



TAE-SW带式传动空调风机

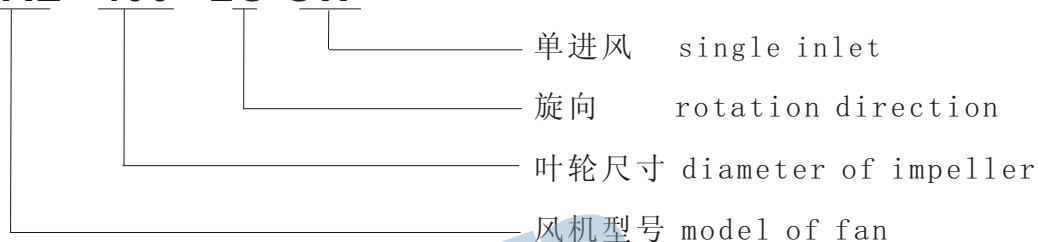
前倾公制叶轮
带式传动 单进风

TAE Series
SWSI, Forward Blades
CENTRIFUGAL FAN

Deton

产品命名方式 Designation of Products

TAE - 400 - LG-SW



风机旋向 Direction of rotation

	0°	90°	180°
右旋 RD			
左旋 LG			

性能说明 Performance

电机功率 Motor power

性能曲线上的功率是指风机的轴功率。选配电机时需要考虑机械传动效率和安全系数。

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)

η (Mechanical efficiency)

其中:

$K=1.25$ if $N_s < 0.75kW$

$K=1.20$ if $0.75kW < N_s < 10kW$

$K=1.15$ if $N_s > 10kW$

$\eta=0.95$ for V-belt driven

运转极限Operational limits

		200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
最大输入功率 Max.Power	kW	1.1	1.5	1.5	2.2	3	3	4	5.5	7.5	11	11	15	18.5	18.5	22
最大转速 Max.Speed	rpm	2600	2500	2400	2000	1900	1800	1600	1400	1200	1100	900	800	700	600	600
极限温度/最低-20℃ Temp. range/min.-20℃	Max.℃	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

风机噪声 Fan Noise

本册中各型号风机的噪声参数为A计权声功率级,数据是按照AMCA300标准, B安装形式在进风口一侧测量所得. 声压级与声功率级的换算关系如下.

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.

声压级 Sound pressure level

A, 自由声场 Free field

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

B, 室内环境 Room condition

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

“D” ----测量位置到风机距离

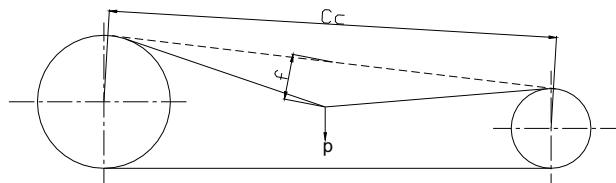
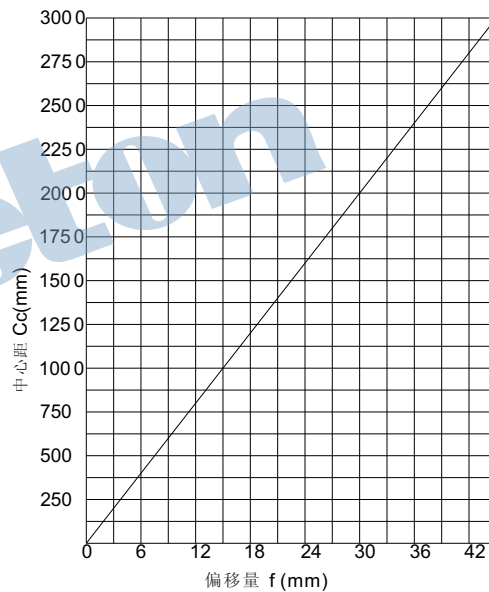
Distance of fan (m)

皮带张紧 V-belt Tension

皮带的松紧度对风机的使用寿命非常重要, 太紧会因为额外的负载而导致轴承寿命降低, 太松会导致打滑现象。安装皮带时应控制皮带的张紧力。以下是推荐数据。

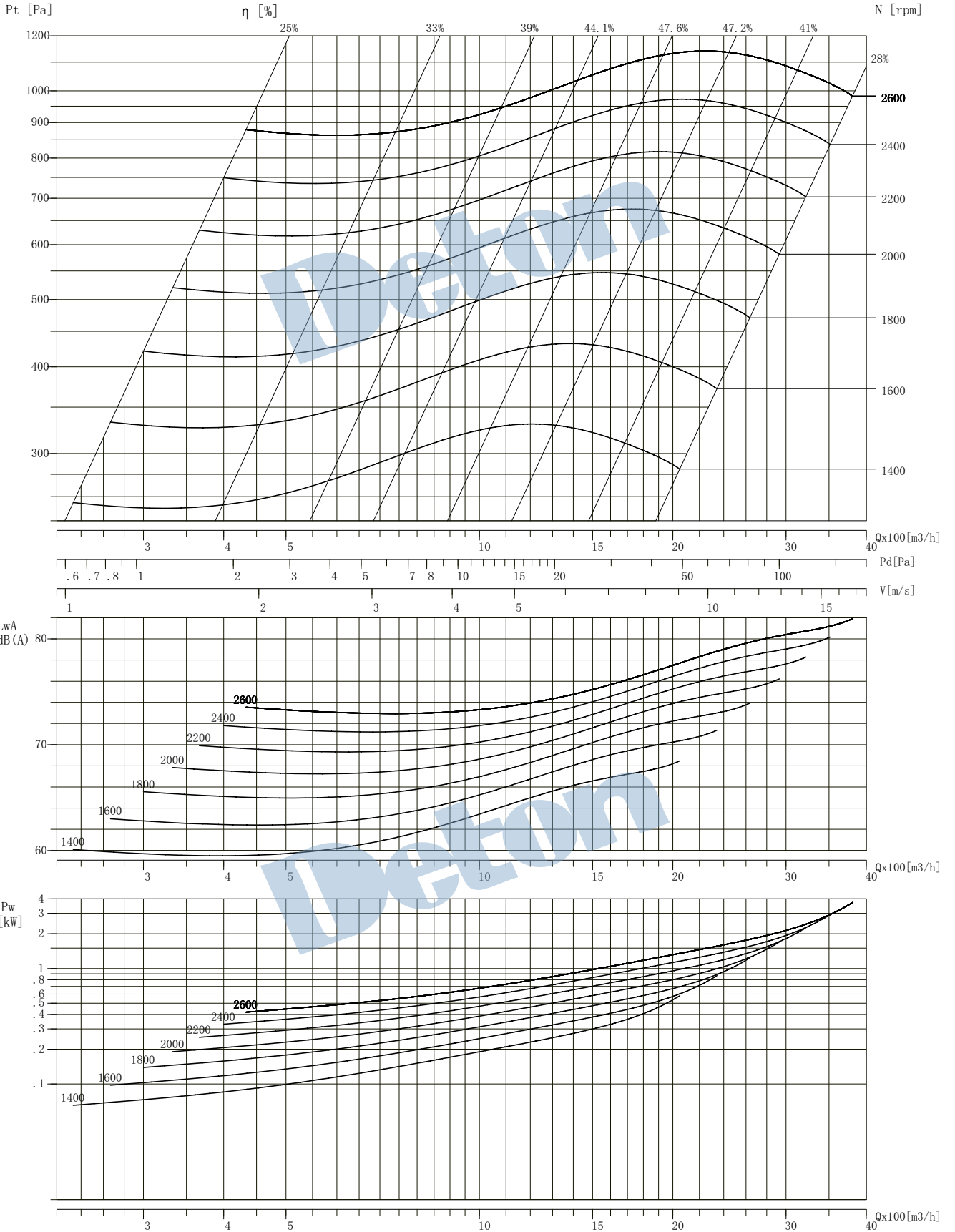
A proper level of belt tension is required in order to obtain a satisfactory belt life. If the belt tension level is too high, then excessive loads will be imposed on the belts and the bearings, and this will reduce the lives of both of these components. If the belt tension level is too low. Then the belt will slip. It is important to control the tension of the belt in belt installation.

	小皮带轮直径Small pulley diameter	张力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
SPB	280-315	4.0-5.0
	140-180	3.5-4.4
	190-236	4.0-5.2
	250-315	4.6-6.0
	335-400	5.5-7.6
SPC	450-500	6.7-9.0
	250-315	7.0-10.0
	335-400	8.0-11.5
	450-500	9.0-13.0



