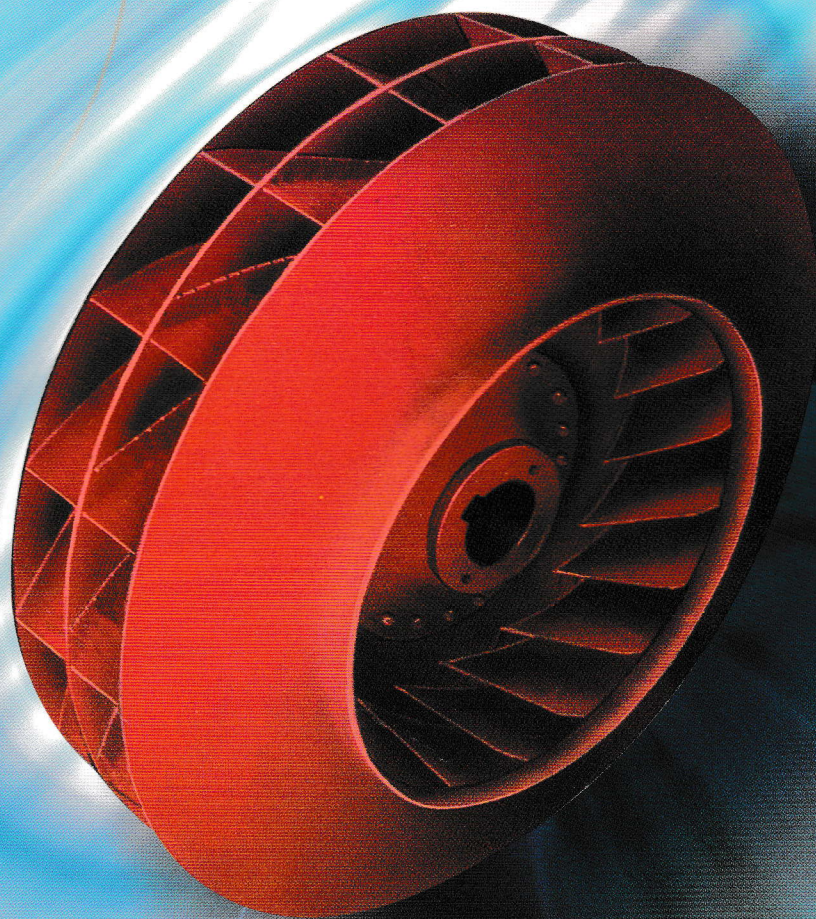


龍楓抽送風機

LONG FONG
FANS & BLOWERS



龍楓機電股份有限公司

LONG FONG ELECTRIC CO., LTD.

沿革

History

龍風創立於50年代產製各種抽送風機和收塵設備，多年來綜合國內外最新學術，積極地從事研究開發並積極引進歐、美、日新銳加工儀器等，經驗及技術和設計人才的養成。使龍風抽送風機能以高效率低噪音，堅固耐用之特色產品行銷全國及海外。

本公司之產品廣泛地使用於各種生產設備，造船、化工、造紙、合板木業、製糖業、水泥、飼料廠、金屬熔解廠，焚化爐、排煙、空調及公害環保防治設備等等。今後本公司仍秉持一貫嚴謹的態度以創新開發的精神，繼續提供高品質，高技術的產品及最佳的服務來答謝客戶的愛護，並自我其許大步邁向龍風更燦爛輝煌的明天。

產品系列

Products

透浦式抽送風機

Turbo Fans and Blowers

高壓透浦式抽送風機

High Pressure Turbo Fans

直翼式抽送風機

Plate Fans and Blowers

翼截式抽送風機

Airfoil Fans

定載式抽送風機

Limit-Load Fans

多翼式抽送風機

Multi-Blade Fans

軸流式抽送風機

Axial-Flow Fans

超底溫軸流式送風機

Super Low-Temperature Axial Flow Fans

Long Fong, established in the early 50s has been dedicated to the manufacturing of various types of fans, blowers and dust-collecting products.

Through out these years, **Long Fong** has spared no efforts in training and cultimating its engineering staff, particularly the design engineers. It has incessantly put in tremendous amount of time and effort into its well planned research and development activities. This includes the studies, evaluations and applications of related new technologies available domestically and abroad in order to produce the latest and upgraded equipment.

In order to continuously manufacture these products in the highest standard of quality, **Long Fong** has acquired latest processing machineries and instruments, from U.S.A, Japan and Europe, to improve and maintain its high standard and reliabilities.

We are proud and able to say that our team of design expertise, with experiences and leading technologies have made what Long Fong is today. Today, **Long Fong's** products enjoy very good sale in Taiwan and overseas, all featuring high efficiency, low noise level, durablilities and robustness.

Our broad range of products are widely used in various manufacturing and servicing industries, such as, ship building, chemical plants, paper mills, plywood and various timber industries, sugar factories, cement mills, animal feed industries, metal melting and steel smelting factories, incinators, smoke and dust extraction systems, airconditioning plants and systems, environment and pollutions control systems, etc.

We appreciate the long association patronage and great confidence of our many customers. We, therefore, are committed to continously maintain manufacturing our various range of products to the highest standard and provide our usual follow-up service policy.

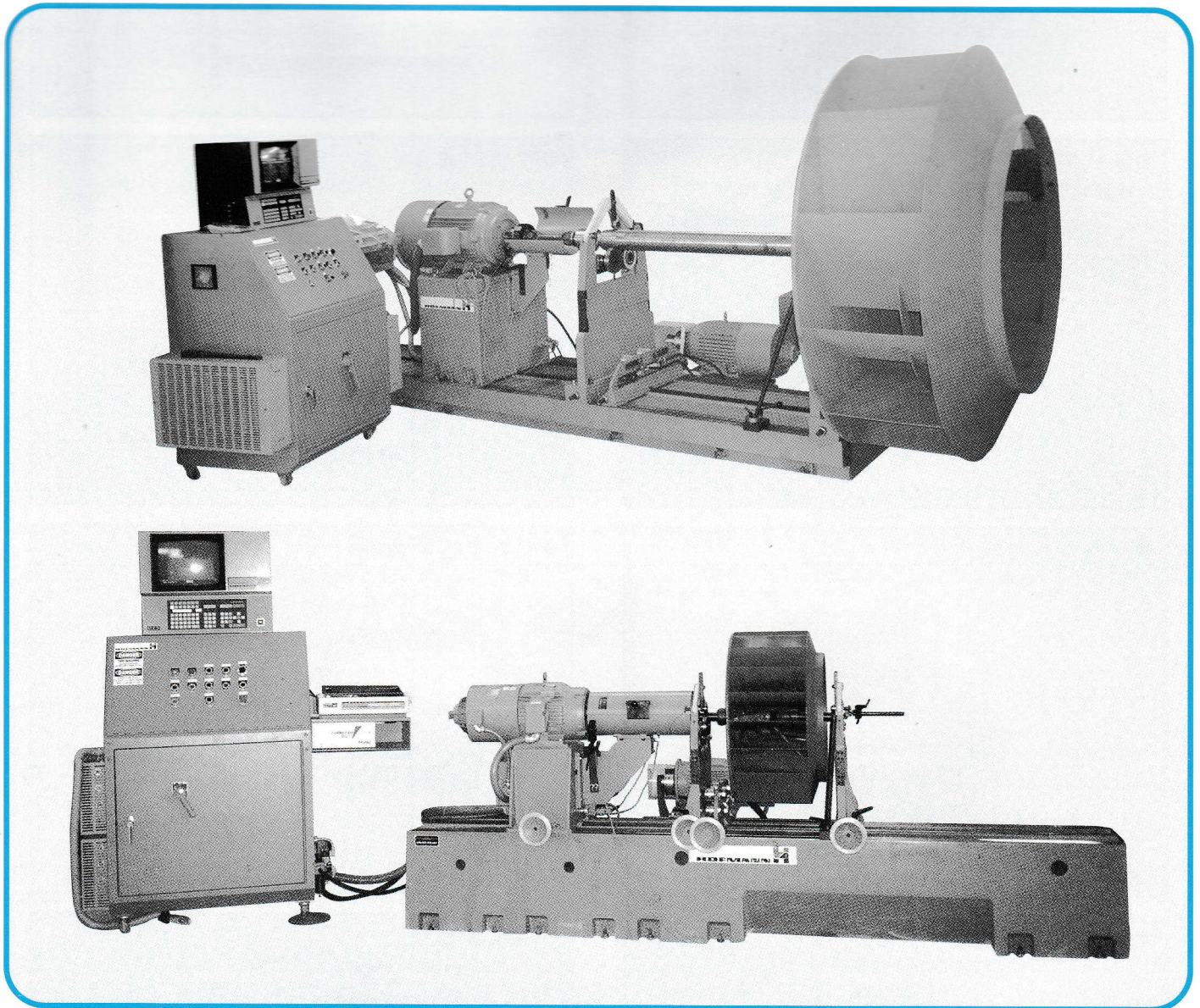


龍風抽送風機動力平衡試驗機

LONG FONG FANS CALIBRATE & DYNAMIC BALANCE EQUIPMENT

本公司為各種抽送風機及集塵設備之專業工廠，為提高產品之品質，自歐、美、日，國家引進最新型高精密度動力平衡試驗機數部，並為各種回轉體作精密而正確之校正。

Long Fong is a specialised establishment with the aim of producing the best quality of industrial fans, blowers and dust collecting equipment. In order to meet the high expectations of the customers, Long Fong has acquired a number of latest and precise equipment (from USA, Japan and Europe) to accurately calibrate and balance its finished products for efficiency and reliable service.



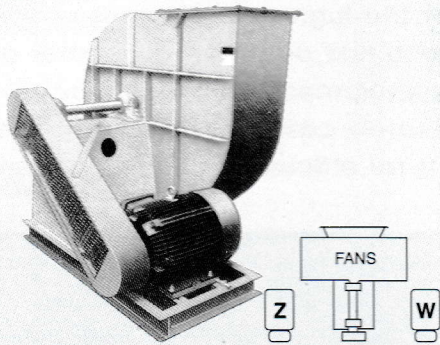
處理範圍 THE RANGE OF OPERATION	型式 Model	H-16.1	H-19	H-24
最大操作直徑m/m φ THE MAXIMUM OPERATION DIAMETER m/m		500mm φ	1000mm φ	3000mm φ
最大操作長度m/mL THE MAXIMUM OPERATION LENGTH m/mL		1000mmL	4000mmL	6600mmL
最大容許重量kg THE MAXIMUM CAPACITY WEIGHT kg		80kg	450kg	4500kg



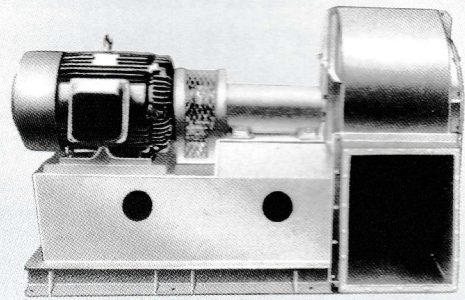
龍風抽送風機傳動方式參考圖

LONG FONG FANS-DRIVE METHOD REFERENCE CHARTS

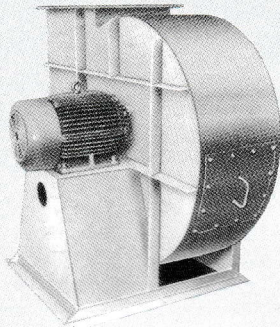
●皮帶驅動式
BELT-DRIVE TYPE



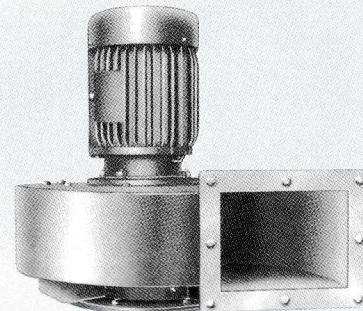
●聯結器直結驅動式
DIRECT.COUPLING DRIVEN TYPE



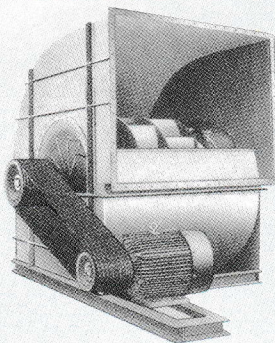
●臥式馬達直結式
HORIZONTAL MOTOR DIRECT.COUPLING TYPE



