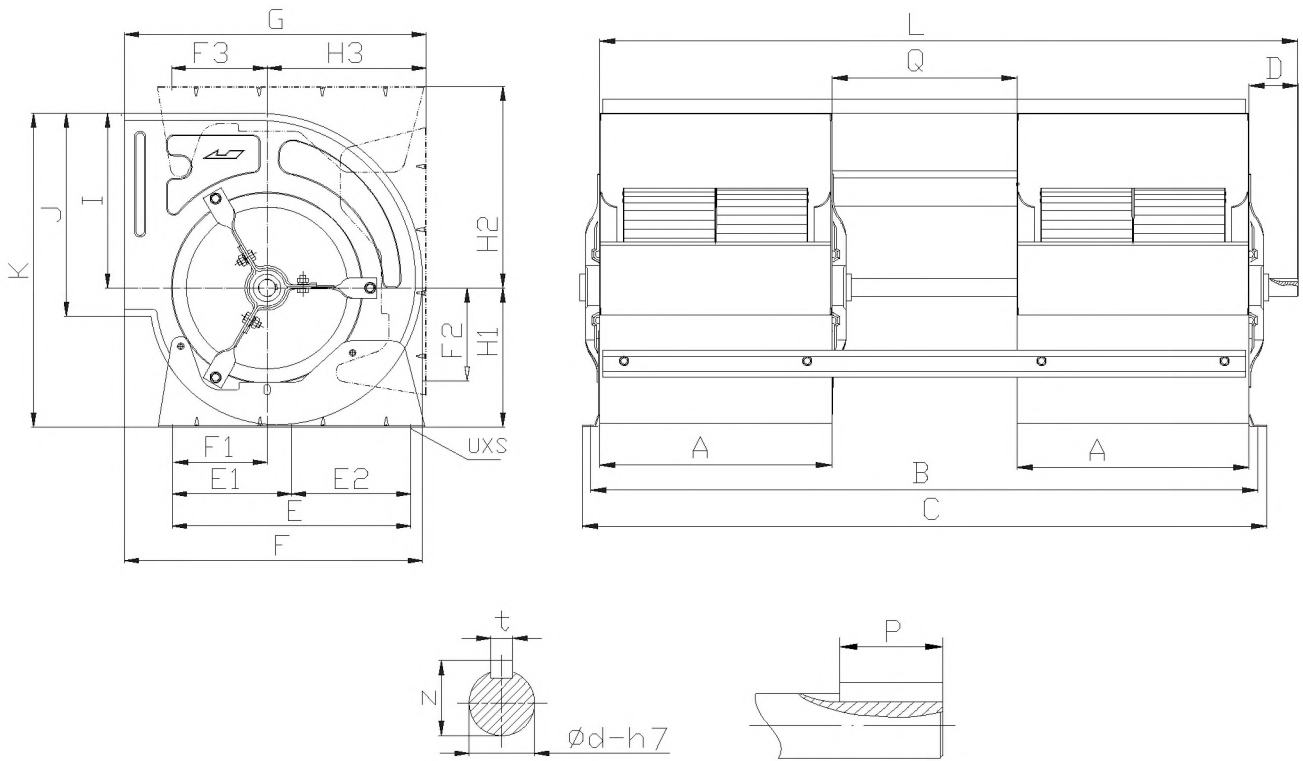


[mm]

Model	A	B	C	D	E1	E2	F	G	H	I	J	K	M	N	L	$\phi d$	t	z	P	UXS
9-9	298	320	358	50	137	162	349	385	200	216	262	399	6	36	458	20	6	22.8	32	9X12
																25	8	28.3		
10-10	331	353	391	50	165	195	395	431	228	249	289	455	6	36	491	25	8	28.3	32	9X12
12-12	395	425	455	50	185	222	461	497	267	294	341	533	6	36	555	25	8	28.3	32	11X16
15-15	471	501	531	70	225	266	539	575	311	342	404	621	6	36	671	25	8	28.3	50	11X16
																30	8	33.3		

Note: Overall dimension tolerance arange 4mm .