TAE200-SW

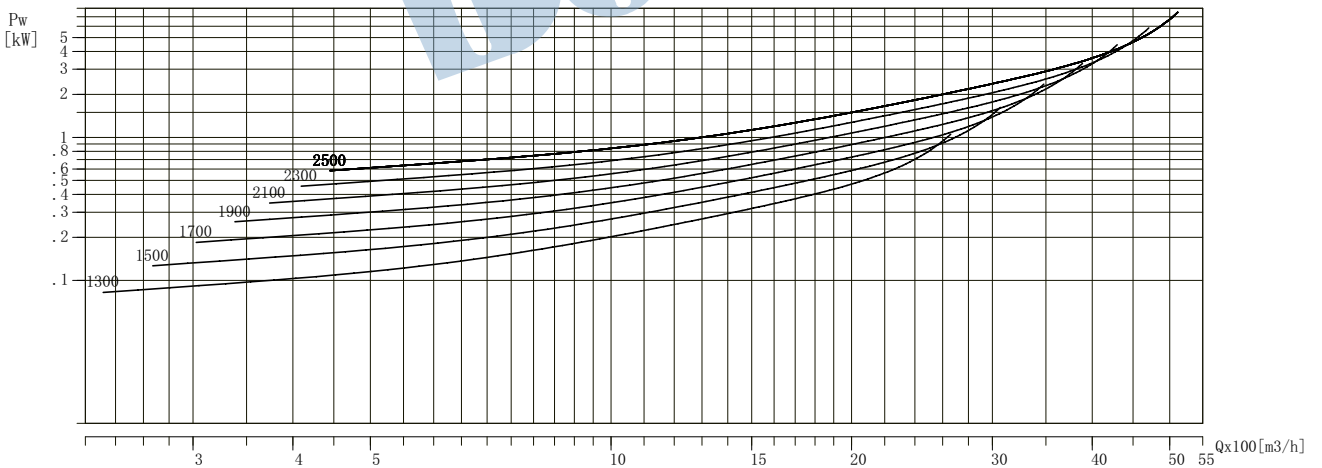
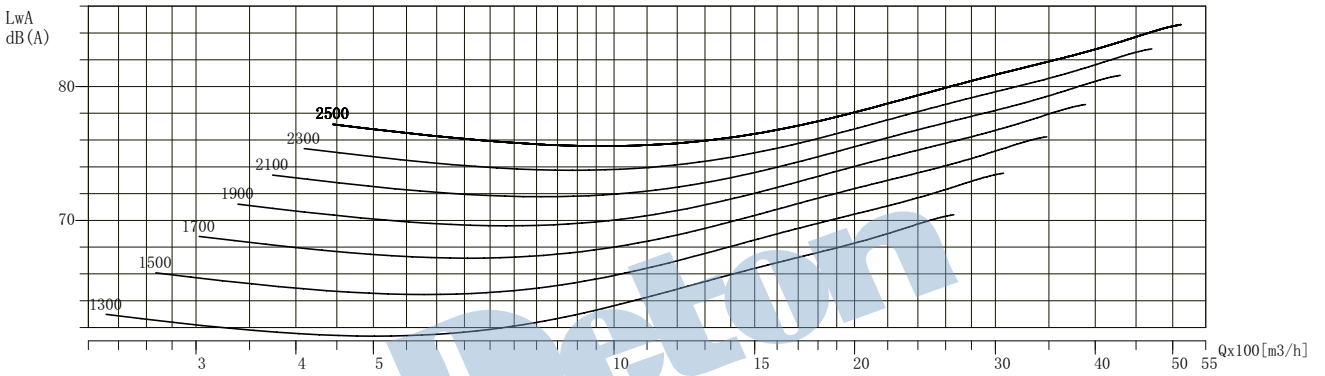
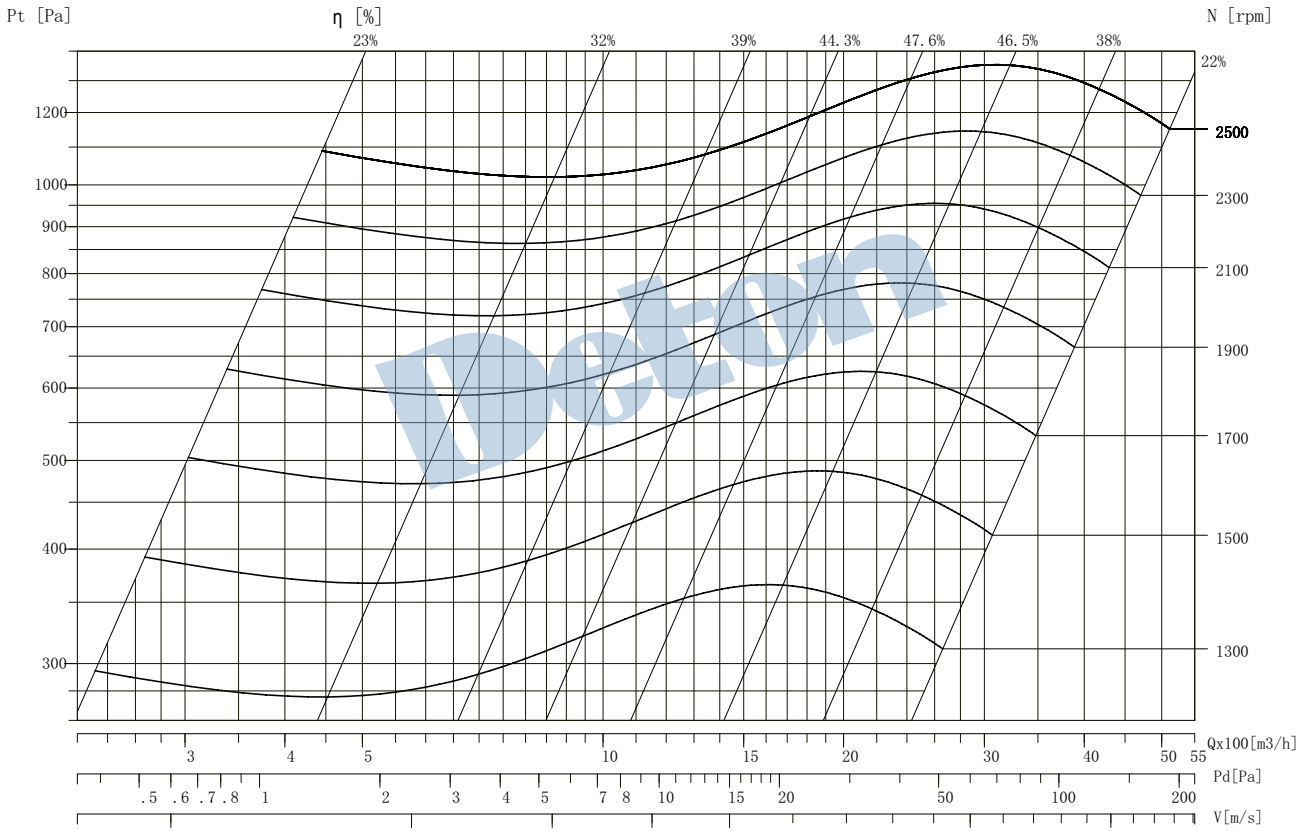
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE225-SW

Air Density: 1.2 kg/m³

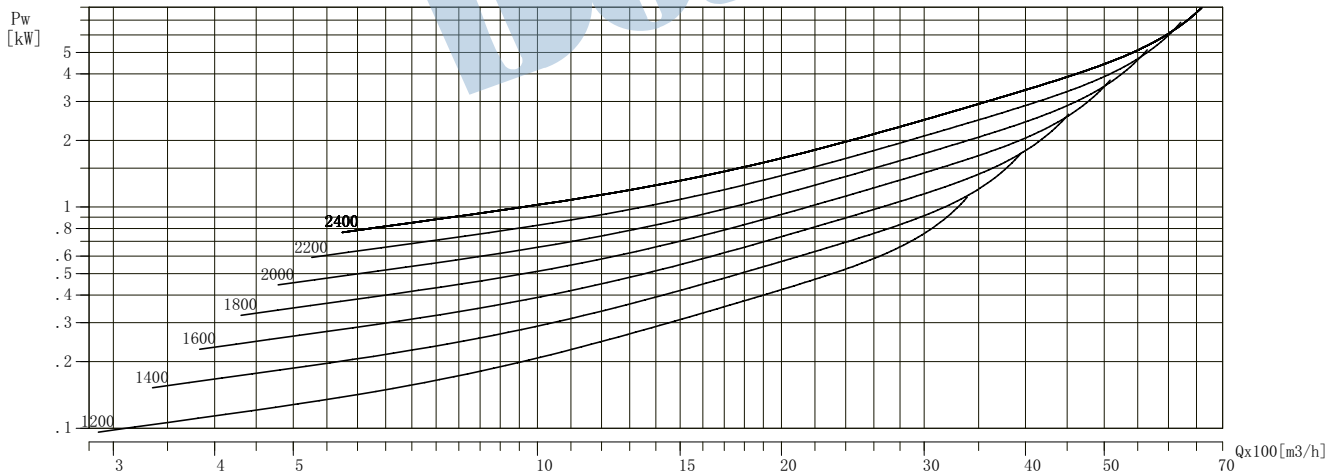
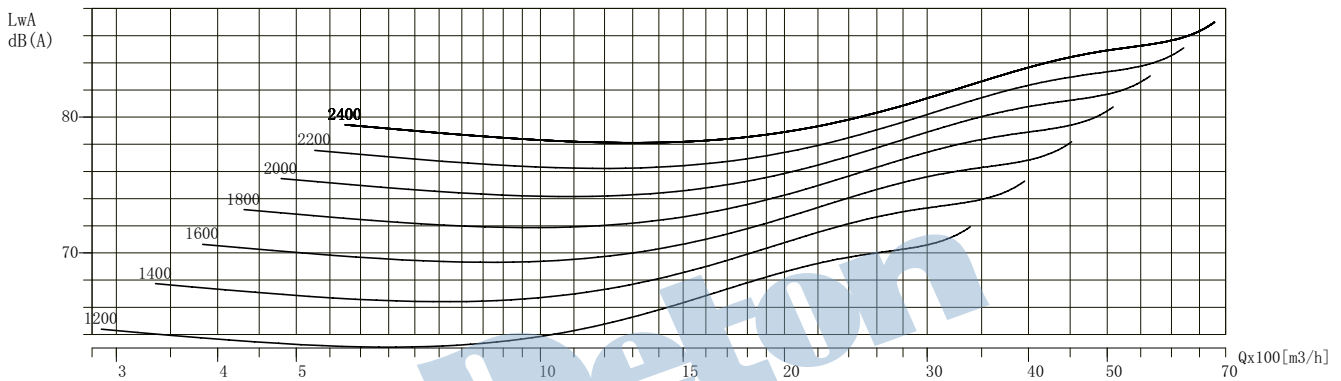
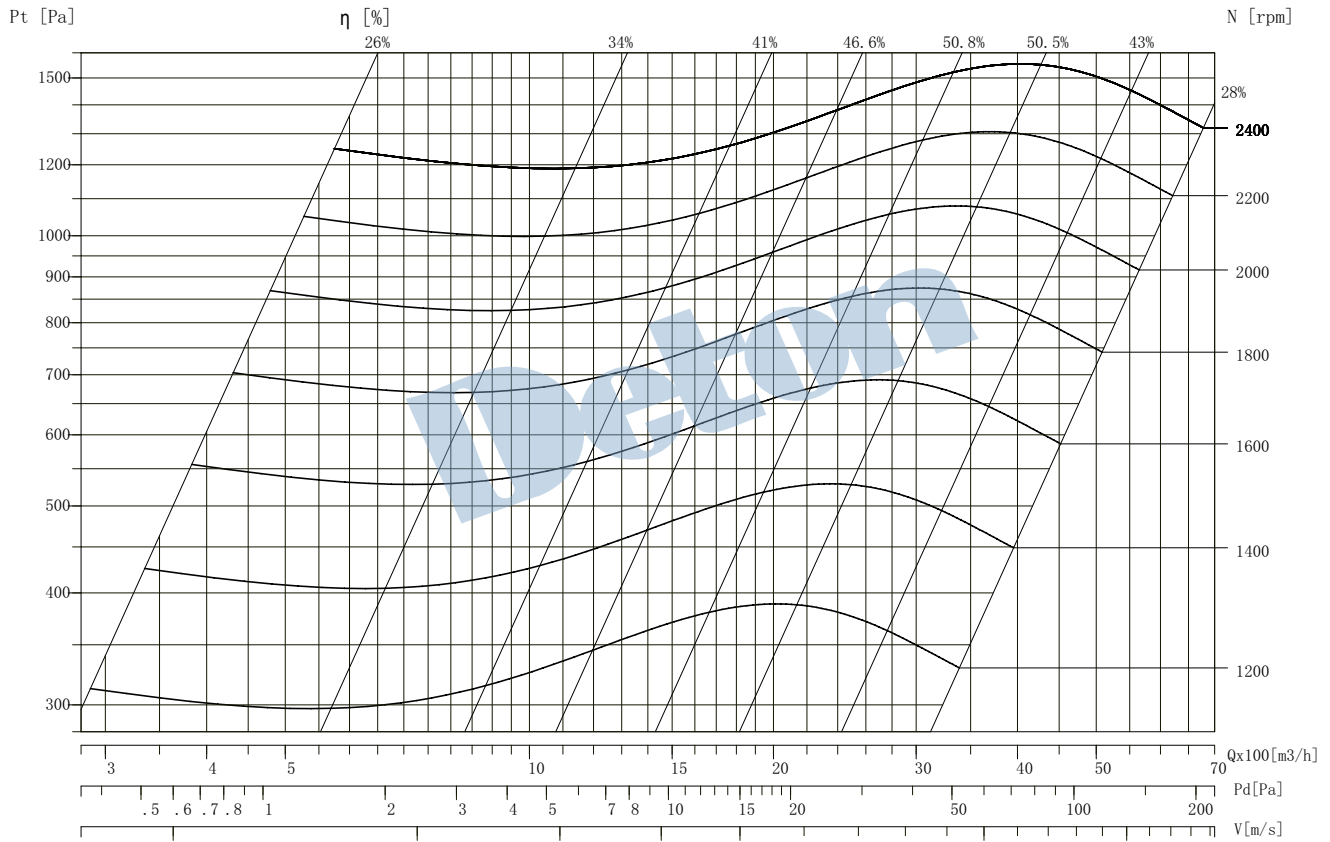