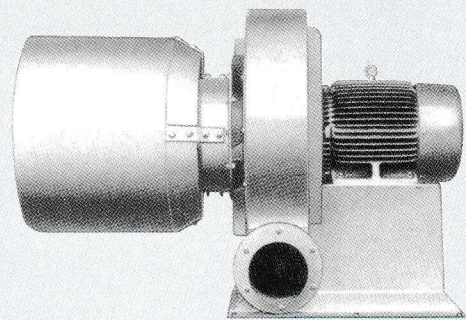
●立式馬達直結式
VERTICAL MOTOR DIRECT.COUPLING TYPE



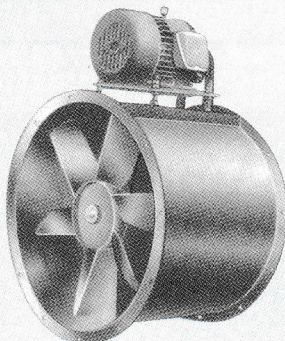
●皮帶雙入口式
BELT DRIVEN WITH DOUBLE INPUTS TYPE



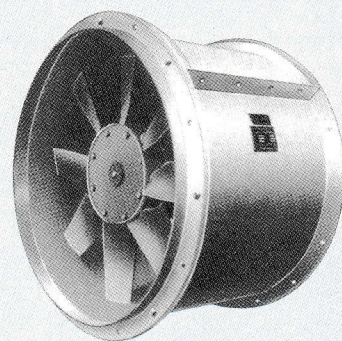
●吸入風口消音器
SUCTION NOISE DAMPING DEVICE



●軸流皮帶驅動式
AXIAL-FLOW BELT DRIVEN TYPE



●軸流直結式
AXIAL DIRECT.COUPLING TYPE



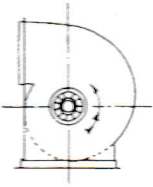


龍風抽送風機出口方向之選擇

LONG FONG FANS-DISCHARGE DIRECTIONS

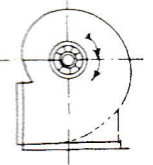
請面對皮帶輪或馬達
FACING PULLEY OR MOTOR

風管裝配法如圖：
DUCT CONNECTIONS



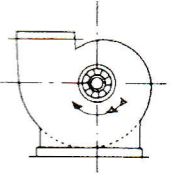
① 上部水平
反時計回轉

top, horizontal and counter-clockwise



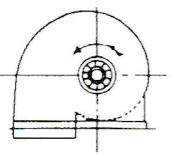
③ 下部水平
時計回轉

bottom, horizontal and clockwise



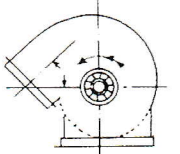
⑤ 上方向
時計回轉

top, upright and counter-clockwise



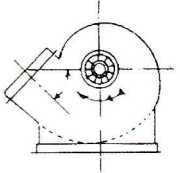
⑦ 下方向
反時計回轉

bottom, downright and counter-clockwise



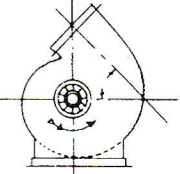
⑨ 上部斜下向
反時計回轉

skew down from top and counter-clockwise



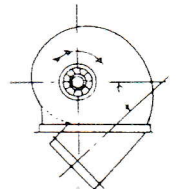
⑪ 下部斜上向
時計回轉

skew up from bottom and clockwise



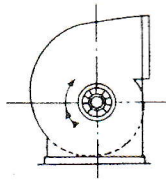
⑬ 上部斜上向
反時計回轉

skew up from top and counter-clockwise



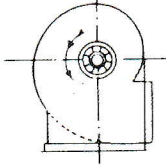
⑮ 下部斜下向
時計回轉

skew down from bottom and clockwise



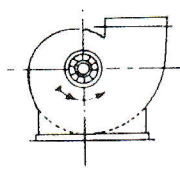
② 上部水平
時計回轉

top, horizontal and clockwise



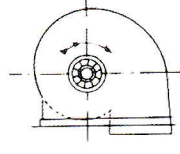
④ 下部水平
反時計回轉

bottom, horizontal and counter-clockwise



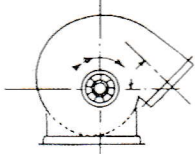
⑥ 上方向
反時計回轉

top, upright and counter-clockwise



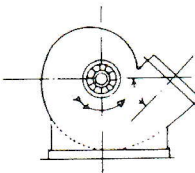
⑧ 下方向
時計回轉

bottom, downright and clockwise



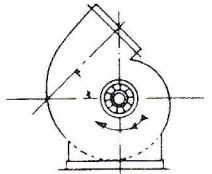
⑩ 上部斜下向
時計回轉

skew down from top and clockwise



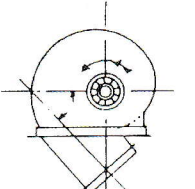
⑫ 下部斜上向
反時計回轉

skew down from top and clockwise



⑭ 上部斜上向
時計回轉

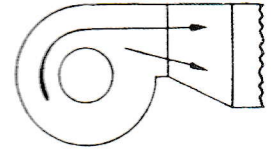
skew up from top and clockwise



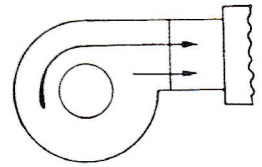
⑯ 下部斜下向
反時計回轉

skew down from bottom and
counter-clockwise

對
correct



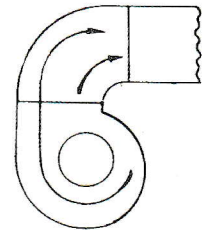
錯
wrong



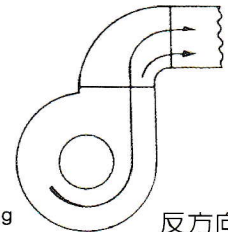
急擴大

due to abrupt change
in duct size

對
correct



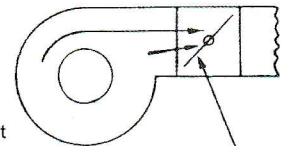
錯
wrong



反方向

due to reverse direction

對
correct



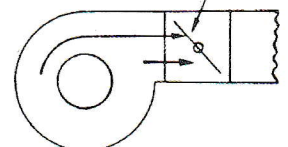
開關

Damper

Damper orientation correct

開關

錯
wrong

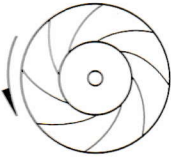
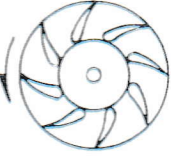
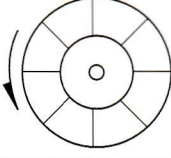
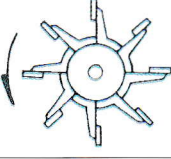
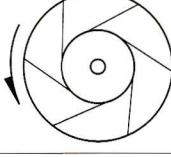
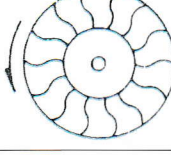
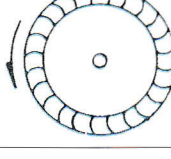
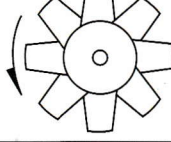


Damper orientation incorrect



龍風抽送風機葉輪構造及用途

LONG FONG FANS-BLADE CONFIGURATIONS & APPLICATIONS

型 式	葉 輪 構 造	特 徵 與 用 途
透 浦 式 Turbo Type		此為一般最常用的機種，葉片呈後向彎曲 (back-ward bending)。構造堅固故可高速旋轉，自低壓至高壓均可製出。其葉輪容許少量灰塵進入，但不耐大量之灰塵。適用於所有各種氣體的輸送或集塵設備之抽風等。用途最為廣泛。
翼 截 式 Airfoil Type		此係透浦式之改良型，其葉片依飛機翼型製造，效率高，且具有定載性(limit load characteristic)不虞馬達超載。其噪音亦為所有機種中之最低者。適用於一般之通風設備，如辦公大樓或工廠之空氣調節，各種窯爐之送風等。
直 翼 式 Plate Type		此葉輪之葉片出口角度呈徑向輻射而出。有時與槳葉式同稱為板葉式(Plate type)。其葉輪較耐磨損，容許固體進入。適用於中含塵量之集塵設備或粉粒體之輸送，亦適用於各種窯爐之抽風等。
槳 葉 式 Paddole Type		此係由直翼式轉變而得的型式。其葉輪並無側板，葉片完全成單獨板狀，因構造關係轉數不宜過高，但較耐磨且粉塵不易附著，容許高含量的氣體進入，及有線狀之含塵更易於排出，適用於各種窯爐的直接抽風，集塵設備以及粉粒體輸送。
徑 向 式 Radial Type		此葉輪呈後向直翼式，具備翼型，定載式及靜音之特性，結構簡單耐磨損亦堅固，容許固體進入不易附著，適用於鍋爐之送風，集塵設備，粉粒輸送及一般工廠之強力通風。
定 載 式 Limit Load Type		此葉輪葉片為S型，係透浦式與多翼式之綜合改良型，具有定載性故通稱定載式，其葉輪容許微粉進入，適用於一般之排氣換氣及窯爐之循環風扇等。
多 翼 式 Siroco Type		此葉輪之葉片呈前向彎曲(forward bending)片數多達數十片。風量較大，但因葉輪構造簡單僅適於低速旋轉，故壓力低。其葉輪直徑每6吋為1號。適用於工廠或建築物之空氣調節，冷氣輸送等。
軸 流 式 Axial Type		此送風機之風向與轉軸同向，置於管路中按裝與拆解皆甚方便。其風量大、壓力低。風門全開時所需馬力最低，與離心形剛好相反。外形可分為馬達內藏型，皮帶驅動型與曲管型等。適用於紡織工廠、船舶、墜道或冷水塔通風等。

- ★ 附件選用 (Accessory)：可附裝清除孔、排洩孔、出入口開關、消音器、出入口方轉圓或圓轉方管等。
- ★ 冷卻方法 (Cooling)：輸送常溫氣體可用空冷式軸承，高溫氣體則用水冷式或特殊空冷式。
- ★ 材質選擇 (Material)：包括一般鋼板、不銹鋼板、耐磨鋼板、鑄鋁合金、鋁板、鑄鐵等。
- ★ 潤滑方式 (Lubrication)：低速旋轉者採用滑脂潤滑，高速旋轉者採用浸油、噴油或強制潤滑。
- ★ 驅動方式 (Drive)：利用三角皮帶、聯結器直結或馬達軸直結等三種方式驅動。
- ★ 特殊加襯 (Lining)：為耐酸、耐鹼、耐磨，可施以FRP加襯、橡膠加襯、鋼板加襯等。
- ★ 平衡校正 (Balancing)：葉輪及皮帶輪，都經本公司動力平衡試驗機細心校正。