### DTC-2D dimension

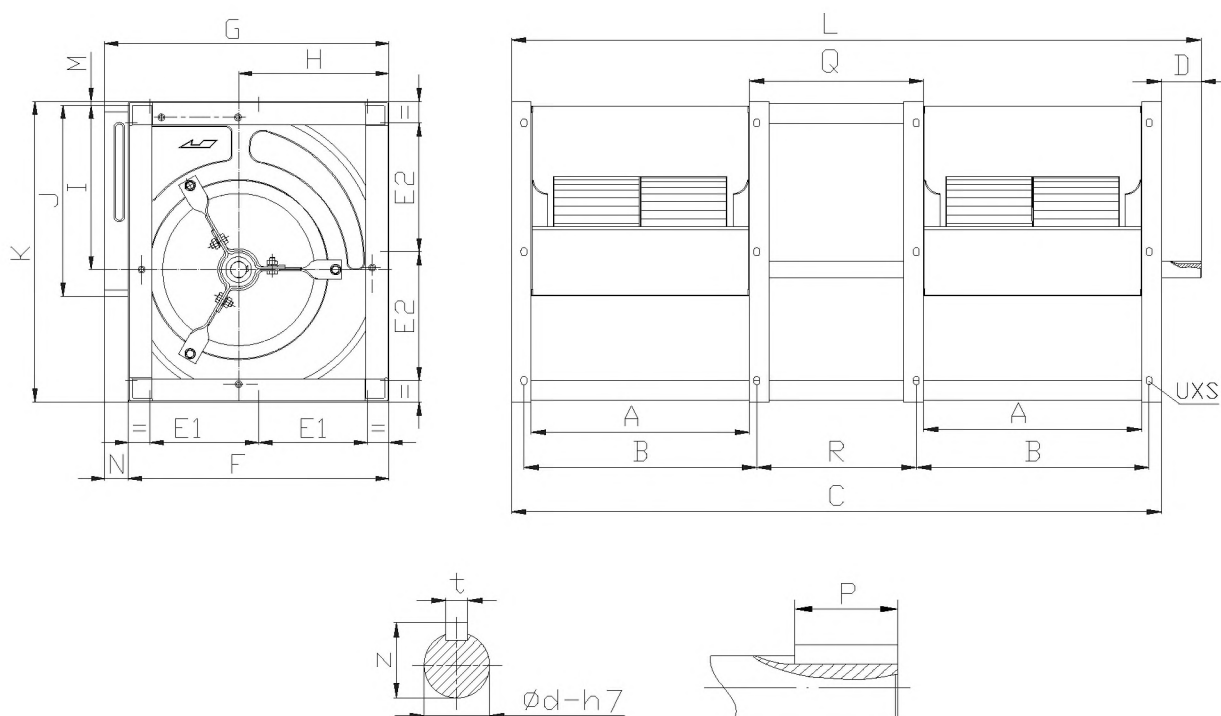


[mm]

Model	A	B	C	D	E	E1	E2	F	F1	F2	F3	G	H1	H2	H3	I	J	K	L	Q	$\phi d$	t	z	P	UXS
9-9	298	865	890	90	300	135	165	380	123	124	119	384	178	253	199	216	262	389	930	244	25	8	28.3	40	11X16
10-10	331	951	976	90	340	170	170	424	135	132	136	430	198	287	227	249	289	443	1015	264	25	8	28.3	40	11X16
12-12	395	1139	1164	110	408	189	219	491	161	153	161	496	232	332	266	294	341	521	1224	324	30	8	33.3	40	11X16
15-15	471	1351	1376	130	495	232	263	568	201	211	197	573	272	380	309	342	404	609	1456	384	30	8	33.3	80	11X16
																					35	10	38.3		

Note: Overall dimension tolerance arange 4mm .

## DTC-2K dimension



[mm]

Model	A	B	C	D	E1	E2	F	G	H	I	J	K	M	N	L	Q	R	$\phi d$	t	z	P	UXS
9-9	298	320	900	60	137	162	349	385	200	216	262	399	6	36	960	244	222	25	8	28.3	40	9X12
10-10	331	353	986	60	165	195	395	431	228	249	289	455	6	36	1046	264	242	25	8	28.3	40	9X12
12-12	395	425	1174	80	185	222	461	497	267	294	341	533	6	36	1254	324	294	30	8	33.3	40	11X16
15-15	471	501	1386	100	225	266	539	575	311	342	404	621	6	36	1486	384	354	30	8	33.3	80	11X16
																		35	10	38.3		

Note: Overall dimension tolerance arange 4mm .



## Operational limits

			9-9	10-10	12-12	15-15
Max Absorbed Power	D/K	kw	3	4	4	5.5
	2D	kw	6	8	8	11
	2K	kw	6	8	8	11
Max Speed	D/K	rpm	1800	1600	1400	1100
	2D	rpm	1500	1400	1200	900
	2K	rpm	1500	1400	1200	900
Temp. range (min. -20°C)	D/K	max. °C	85	85	85	85
	2D/2K	max. °C	85	85	85	85
Wheel	diameter	mm	241	270	321	381
	weight	kg	2.5	4.1	6.2	8.1
	J	kgm <sup>2</sup>	0.024	0.05	0.107	0.198
Fan Weight	D	kg	11.5	15.5	19	30
	K	kg	11.7	15.7	19.5	31
	2D	kg	22.5	30	45	60
	2K	kg	23.5	32.4	46.5	62

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