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TAE-SW

TAE250-SW

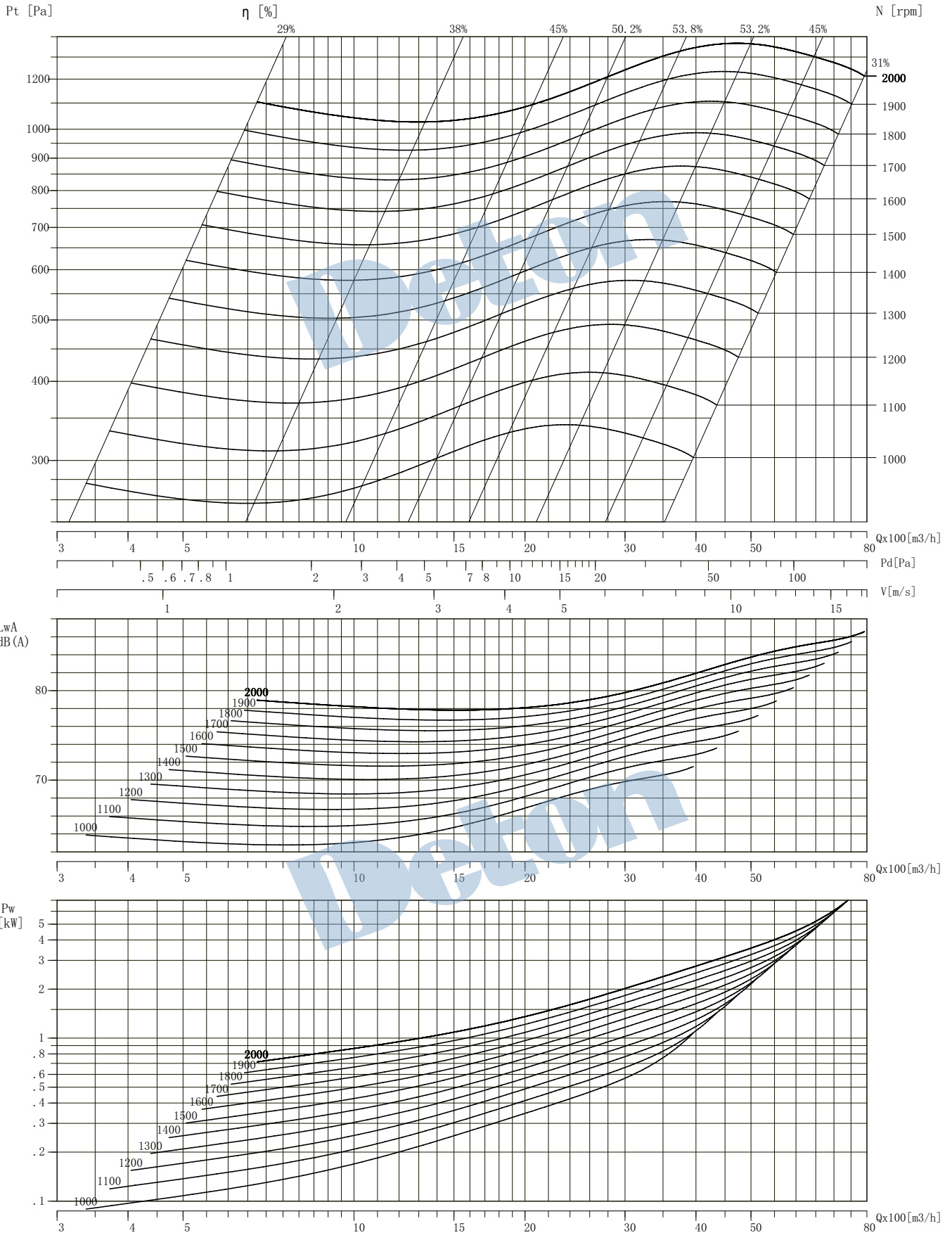
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE280-SW