送風機的選定及性能圖之選擇

SIZING FANS & BLOWERS USING PERFORMANCE CHARTS

選定圖係按照每個送風機的順序，定為橫軸表示風量(m³/min)，縱軸表示靜壓(mmAq)，則其交點的回轉數，就是送風機的回轉數，包含交點的動力的範圍為所需要的馬力。

選定例 (參照右圖) Example(refer to the performance chart on the right):
機型：TFB-5 1/2 Model：TFB - 5 1/2"
風量=260 m³/min Volume Capacity：260 m³/min
靜壓=340 mmAq Static pressure: 340 mmAq

選定程序

- 1 風量：由橫軸260m³/min之點畫垂直線。
- 2 靜壓：由縱軸340mmAq 之點畫水平線。
- 3 馬力：由交點的範圍內求得。(30HP)
- 4 轉數：由交點右下角求得。(1610RPM)

此型錄選定圖以吸進標準吸入狀態的空氣(比重1.2 kg/m³)為基準。吸入狀態的空氣(絕對壓力760mmHg、溫度20°C、濕度65%、比重量1.2 kg/m³)若操作規格不同於上述條件時，請由下面的公式換算後選定。

1. 吸入空氣20°C以外的情形

$$PS = \frac{T+t_1}{T+20} \times PS_1 \quad L_1 = \frac{T+20}{T+t_1} \times L$$

2. 比重量不同的氣體的情形

$$PS = \frac{1.2}{r_1} \times PS_1 \quad L_1 = \frac{r_1}{1.2} \times L$$

PS：換算成標準狀態(選定圖)的靜壓(mmAq)

PS₁：使用狀態的靜壓(mmAq)

L：標準狀態的電動機馬力(HP)

L₁：使用狀態的電動機馬力(HP)

T：絕對溫度273°K

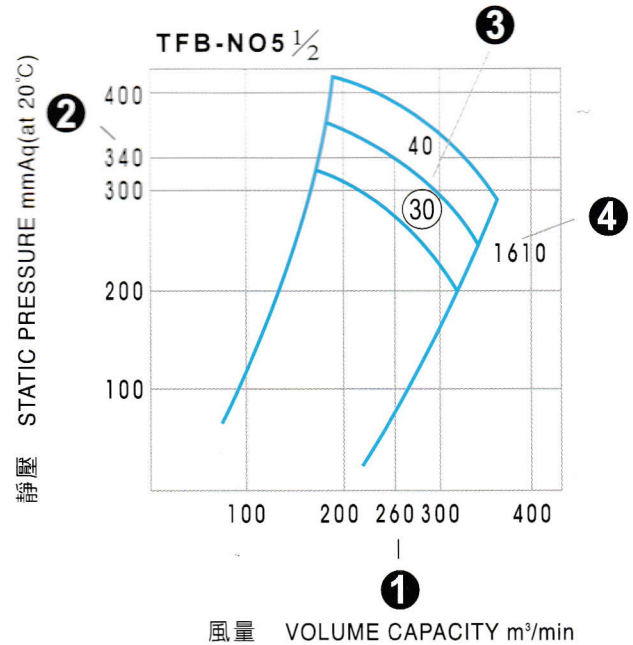
t₁：氣體的溫度(°C)

r₁：氣體的比重量(kg/m³)

Sizing procedures:

1. Locate volume of 260 m³/min on the x-axis and draw a vertical line therefrom.
2. Locate static pressure of 340 mmAq on the y-axis and draw a horizontal line therefrom.
3. horsepowers can be readily read out from the horsepower region where the intersection of the vertical and the horizontal lines drawn in 1. and 2. is in it is found to be 30HP for this instance.
4. Revolution in rpm is provided lower right to the intersection and is found to be 1610 rpm in this case.

Performance charts for all models of fans/blowers are provided herewith in due order, in which the x-axis denotes volume in m³/min while the y-axis indicates static pressure in mmAq. Example below shows how to size a blower, with known requirements on volume and static pressure.



The performance charts provided in this catalogue are made basing upon standard conditions for the sucked air as below:

- ▲ Specific weight of sucked air: 1.2 kg/m³
- ▲ Absolute pressure: 760 mmHg
- ▲ Ambient temperature: 20°C
- ▲ Humidity: 65%

if operating conditions are different from those described above, following formulas should be used to get them adjusted accordingly:

1. For temperature deviations

$$PS = \frac{T+t_1}{T+20} \times PS_1 \quad L_1 = \frac{T+20}{T+t_1} \times L$$

2. For specific weight deviations

$$PS = \frac{1.2}{r_1} \times PS_1 \quad L_1 = \frac{r_1}{1.2} \times L$$

Where PS = Static pressure already adjusted to be equivalent to standard conditions.

PS₁ = operating static pressure (mmAq)

L = Motor horsepowers (HP) with reference to standard conditions

L₁ = Motor horsepowers (HP) with reference to operating conditions

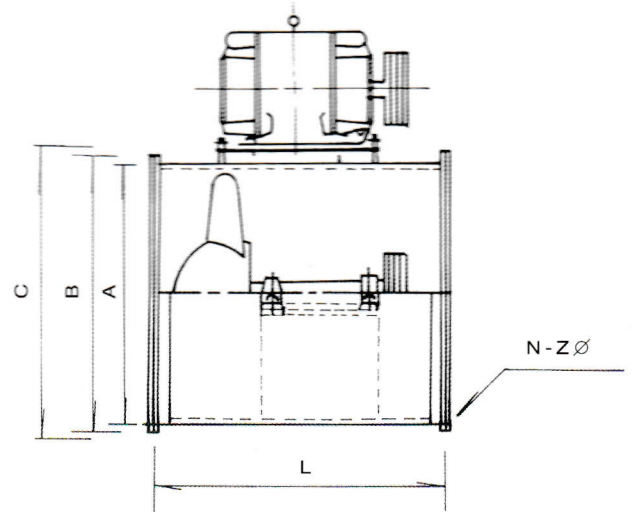
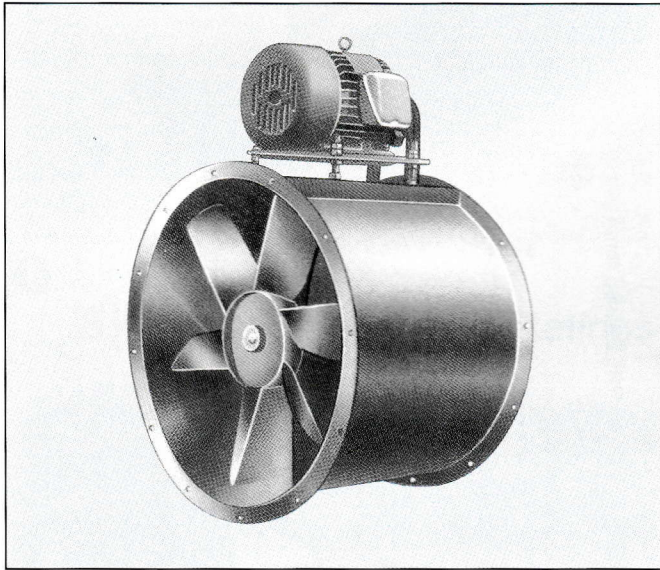
T = Absolute temperature 273°K

t₁ = Sucked air temperature (°C)

r₁ = Sucked air specific weight (kg/m³)

本機型為皮帶驅動式，以最少之馬力達到最佳之效果，風量特大配合密閉式軸承保養簡便，適用於一般低風壓高風量之場所。

The fan is belt driven by a small motor. It is well constructed and fitted with sealed bearings for easy maintenance and reliable service. It is highly efficient for static pressure and great volume in ventilation applications.



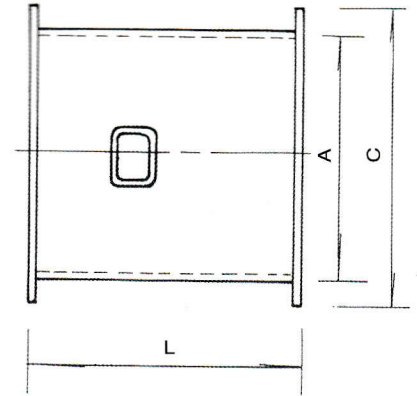
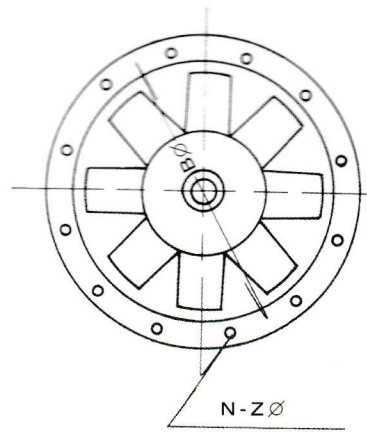
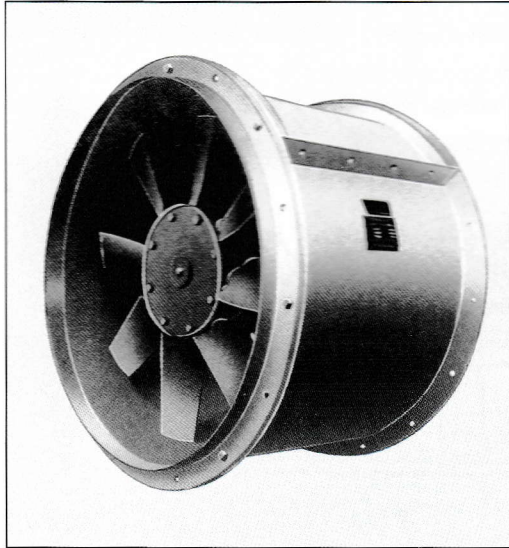
選擇及能量 Selections & Ratings

型 式 TYPE	電 動 機		風 量 m ³ /min	靜 壓 mmAq	尺 寸 (Dimensions)mm				
	HP	RPM			A	B	C	L	N-Z φ
AFB-20	1/2	1400	60	10	520	550	580	450	14-10
	1	1600	100	15	520	550	580	450	14-10
AFB-22	1	1670	120	15	570	600	630	500	14-11
	2	2100	140	25	570	600	630	500	14-11
AFB-24	1	1390	130	12	625	655	685	550	16-11
	2	1750	170	20	625	655	685	550	16-11
	3	1970	200	25	625	655	685	550	16-11
AFB-32	2	1060	240	15	830	880	930	700	18-15
	3	1210	280	20	830	880	930	700	18-15
	5	1450	320	30	830	880	930	700	18-15
AFB-36	3	960	350	15	935	985	1035	800	18-15
	5	1200	400	25	935	985	1035	800	18-15
	7 1/2	1400	450	30	935	985	1035	800	18-15
AFB-40	5	910	500	20	1035	1085	1135	900	20-15
	7 1/2	1200	550	25	1035	1085	1135	900	20-15
AFB-48	5	760	560	15	1240	1305	1370	1000	24-17
	7 1/2	870	650	20	1240	1305	1370	1000	24-17
	10	960	730	25	1240	1305	1370	1000	24-17
AFB-56	7 1/2	620	900	15	1445	1510	1575	1100	28-17
	10	710	1000	20	1445	1510	1575	1100	28-17
	15	810	1200	25	1445	1510	1575	1100	28-17
	20	900	1350	30	1445	1510	1575	1100	28-17

本機為鋁合金鑄造翼截型扇葉，可調整節矩，改變風量及風壓之大小且節省馬力，適用於一般通風換氣，用途最為廣泛。

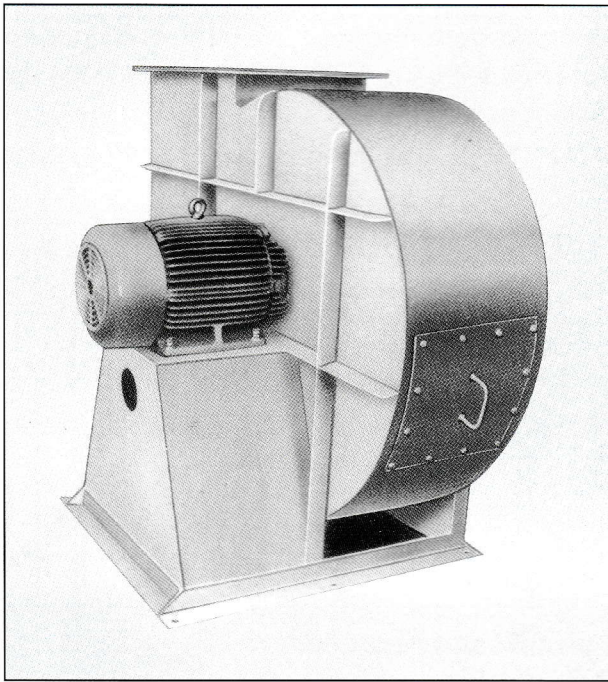
The fan is equipped with aeroflow blades for efficient and reliable performance. The air flow output can be regulated by selecting the right motors to suit the relevant operations or requirements.