Air Density: 1.2 kg/m³

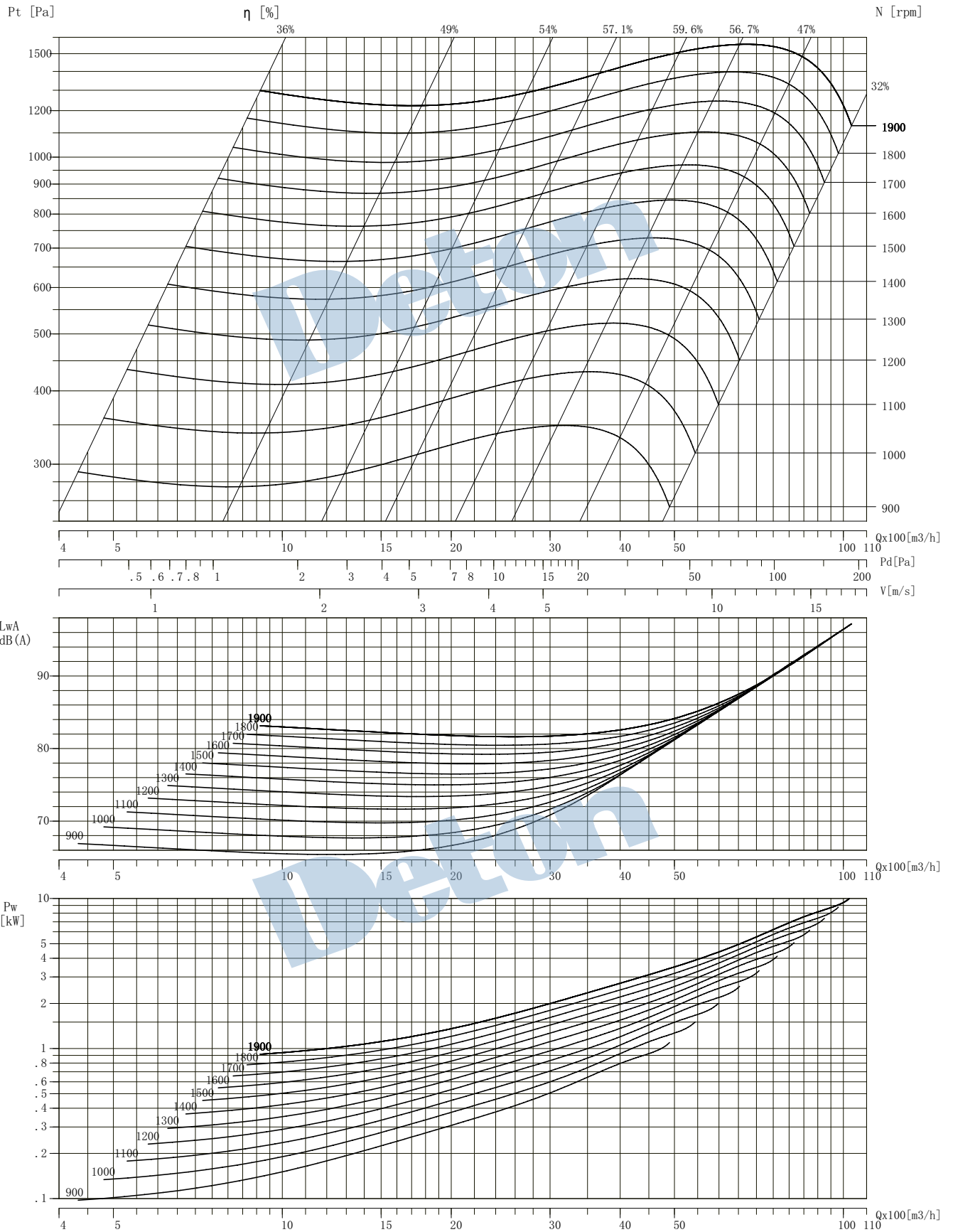


TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE315-SW

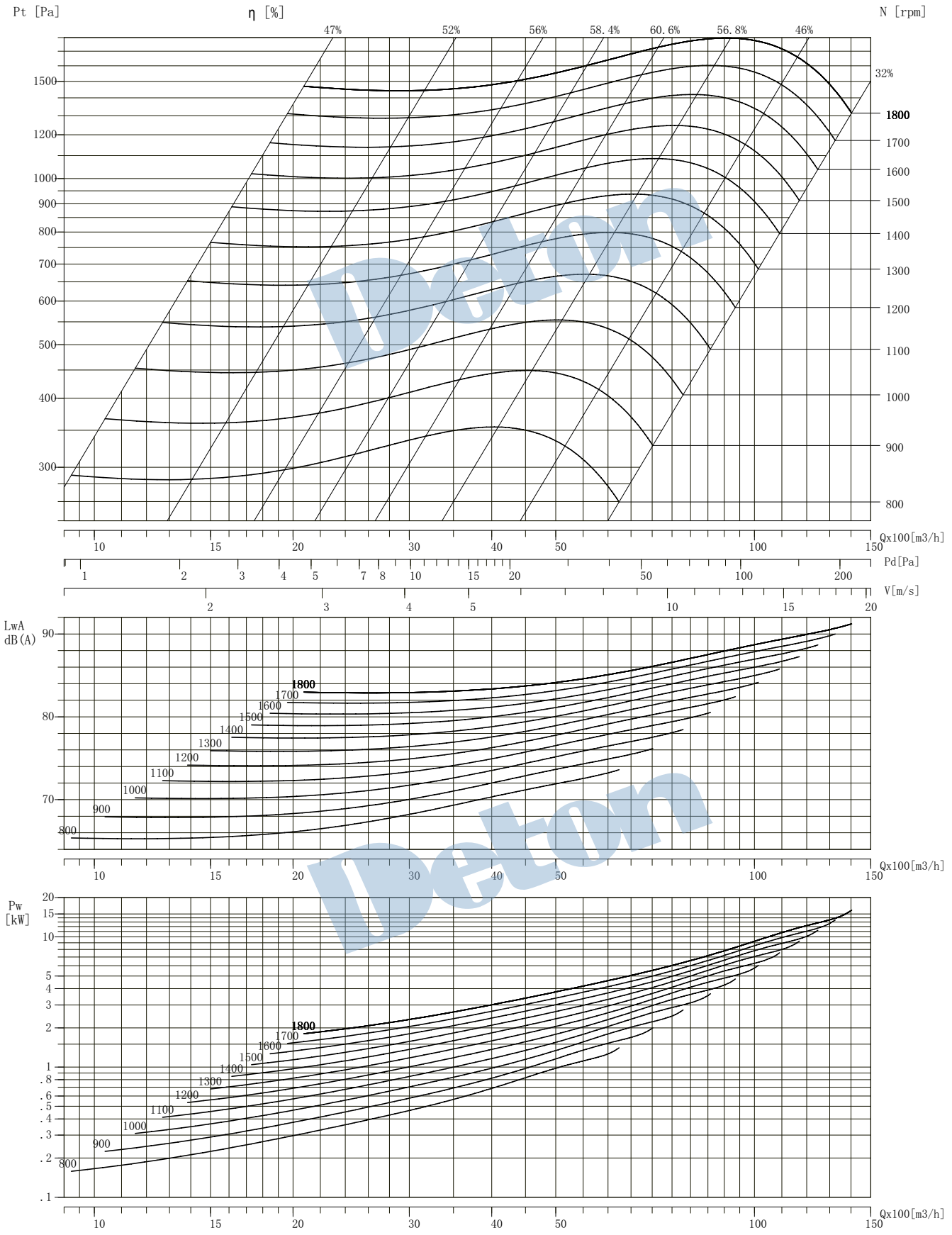
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE355-SW

Air Density: 1.2 kg/m³



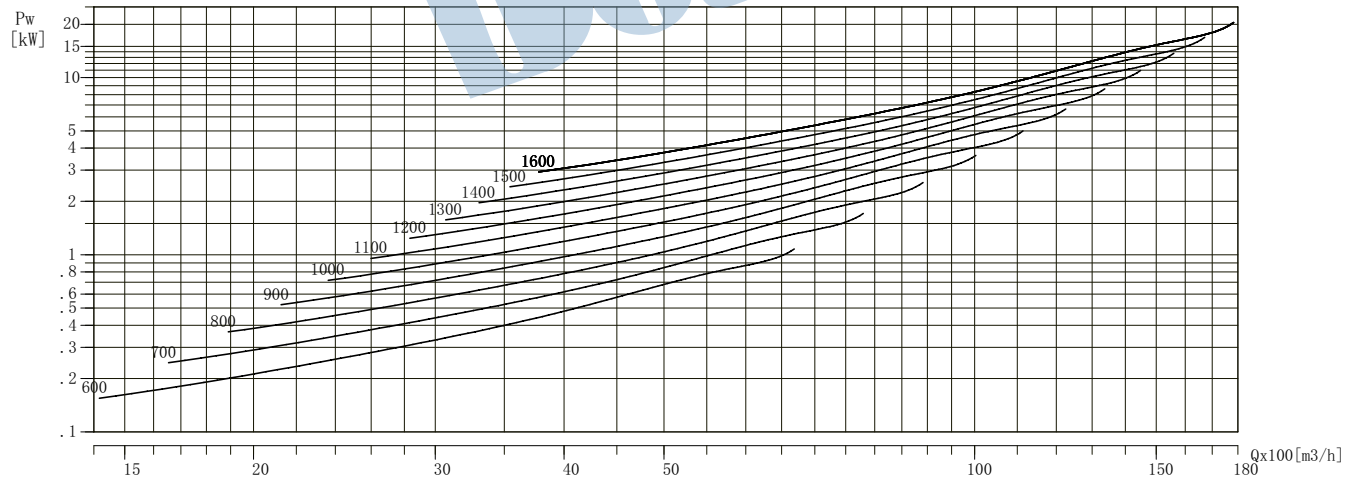
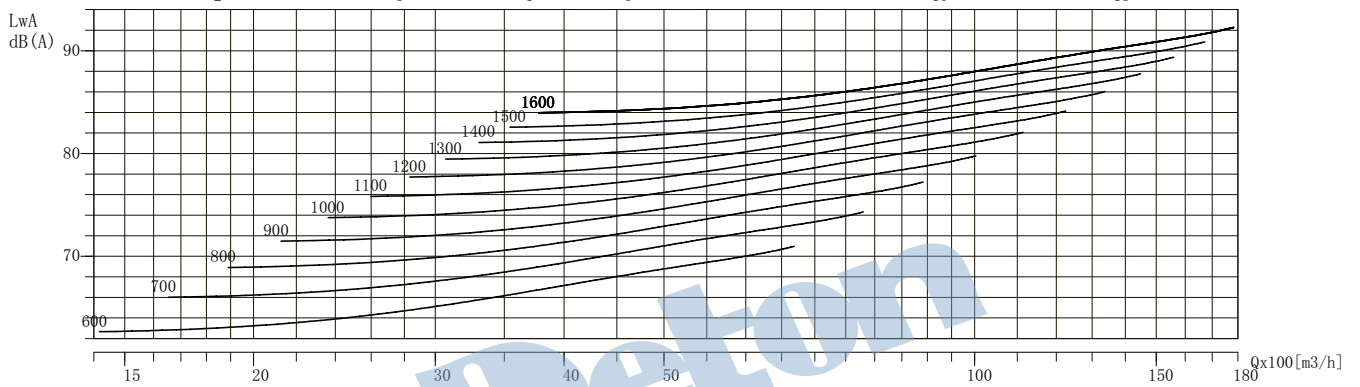
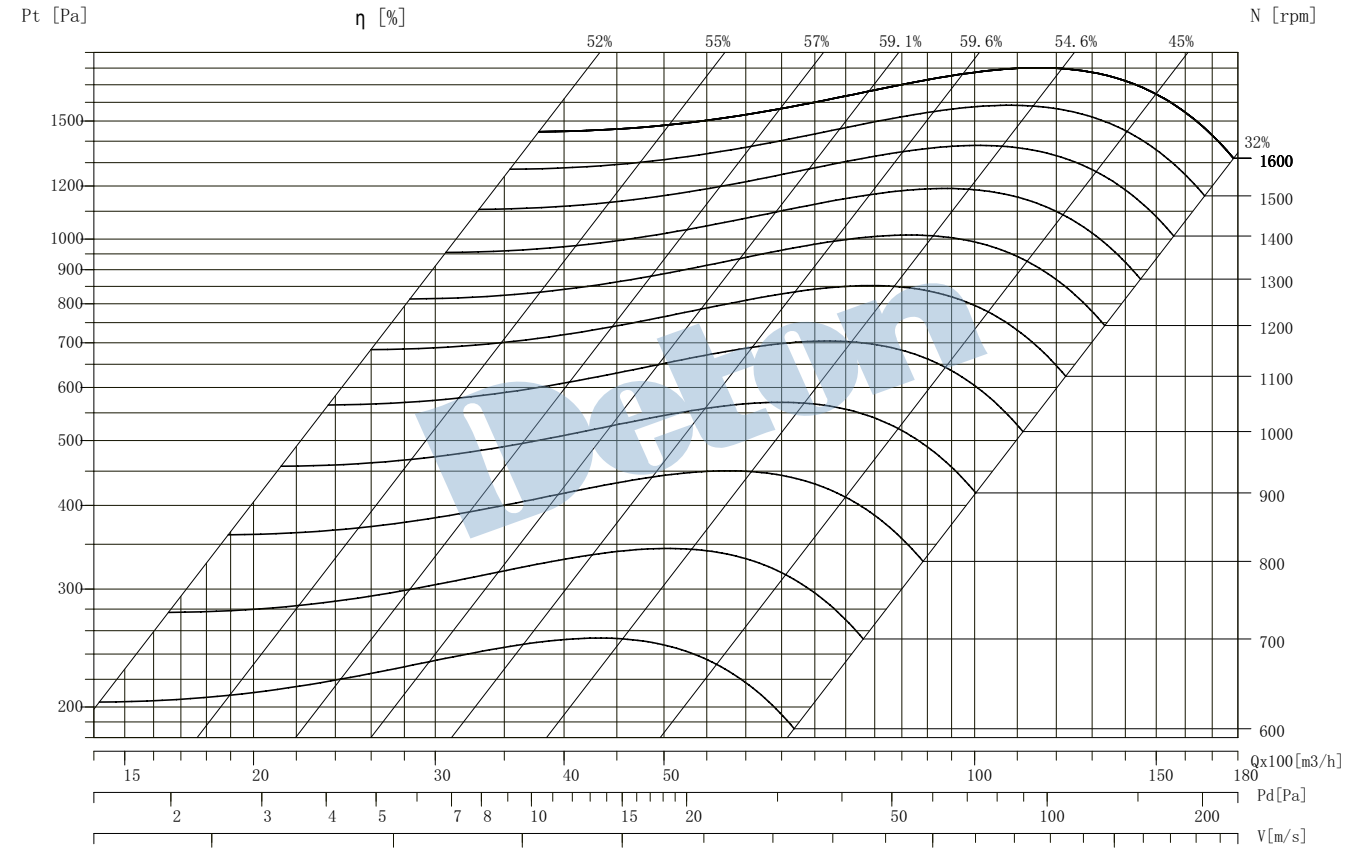
TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE400-SW

Air Density: 1.2 kg/m³

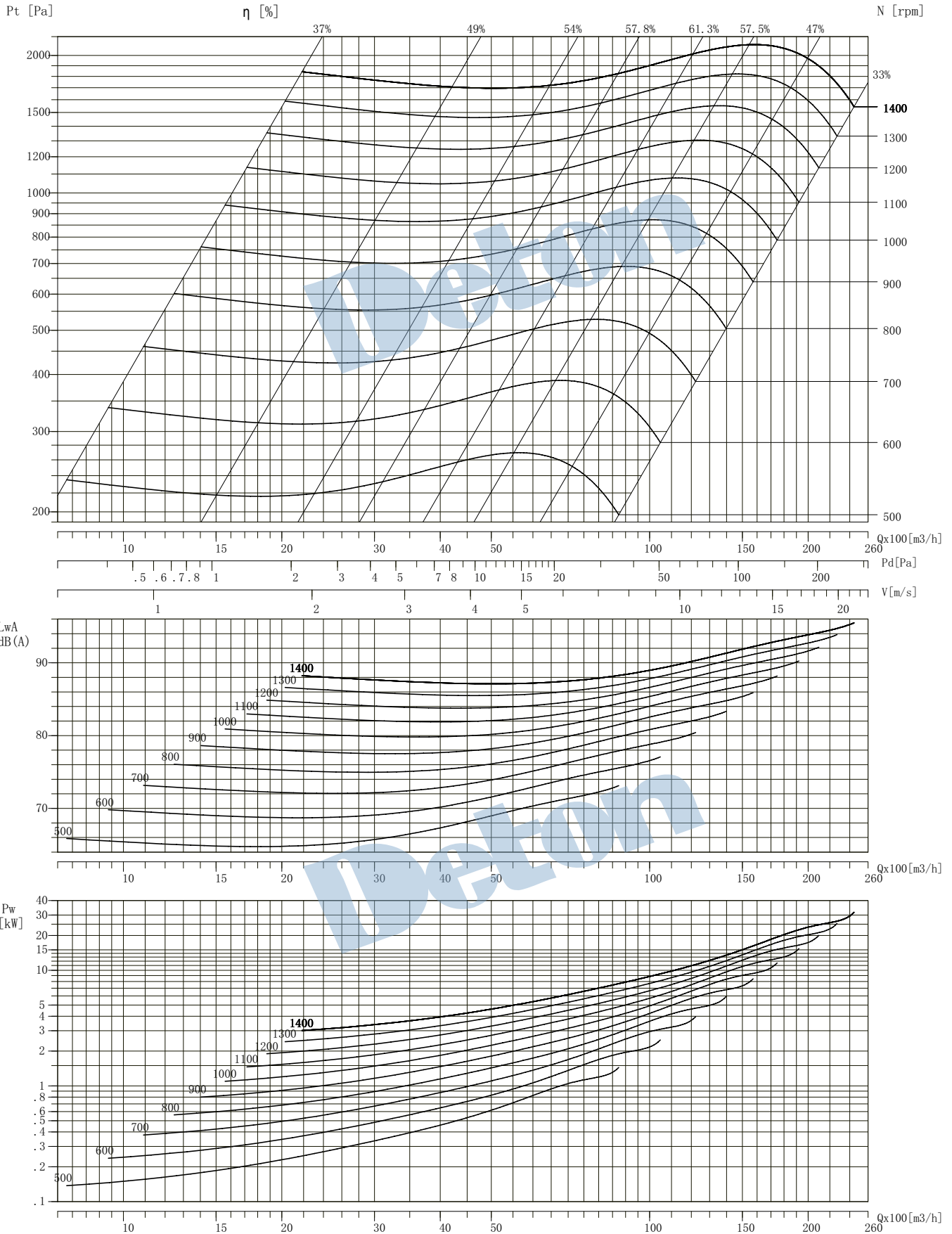
TAE-SW



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE450-SW

Air Density: 1.2 kg/m³

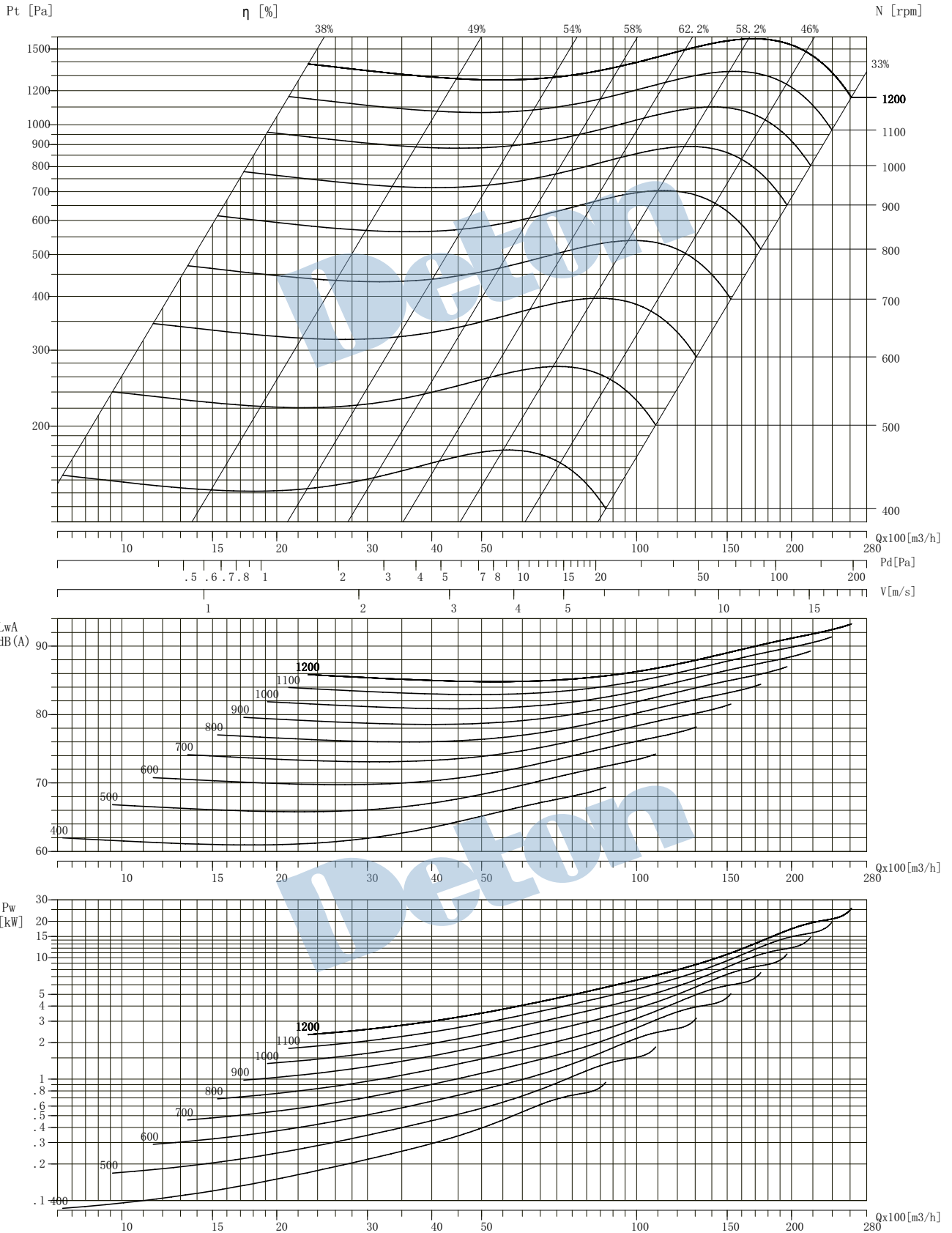


TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE500-SW