It is widely used for general ventilation purposes.



選擇及能量 Selections & Ratings

型 式 TYPE	馬 力 HP	轉 數 RPM	風 量 m ³ /min	靜 壓 mmAq	尺 寸 (Dimensions)mm				
					A	B	C	L	N-Z φ
VAF-20	2	1750	135	15	520	550	580	450	14-11
VAF-24	3	1750	195	15	625	655	685	480	16-11
VAF-28	3	1160	260	13	725	765	805	550	16-11
	5	1750	290	15	725	765	805	550	16-11
VAF-30	3	970	300	13	780	820	860	600	16-13
	5	1160	340	20	780	820	860	600	16-13
	7½	1750	358	30	780	820	860	600	16-13
VAF-32	5	1160	360	20	830	880	930	600	18-15
	7½	1750	370	25	830	880	930	620	18-15
	10	1750	430	35	830	880	930	650	18-15
VAF-36	5	1160	398	15	935	985	1035	650	18-15
	7½	1160	460	20	935	985	1035	650	18-15
	10	1750	492	30	935	985	1035	650	18-15
VAF-42	7½	1160	549	15	1085	1135	1185	680	22-15
	10	1160	650	20	1085	1135	1185	780	22-15
	15	1750	670	30	1085	1135	1185	780	22-15
VAF-48	15	1160	948	20	1240	1305	1370	850	24-17
	20	1160	1000	30	1240	1305	1370	900	24-17
	25	1160	1020	40	1240	1305	1370	900	24-17
VAF-54	20	1160	1245	20	1390	1455	1520	900	28-19
	25	1160	1302	30	1390	1455	1520	950	28-19
	30	1160	1443	40	1390	1455	1520	950	28-19



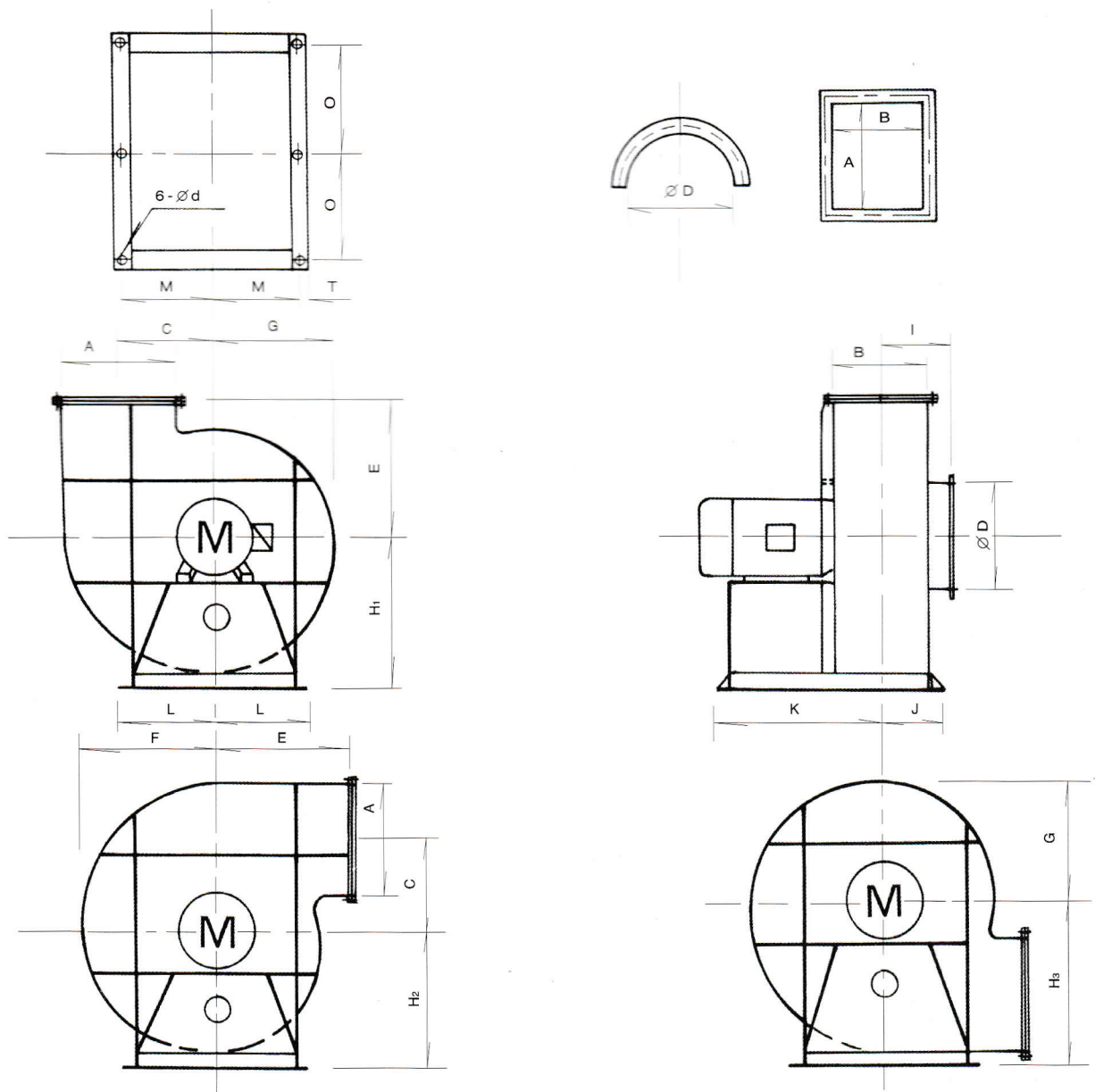
本機為透浦式馬達直結驅動，構造堅實佔地小，效率高，保養簡便適用於一般之集塵設備，鍋爐強制送風，氣體輸送等，皆廣採用。

The fans are turbo type and directly coupled to motors. They are rugged, compact, efficient and easy to maintain.

They are widely used for dust collecting equipment, forced air supplies, transfer of air, etc.

選擇及能量 Selections & Ratings

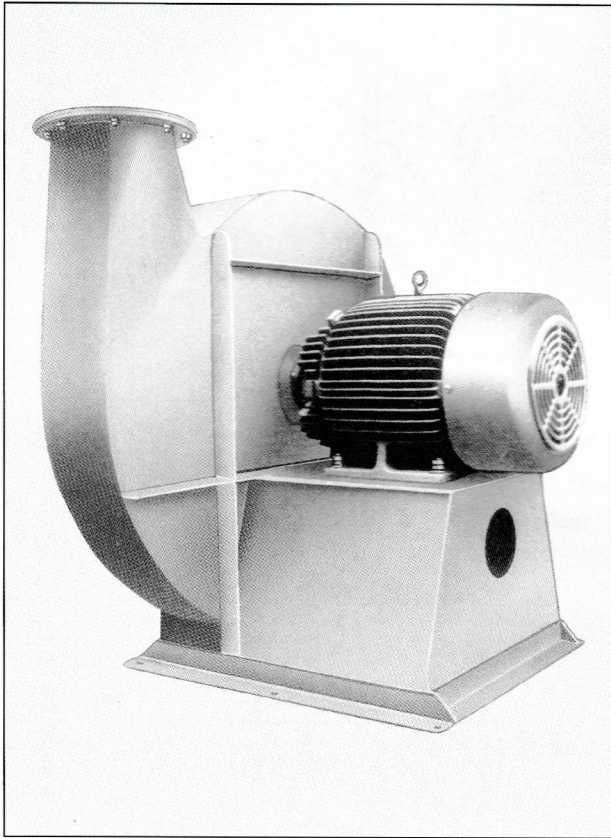
型式 TYPE	3500 RPM			2900 RPM		
	風量	靜壓	馬力	風量	靜壓	馬力
	m ³ /min	mmAq	HP	m ³ /min	mmAq	HP
TFDA-1 $\frac{3}{4}$	14	150	1	11	105	$\frac{1}{2}$
TFDA-2A	12	180	1	10	120	$\frac{1}{2}$
TFDA-2B	24	180	2	20	120	1
TFDA-2 $\frac{1}{4}$ A	24	200	2	20	135	1
TFDA-2 $\frac{1}{4}$ B	26	260	3	22	180	2
TFDA-2 $\frac{1}{2}$ A	32	220	3	27	155	2
TFDA-2 $\frac{1}{2}$ B	40	280	5	34	200	3
TFDA-2 $\frac{3}{4}$ A	45	260	5	38	180	3
TFDA-2 $\frac{3}{4}$ B	50	300	7 $\frac{1}{2}$	42	215	5
TFDA-3A	45	270	5	38	188	3
TFDA-3B	56	300	7 $\frac{1}{2}$	45	215	5
TFDA-3C	74	380	10	62	275	7 $\frac{1}{2}$
TFDA-3 $\frac{1}{2}$ A	98	360	15	80	260	10
TFDA-3 $\frac{1}{2}$ B	128	360	20	105	275	15
TFDA-3 $\frac{1}{2}$ C	140	450	25	115	310	20
TFDA-4A	142	450	25	116	340	20
TFDA-4B	150	450	30	130	350	25
TFDA-4C	180	500	40	150	370	30
TFDA-4 $\frac{1}{2}$ A	190	500	40	158	350	30
TFDA-4 $\frac{1}{2}$ B	230	500	50	190	370	40
TFDA-4 $\frac{1}{2}$ C	250	550	60	230	400	50
TFDA-5A	265	500	60	230	380	50
TFDA-5B	280	600	75	235	450	60
TFDA-5C	320	700	100	265	520	75