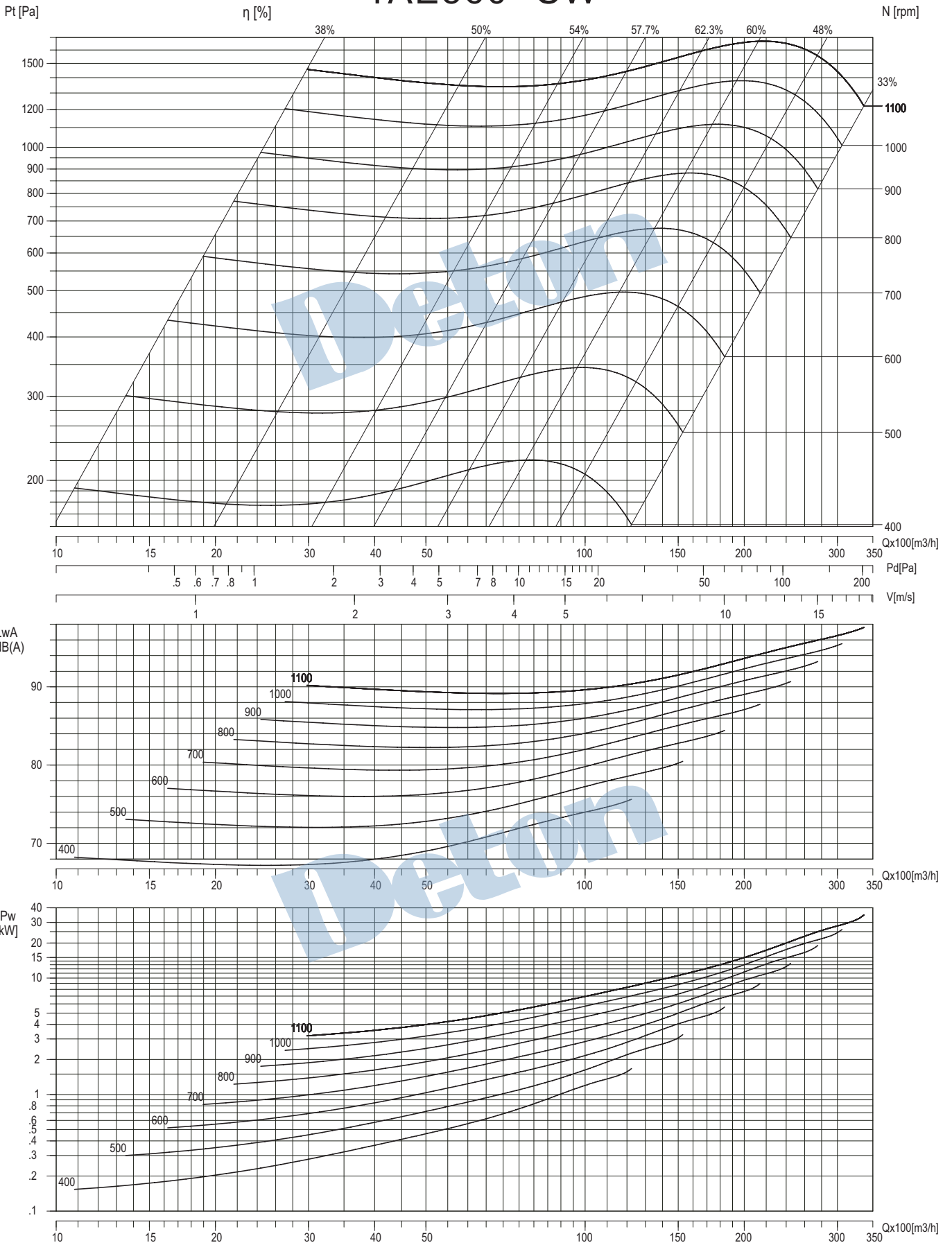
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

Air Density: 1.2 kg/m³

TAE560-SW

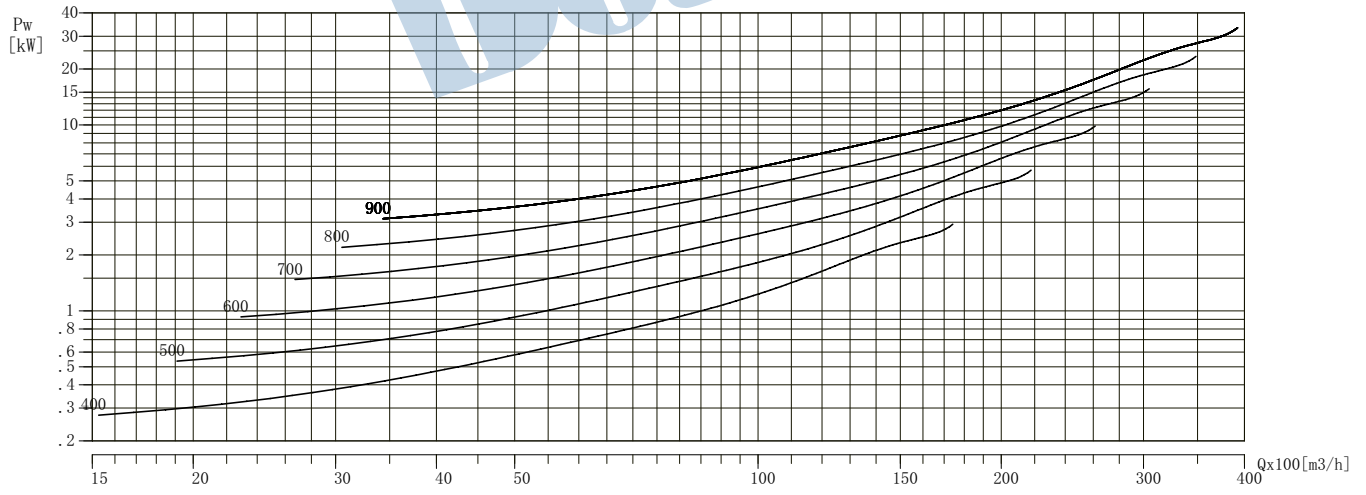
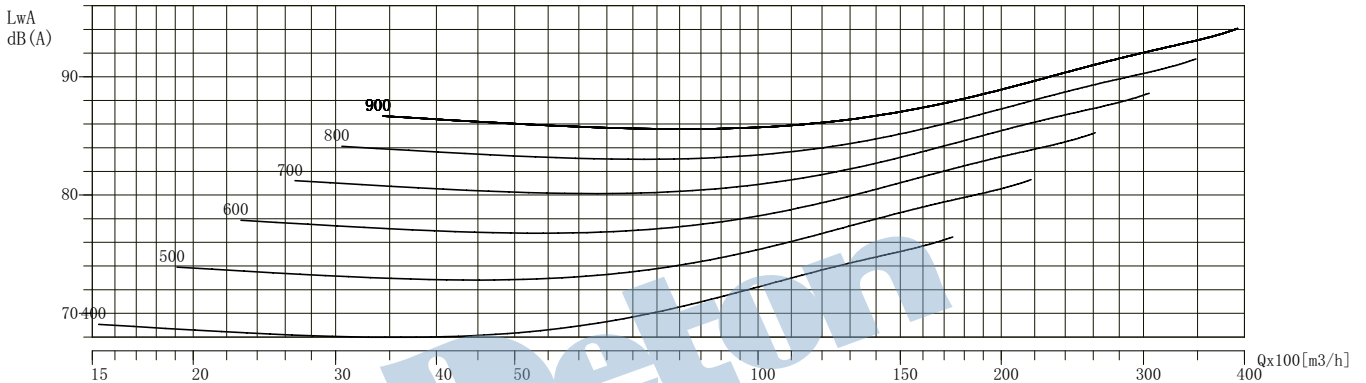
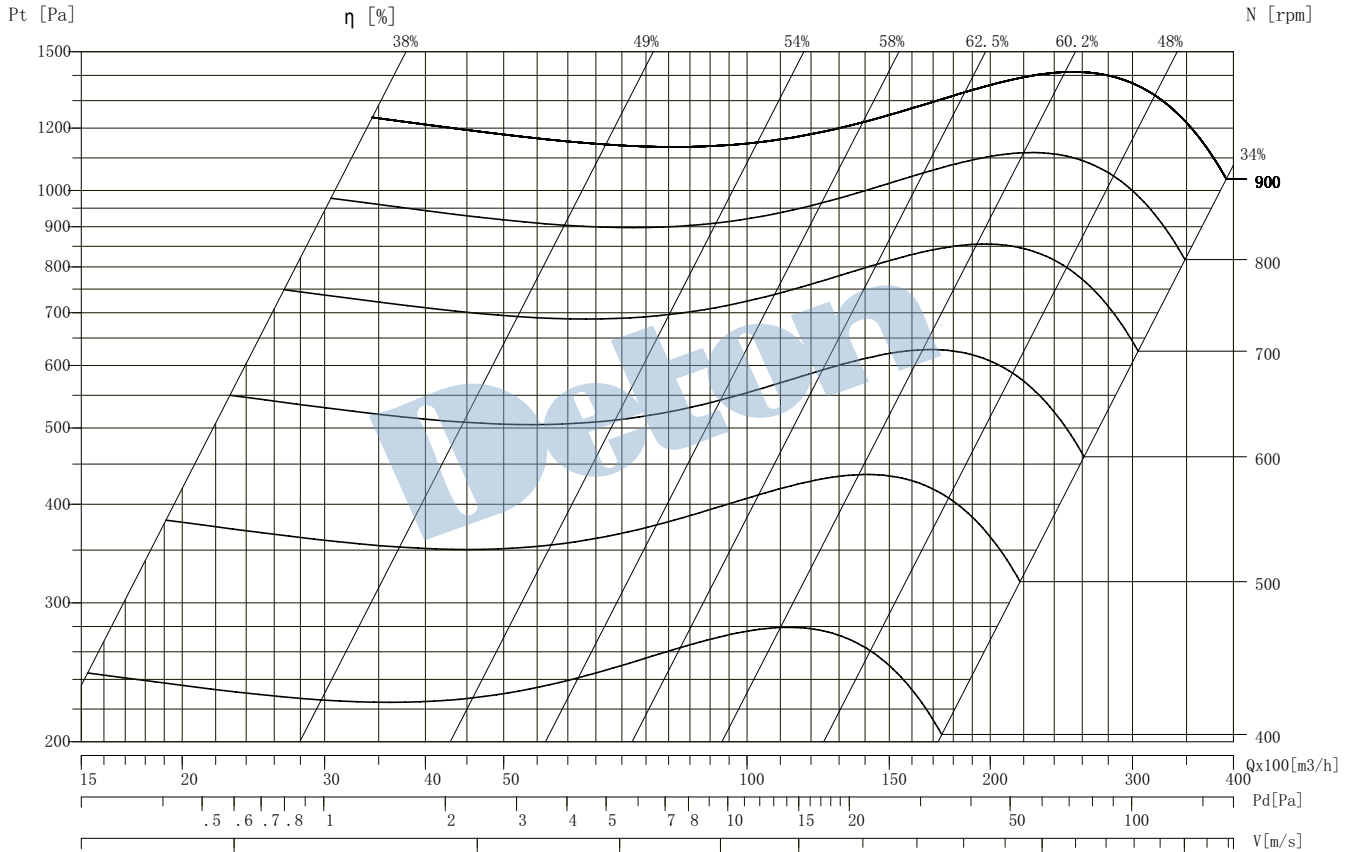


TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE630-SW

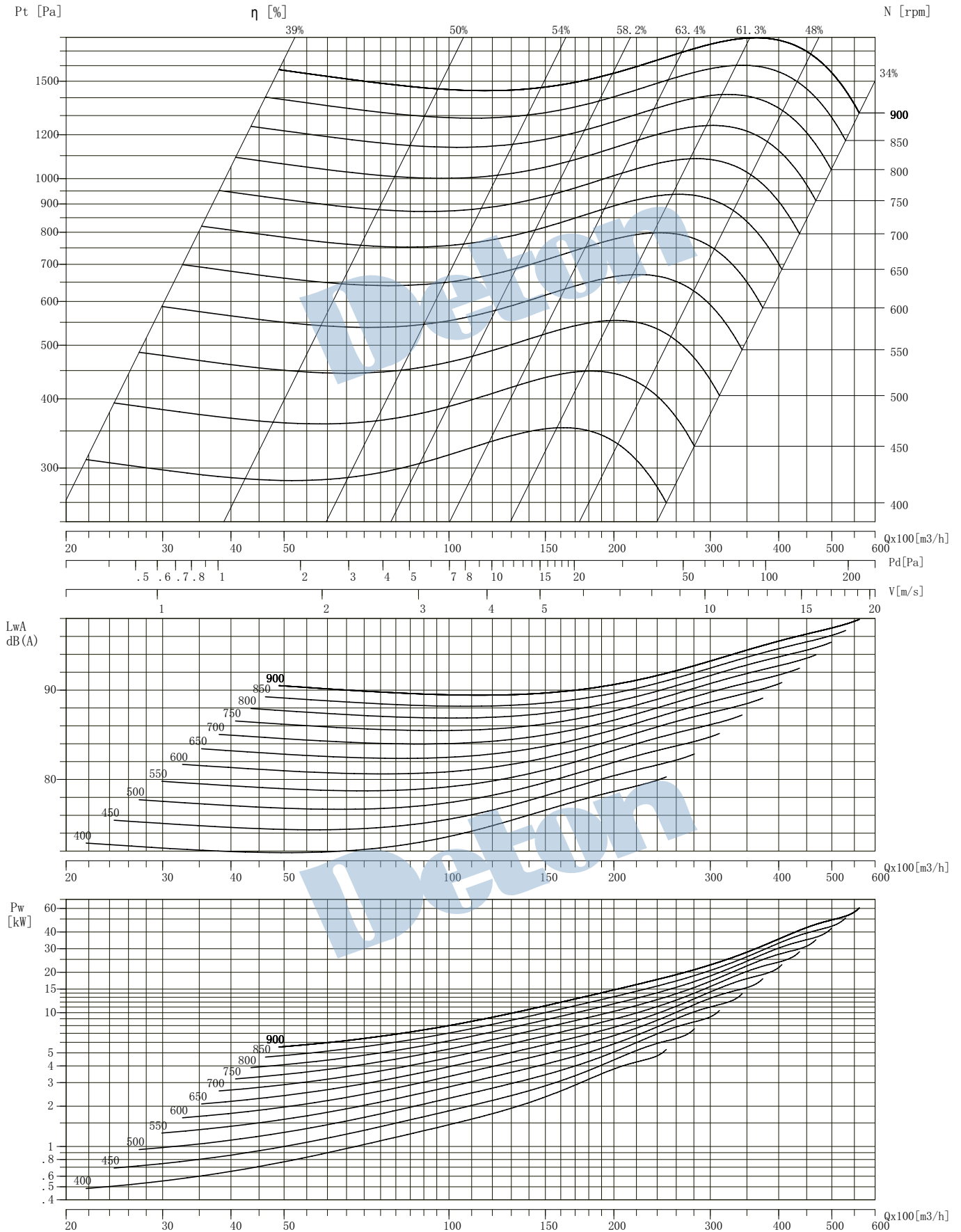
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE710-SW

Air Density: 1.2 kg/m³

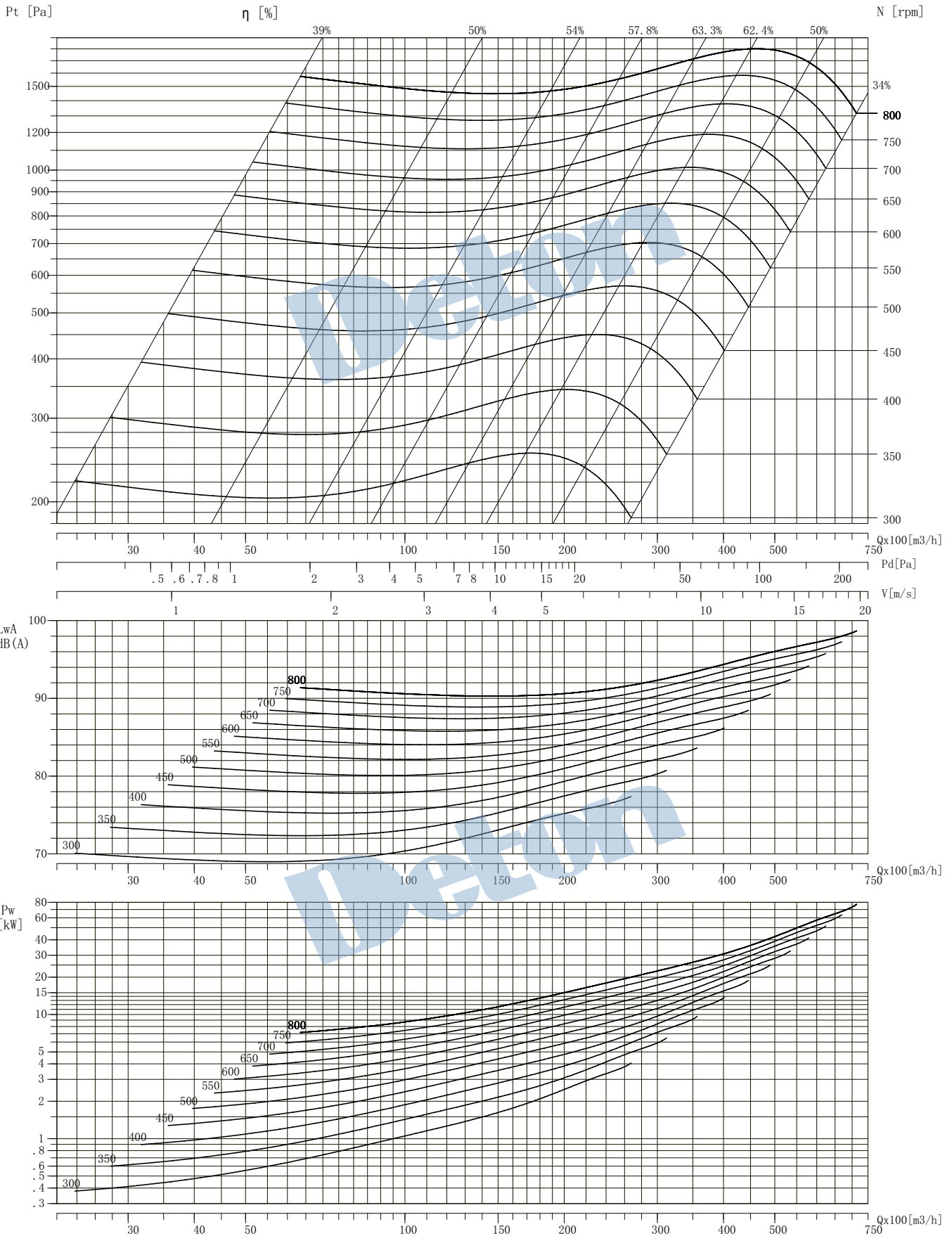


TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE800-SW

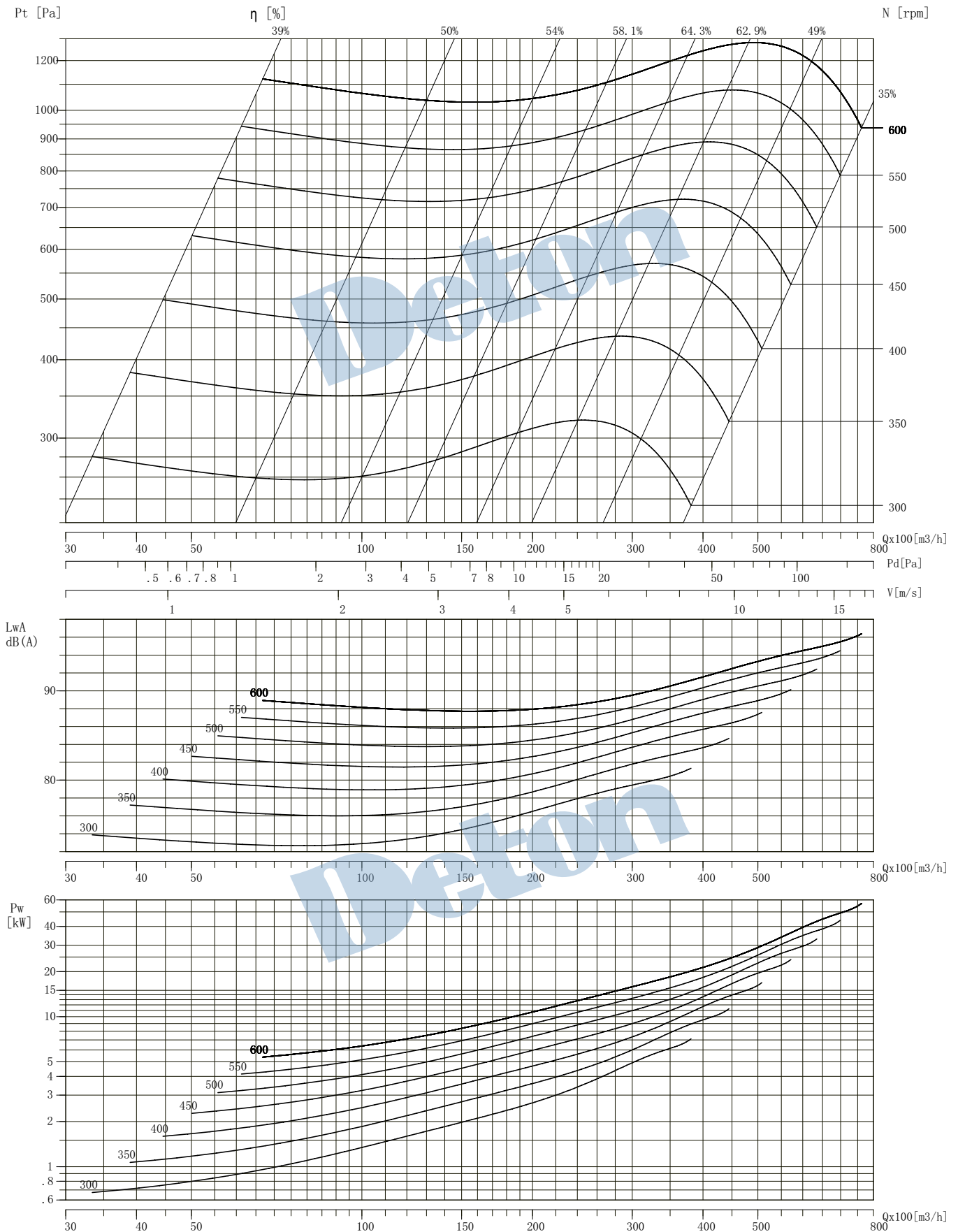
Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