尺寸表 Dimensions

單位UNIT:mm

編號	記號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	O	T	φd
1 ³ / ₄		150	120	185	150	190	230	205	260	235	295	90	90	260	150	138	163	12	10
2		200	150	190	200	230	260	225	290	255	325	105	105	325	160	148	203	12	10
2 ¹ / ₄		200	180	230	200	240	290	260	330	300	375	130	130	350	190	174	224	16	12
2 ¹ / ₂		250	200	235	250	280	320	285	360	320	415	140	140	390	190	174	249	16	12
2 ³ / ₄		300	250	250	300	300	345	305	385	345	445	175	165	445	220	204	289	16	12
3		300	250	280	300	330	360	310	400	350	475	175	165	445	250	234	289	16	12
3 ¹ / ₂		350	250	320	350	370	435	375	485	425	550	175	175	575	280	258	353	22	15
4		400	300	400	400	400	505	440	570	505	680	215	215	615	325	295	385	30	19
4 ¹ / ₂		450	350	425	450	460	570	495	635	560	725	240	240	710	345	315	445	30	19
5		500	400	480	500	520	620	530	685	595	805	265	265	845	385	355	525	30	19



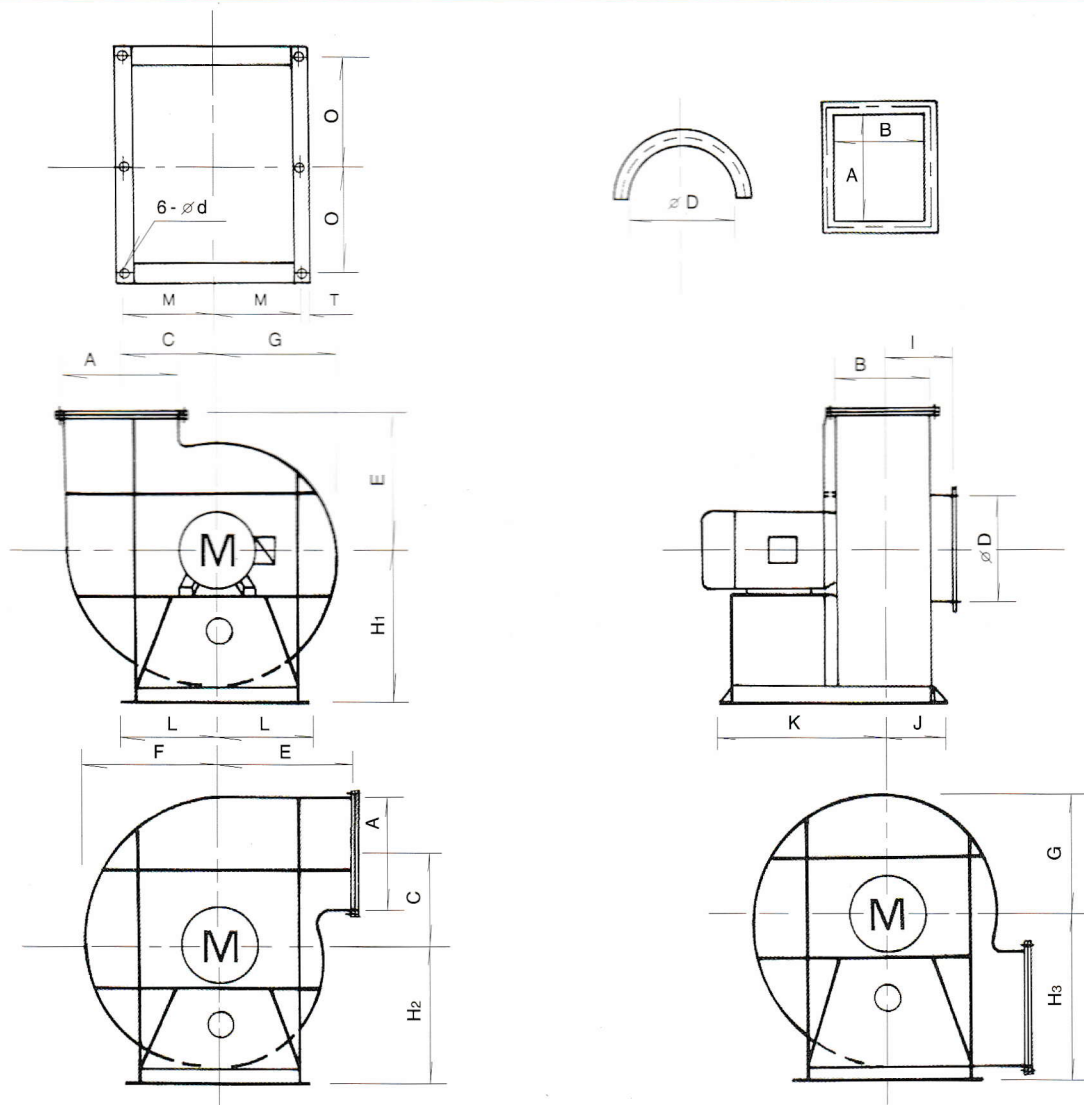
本機為高壓透浦式馬達直結驅動型其靜壓較TFD-A為高，構造堅實佔地小，效率高，適用於飼料、麵粉、塑膠廠之粉粒體收集及氣體輸送皆廣採用。

The fans are high pressure turbo type and directly coupled to motors. The output pressure is greater than type "TFD-A". They are rugged, compact, efficient and easy to maintain.

They have been widely used in animal feed factories, flour mills, powder and solid particular collections in plastic factories and transfer of air.

選擇及能量 Selections & Ratings

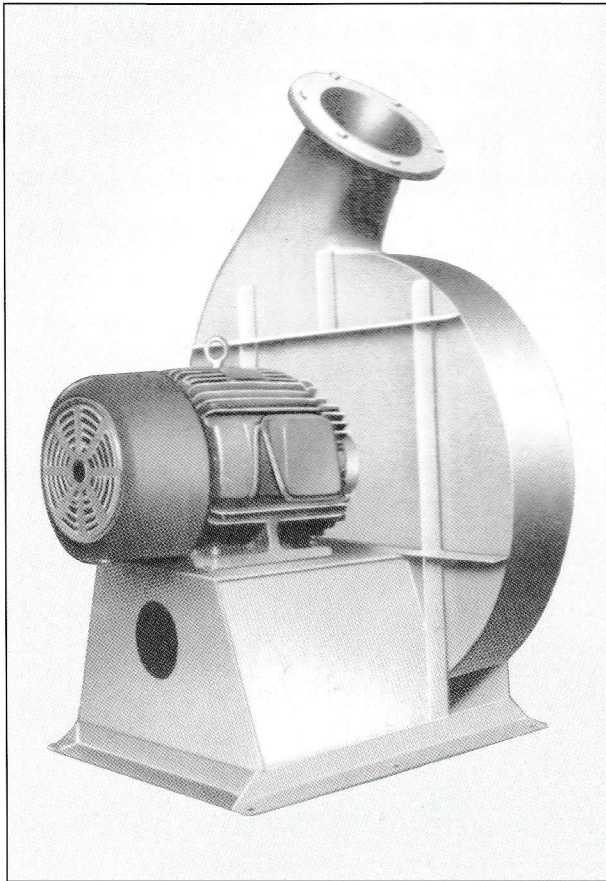
型 式 TYPE	3500 RPM			2900 RPM		
	風 量	靜 壓	馬 力	風 量	靜 壓	馬 力
	m ³ /min	mmAq	HP	m ³ /min	mmAq	HP
TFDB-6A	18	150	1	14	115	1/2
TFDB-6B	23	220	2	18	150	1
TFDB-7A	21	250	2	17	165	1
TFDB-7B	28	285	3	23	220	2
TFDB-8A	35	350	5	28	260	3
TFDB-8B	42	460	7 1/2	34	340	5
TFDB-8C	47	550	10	39	430	7 1/2
TFDB-10A	57	640	15	45	490	10
TFDB-10B	65	780	20	55	580	15
TFDB-10C	73	870	25	62	670	20
TFDB-12A	80	890	30	68	685	25
TFDB-12B	87	920	30	75	710	25
TFDB-12C	96	990	40	81	750	30
TFDB-14A	110	1060	50	90	810	40
TFDB-14B	125	1150	60	105	870	50
TFDB-14C	148	1180	75	126	900	60



尺寸表 Dimensions

單位UNIT:mm

記號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	O	T	φd
6A	150	100	185	150	180	230	205	260	235	295	80	80	250	150	138	153	12	10
6B	150	100	195	150	230	260	225	300	265	335	80	80	300	160	148	178	12	10
7A	180	120	220	180	270	270	240	310	280	355	100	100	320	190	174	194	16	12
7B	180	120	260	180	290	310	280	350	315	395	100	100	350	190	174	209	16	12
8A	200	120	290	200	320	350	315	390	355	455	110	100	350	240	224	209	16	12
8B	200	120	320	200	330	385	355	425	395	465	110	100	380	270	254	224	16	12
8C	200	120	335	200	330	400	370	450	420	490	120	110	390	280	258	228	22	15
10A	250	150	375	250	400	460	425	510	475	560	135	125	525	300	278	303	22	15
10B	250	150	395	250	430	480	445	530	495	580	135	125	525	300	278	303	22	15
10C	250	200	430	250	440	515	465	565	515	615	160	150	550	330	308	328	22	15
12A	300	200	430	300	440	515	465	565	515	615	160	150	630	330	308	368	22	15
12B	300	200	445	300	460	550	510	600	560	655	160	150	630	330	308	368	22	15
12C	300	200	445	300	495	550	510	600	560	655	160	150	630	330	308	368	22	15
14A	350	220	450	350	500	580	525	645	590	700	175	175	675	365	335	395	30	19
14B	350	220	485	350	520	615	565	675	630	735	175	175	805	415	385	460	30	19
14C	350	220	485	350	520	615	565	675	630	735	175	175	805	415	385	460	30	19



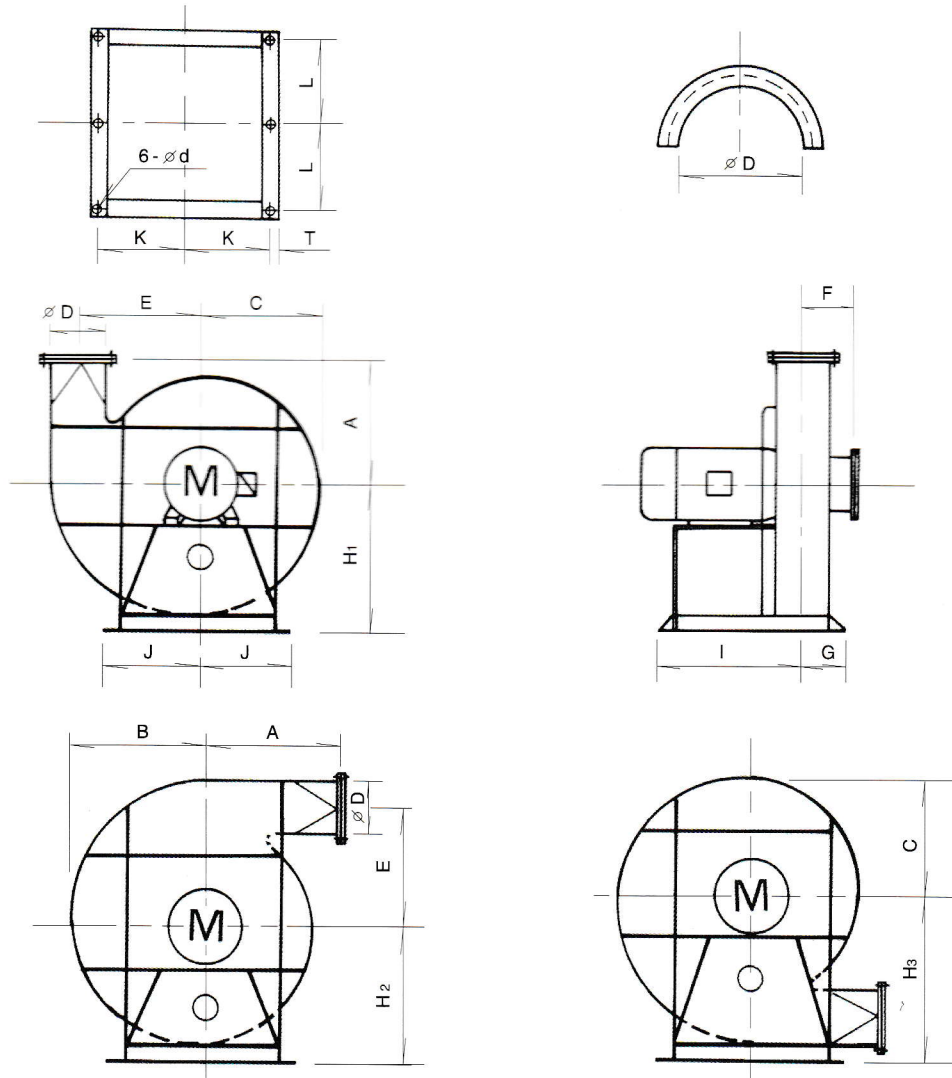
本機專用於高風壓，低風量之場所，外殼為一般鋼板或不銹鋼製造，結構堅實效率高，適用於燃燒裝置，工業用爐，粉末分離及強制送風。

The fan housings are made of steel or stainless steel. The fans are robustly constructed for high air pressure and low volume operations. It is highly efficient and reliable.