TAE900-SW

Air Density: 1.2 kg/m³

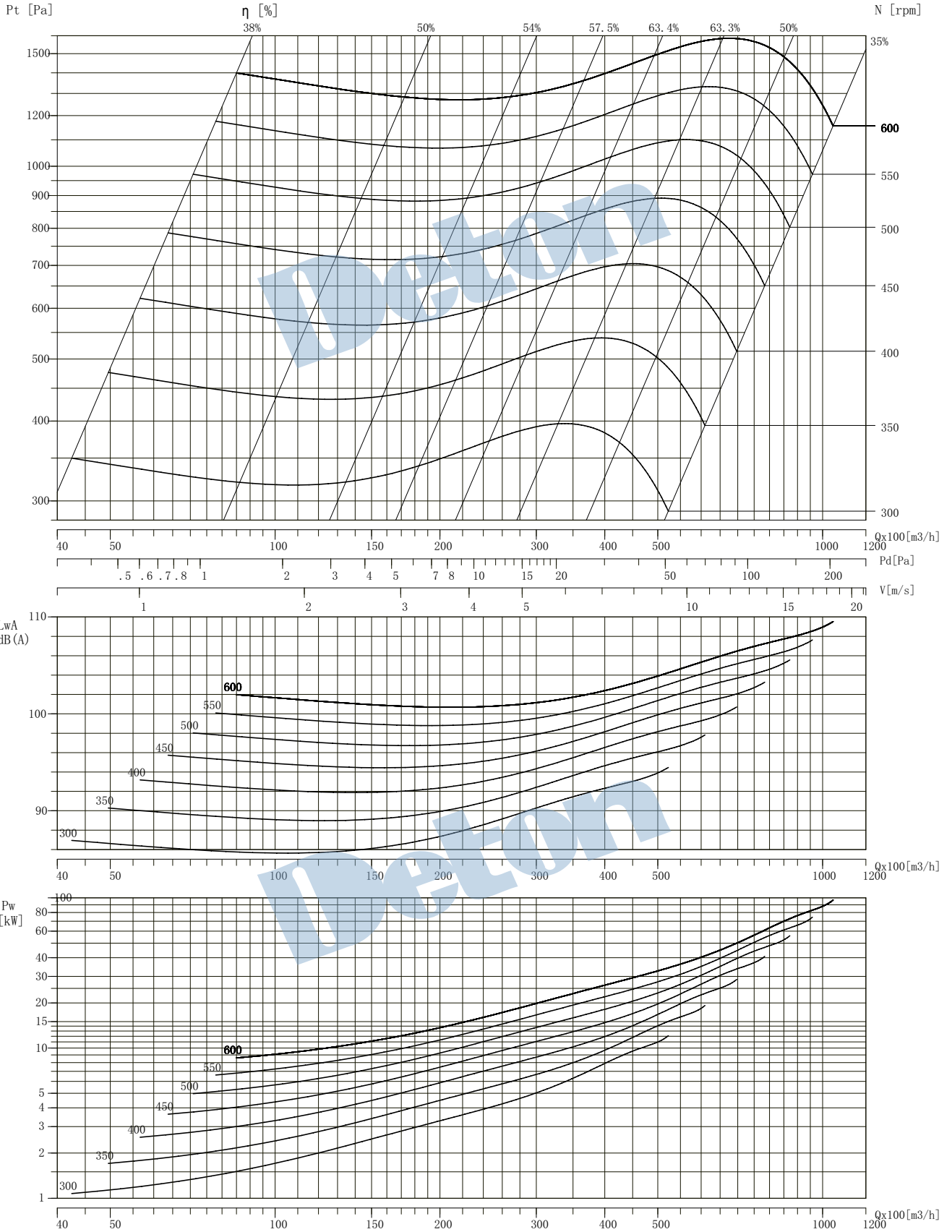


TAE-SW

Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

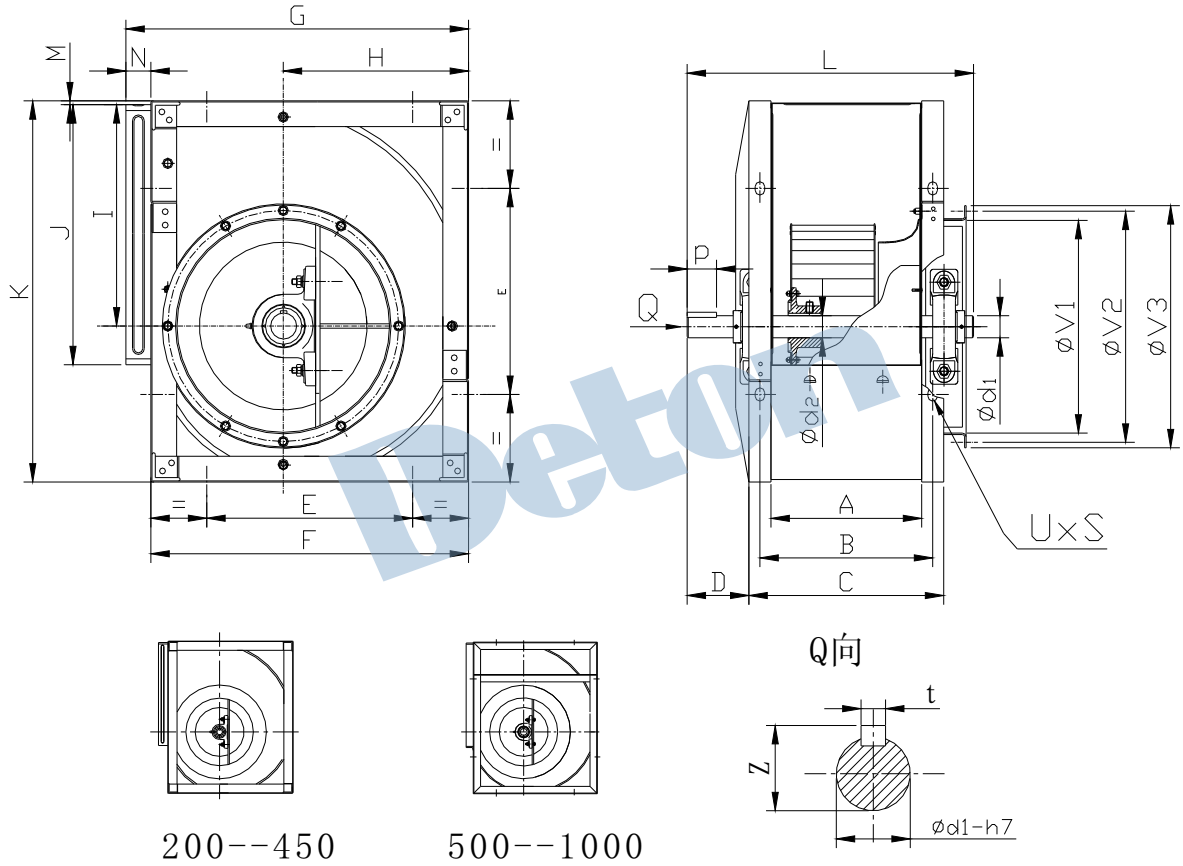
TAE1000-SW

Air Density: 1.2 kg/m³



Performance shown is installation type B-free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings does not include drive losses.

Dimension



200--450

500--1000

mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	∅V1	∅V2	∅V3	M	N	∅d1	∅d2	t	Z	P	UXS
TAE200-SW	146	181	216	57	200	310	347	183	218	249	375	298	202	223	242	4	37	20	20	6	22.8	32	11X16
TAE225-SW	162	197	232	55	225	352	386	206	245	281	419	312	228	250	268	3	34	20	20	6	22.8	32	11X16
TAE250-SW	180	205	230	83	224	383	418	224	271	315	460	348	250	274	290	3	35	25	25	8	28.3	40	11X16
TAE280-SW	205	235	265	84	280	432	466	252	304	355	518	390	286	314	332	3	34	30	30	8	33.3	40	13X18
TAE315-SW	230	260	290	84	280	480	518	282	342	400	578	414	320	356	380	1	38	30	30	8	33.3	40	13X18
TAE355-SW	254	294	334	93	355	548	578	318	385	450	654	457	362	397	420	4	30	35	35	10	38.3	50	13X18
TAE400-SW	280	320	360	93	355	612	650	360	433	504	736	484	410	438	464	4	38	35	35	10	38.3	50	13X18
TAE450-SW	310	350	390	115	530	681	726	404	487	562	827	536	457	490	520	4	45	35	40	10	38.3	63	13X18
TAE500-SW	340	390	440	119	530	771	800	448	543	632	918	550	506	546	570	2	29	35	40	10	38.3	63	13X18
TAE560-SW	378	428	478	133	530	844	892	502	605	712	1030	633	570	600	636	5	48	40	50	12	43.3	80	13X18
TAE630-SW	440	490	540	133	530	945	1012	564	681	800	1157	698	641	680	710	6	67	40	50	12	43.3	80	13X18
TAE710-SW	490	540	590	141	630	1057	1134	636	767	902	1302	763	709	762	800	7	77	45	50	14	48.8	80	17X22
TAE800-SW	540	590	640	141	710	1180	1272	714	864	1003	1468	821	801	860	900	7	92	50	55	14	53.8	90	17X22
TAE900-SW	600	650	690	168	800	1319	1427	804	972	1120	1648	907	906	966	1006	7	108	50	55	14	53.8	110	17X22
TAE1000-SW	665	715	765	169	900	1450	1559	884	1068	1250	1810	974	1016	1074	1110	9	109	55	60	16	59.3	110	17X22

NOTE: Overall size tolerance ±4mm.