Suitable for forced air supplies to burning devices or furnaces, industrial boilers, separation of powder and solid particles in plastic industries, etc.

選擇及能量 Selections & Ratings

型式 TYPE	口徑 mm ϕ	3500 RPM			2900 RPM		
		風量	靜壓	馬力	風量	靜壓	馬力
		m ³ /min	mmAq	HP	m ³ /min	mmAq	HP
TFDC-3A	76	8	550	2	6	360	1
TFDC-3B	76	8	680	3	7	500	2
TFDC-4A	100	13	500	3	11	390	3
TFDC-4B	100	14	780	5	11	550	3
TFDC-4C	100	16	800	7½	12	580	5
TFDC-5A	127	21	500	5	16	380	3
TFDC-5B	127	21	800	7½	17	540	5
TFDC-5C	127	22	900	10	17	650	7½
TFDC-6A	152	27	600	7½	21	450	5
TFDC-6B	152	27	800	10	22	555	7½
TFDC-6C	152	27	1050	15	22	760	10
TFDC-8A	203	38	750	15	30	530	10
TFDC-8B	203	38	1100	20	32	780	15
TFDC-8C	203	38	1260	25	33	820	20
TFDC-8D	203	40	1380	30	35	900	25
TFDC-10A	250	55	800	20	43	550	15
TFDC-10B	250	57	950	25	45	680	20
TFDC-10C	250	61	1100	30	49	800	25
TFDC-10D	250	63	1370	40	52	980	30



尺寸表 Dimensions

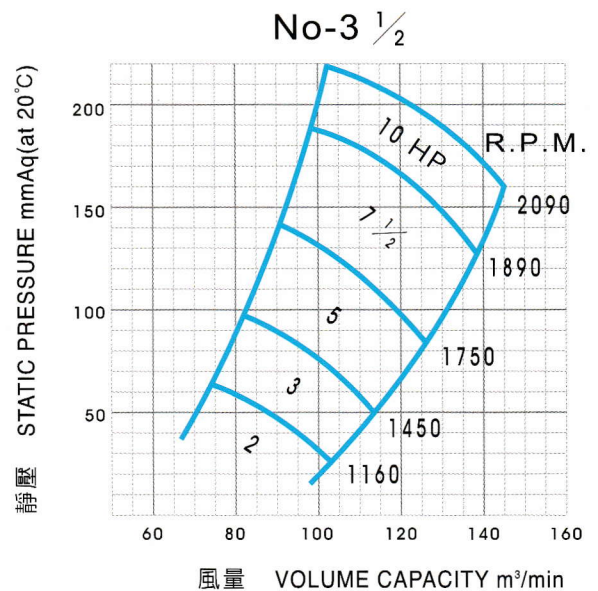
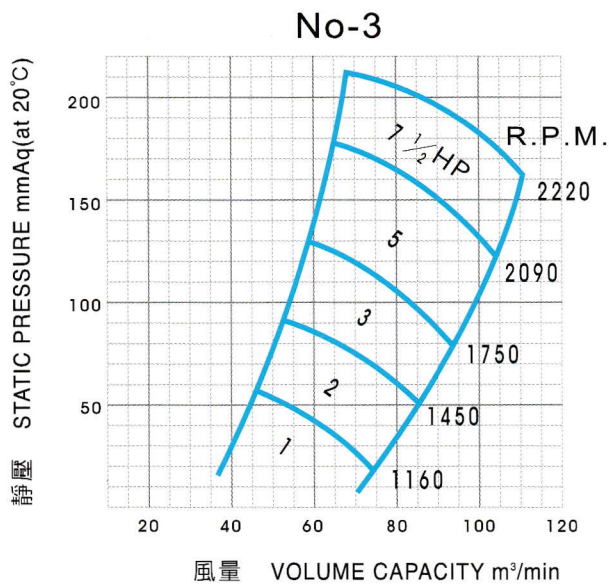
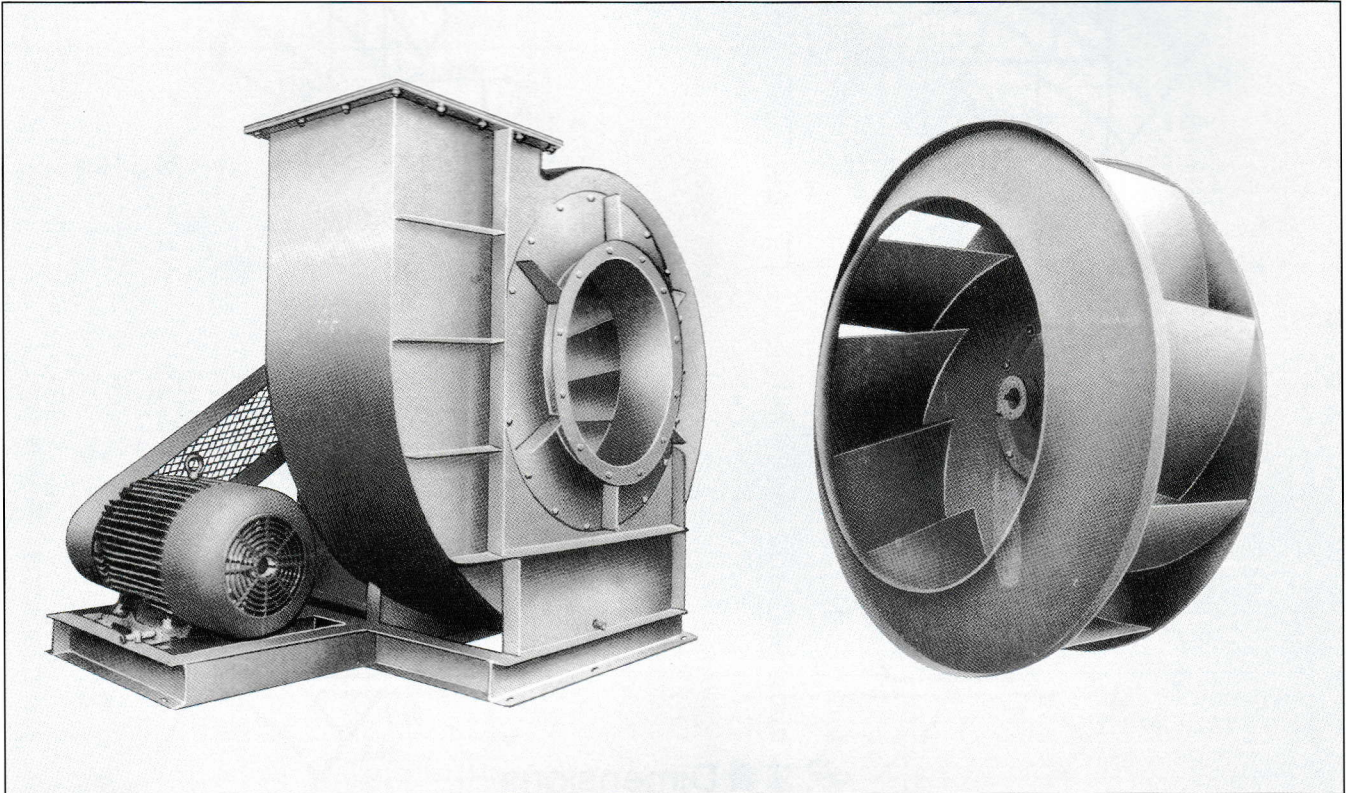
單位UNIT:mm

編號	記號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	T	φd
3-A		350	290	280	76	262	78	78	330	320	345	305	220	204	175	16	12
3-B		350	290	280	76	262	78	78	330	320	345	305	220	204	175	16	12
4-A		360	290	280	100	250	78	78	330	320	345	305	220	204	175	16	12
4-B		425	360	345	100	317	100	90	400	385	430	340	260	244	199	16	12
4-C		425	360	345	100	317	100	100	400	385	430	380	270	248	218	22	15
5-A		425	370	345	127	325	120	110	420	395	460	360	270	248	213	22	15
5-B		465	410	390	127	345	120	110	460	440	490	390	300	278	228	22	15
5-C		465	410	390	127	345	125	115	460	440	490	390	300	278	228	22	15
6-A		465	410	390	152	355	135	125	460	440	500	405	300	278	243	22	15
6-B		465	410	390	152	355	135	125	460	440	500	405	300	278	243	22	15
6-C		500	450	420	152	395	145	125	500	470	540	525	330	308	303	22	15
8-A		510	460	425	203	375	160	140	510	470	560	540	300	278	318	22	15
8-B		510	460	425	203	375	160	140	510	470	560	540	300	278	318	22	15
8-C		550	480	445	203	395	170	140	530	495	580	610	330	308	353	22	15
8-D		550	480	445	203	395	170	140	530	495	580	610	330	308	353	22	15
10-A		560	480	445	250	395	170	140	530	495	580	540	330	308	318	22	15
10-B		560	500	475	250	415	180	150	550	525	610	620	330	308	363	22	15

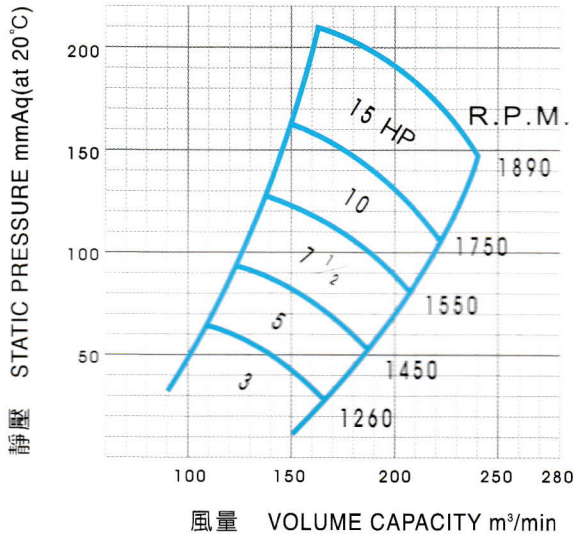
本機葉輪之葉片順氣流做合理的後向彎曲，轉動時能保持低噪音和高效率，結構堅實壽命長，適用於一般排換氣，熱風循環，焚化爐、集塵設備等用途最為廣泛。

The fan blades are curved vane(turbine) shape and dynamic balanced for vibration free operation. It is highly efficient, low noise and reliable.

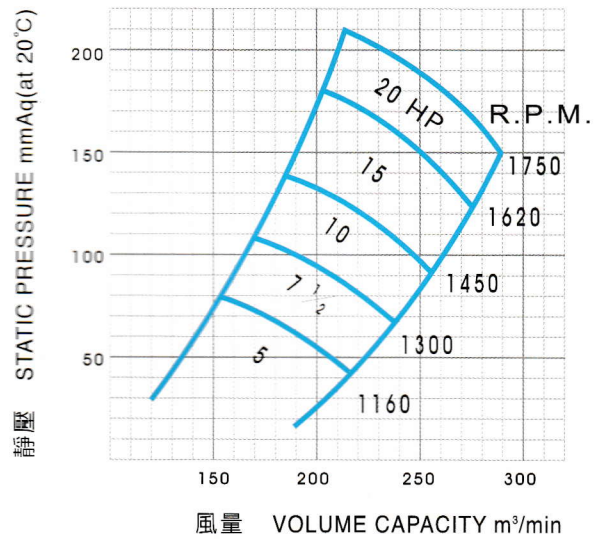
It has been widely used for general ventilations, hot air circulation, incinators, dust collecting equipment, etc.



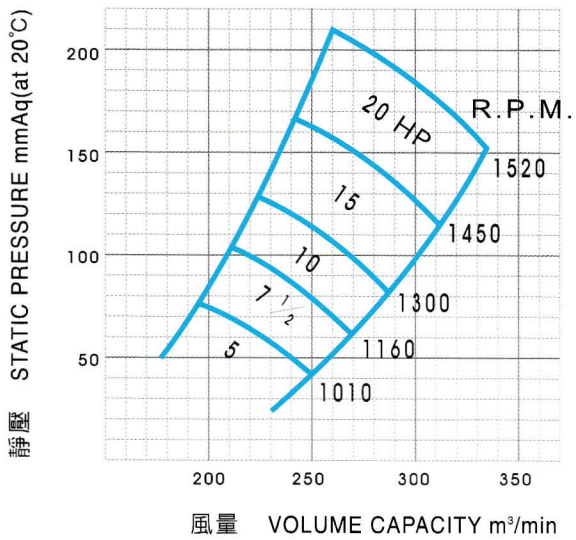
No-4



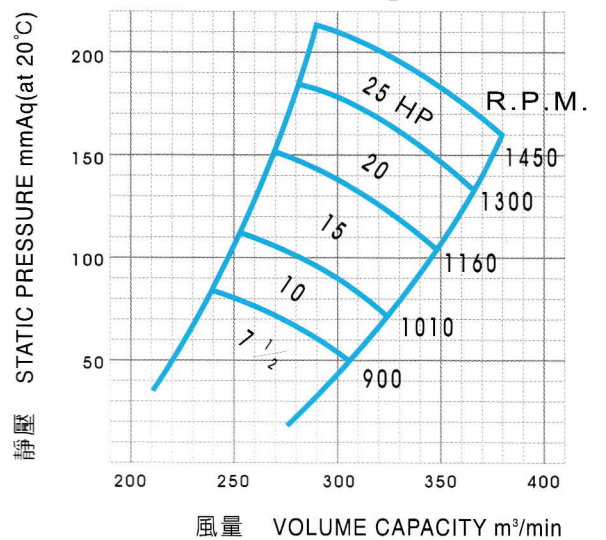
No-4 1/2



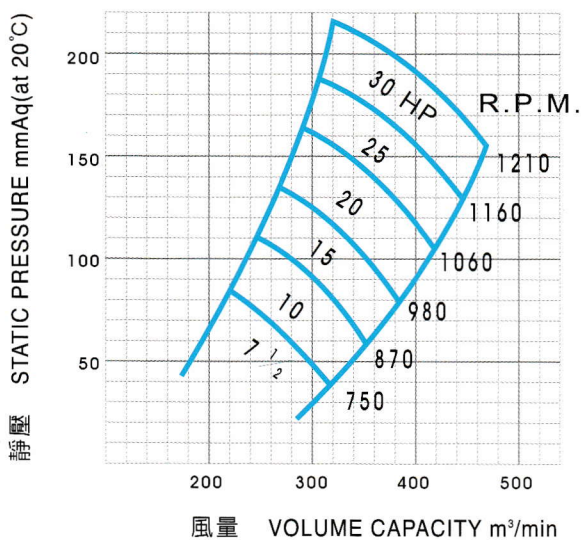
No-5



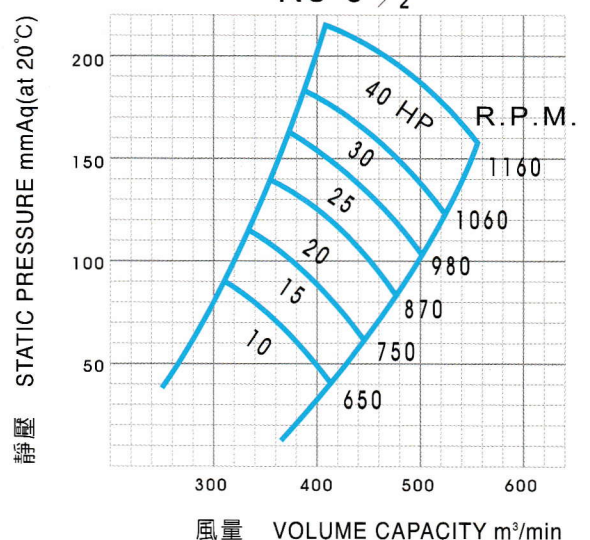
No-5 1/2



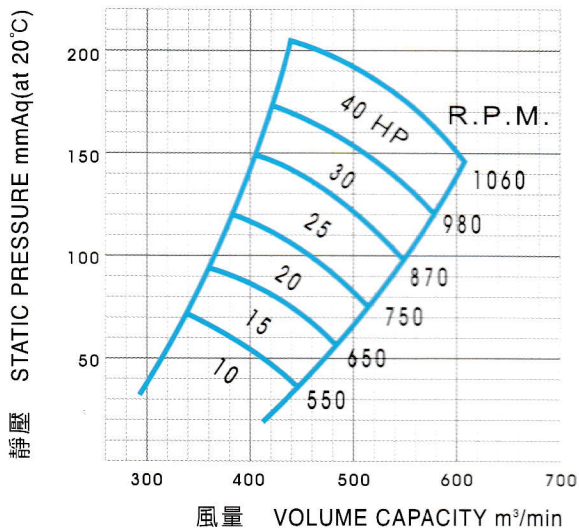
No-6



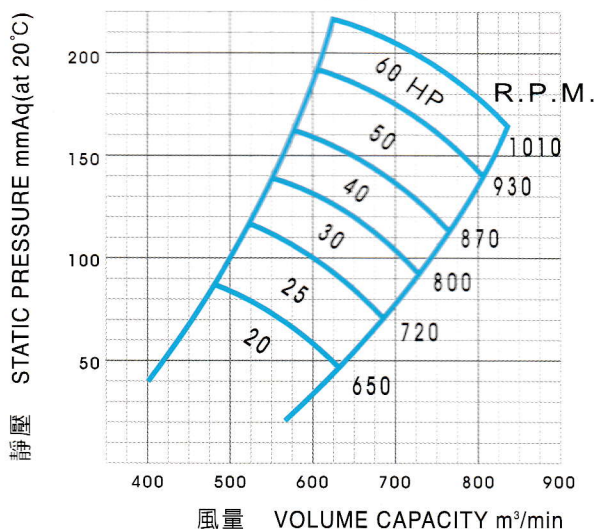
No-6 1/2



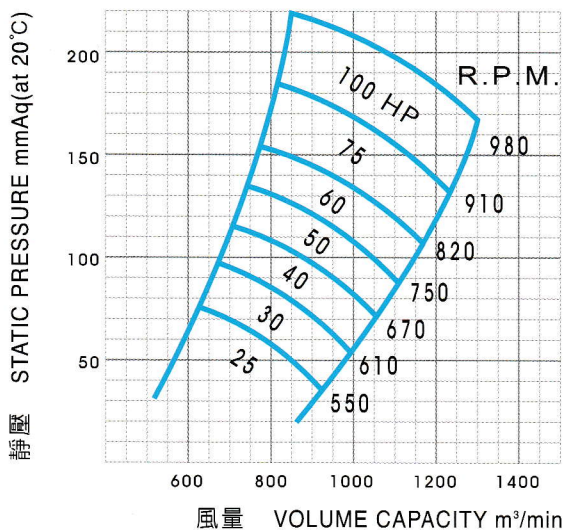
No-7



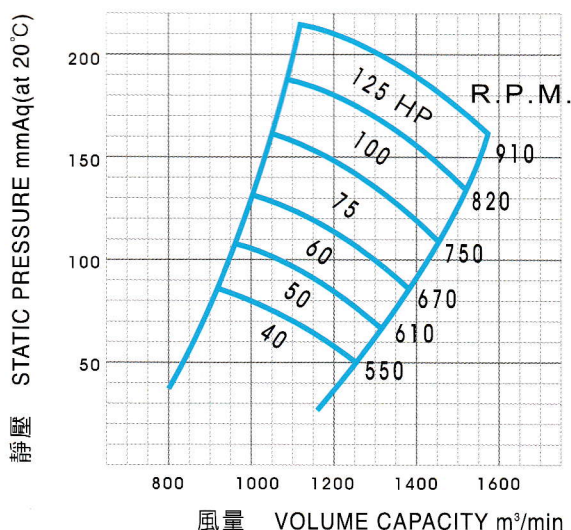
No-8



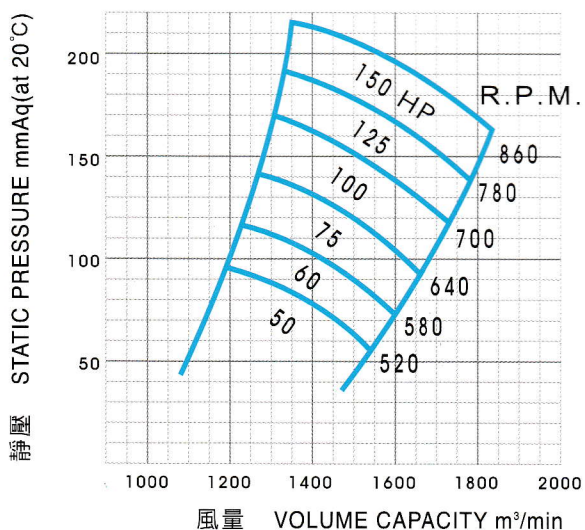
No-9



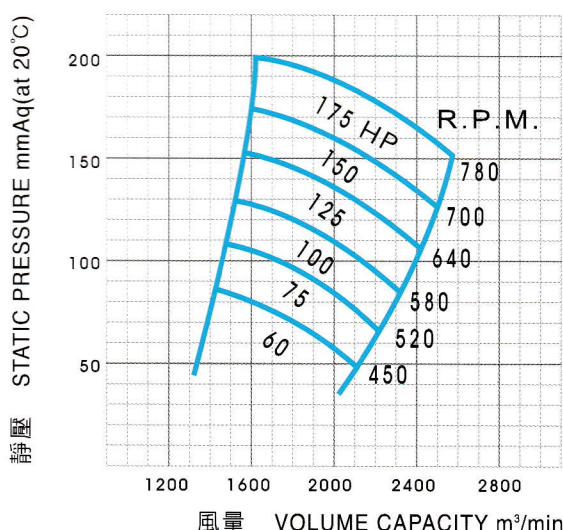
No-10

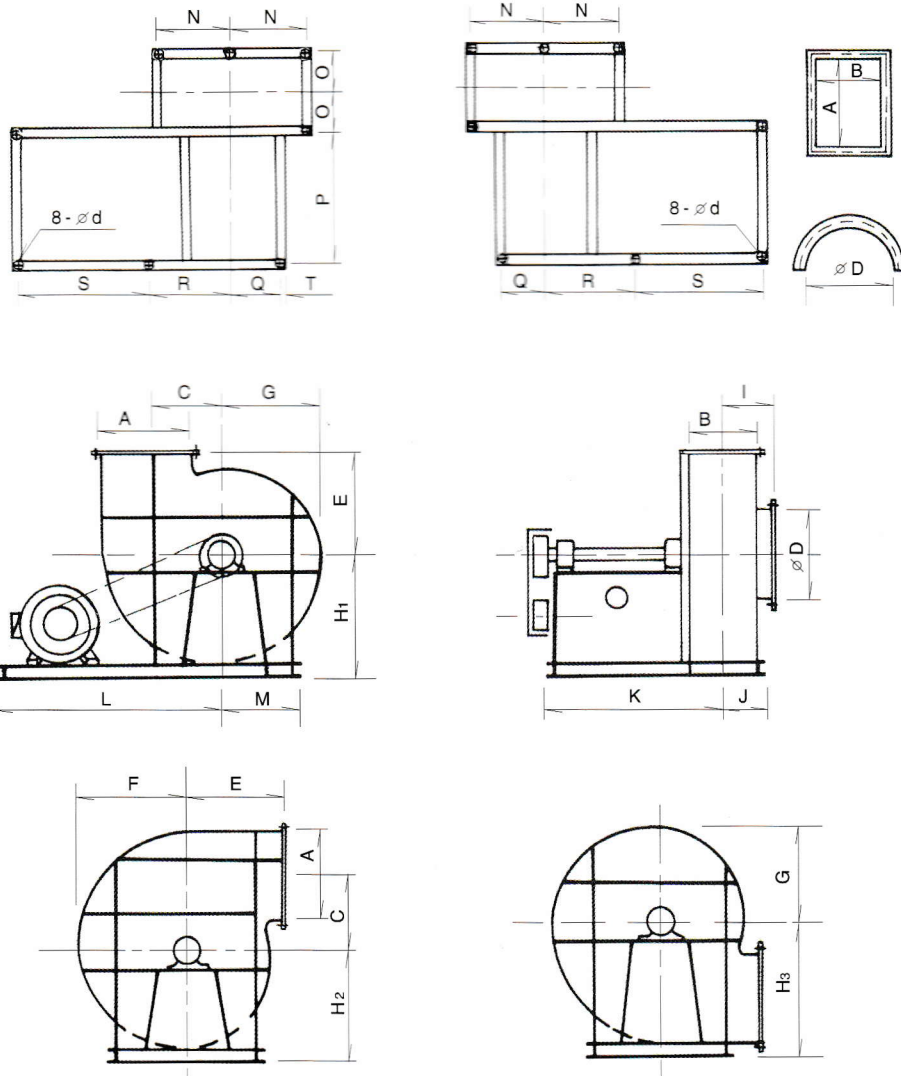


No-11



No-12





尺寸表 Dimensions

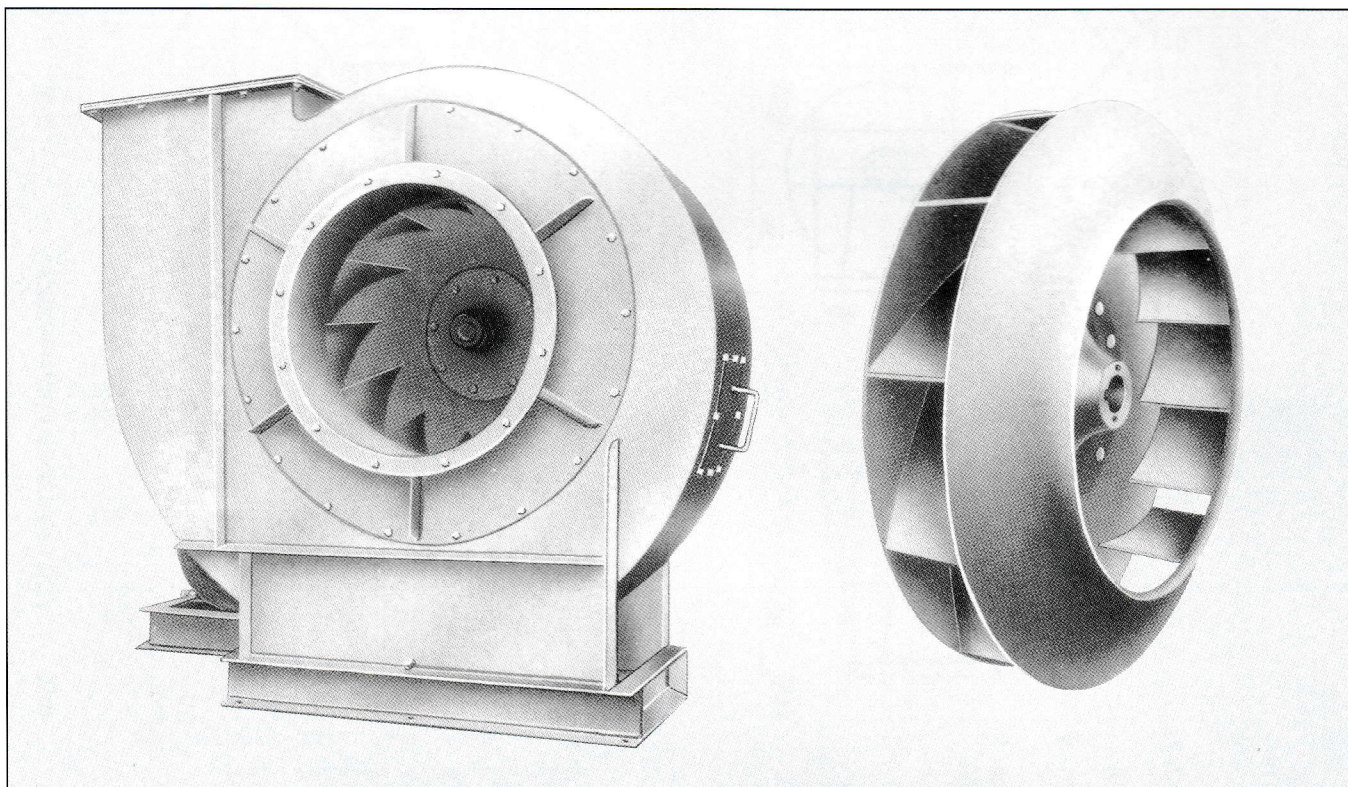
單位UNIT:mm

記號 編號	A	B	C	∅D	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	P	Q	R	S	T	∅d
3	400	250	280	400	380	425	360	475	410	535	175	175	575	670	270	248	153	400	153	248	400	16	12
3½	450	300	335	450	400	485	405	535	455	610	200	200	650	700	300	278	178	450	178	250	428	22	15
4	550	400	365	550	450	550	460	600	510	695	260	265	765	815	365	335	235	500	225	280	505	22	15
4½	600	450	415	600	500	615	515	685	580	785	290	290	840	895	395	365	260	550	245	310	555	30	19
5	650	450	475	650	530	685	575	750	640	870	290	290	890	965	445	415	260	600	245	345	590	30	19
5½	700	500	540	700	610	760	640	825	705	960	315	315	915	1035	485	455	285	600	260	373	632	35	19
6	750	500	600	750	660	835	705	935	805	1085	315	300	1000	1100	500	478	278	700	288	395	683	22	19
6½	850	550	625	850	700	910	755	1035	880	1220	355	338	1088	1193	543	516	311	750	336	415	751	28	22
7	950	600	665	950	760	960	800	1090	925	1275	380	363	1163	1243	593	566	336	800	336	440	776	28	22
8	1100	700	740	1100	830	1085	885	1210	1010	1425	440	415	1365	1465	665	638	388	950	388	525	913	35	22
9	1200	800	760	1200	920	1160	960	1360	1160	1590	500	475	1575	1605	755	725	445	1100	445	565	1010	35	24
10	1400	950	970	1400	1020	1350	1120	1560	1320	1820	585	565	1815	1700	850	810	525	1250	525	568	1092	40	24
11	1600	1150	1000	1600	1130	1500	1250	1720	1470	2020	700	665	2165	1830	930	890	625	1500	550	620	1170	40	24
12	1800	1350	1100	1800	1250	1685	1340	1900	1560	2280	800	765	2415	2205	1005	965	725	1650	600	783	1382	40	24

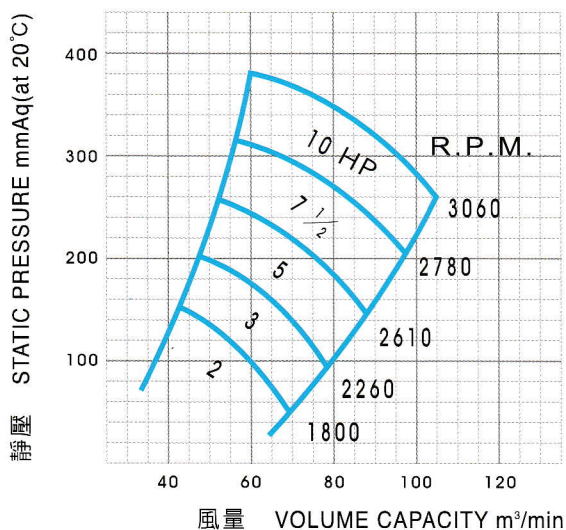
本機為中高壓透浦式風機，葉輪之葉片呈後向彎曲，且經本公司高感度動平衡機，校正後，能做高速之回轉，無慮震動，噪音低，效率高、壽命長，使用於強制送風，環保裝置熱風循環，鍋爐之送風，均能發揮優良之性能。

The fan blades are curved vane (turbine) shaped and belt driven for medium pressure operations. It is accurately calibrated and dynamic balanced for vibration free operation. It is highly efficient, very low noise level and reliable.

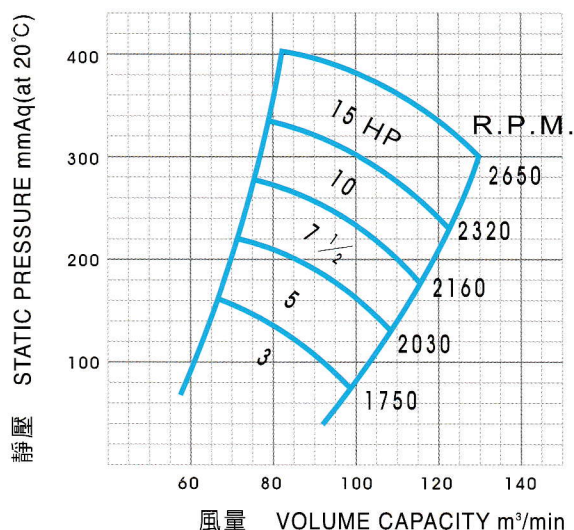
It has been proven in many applications, such as, forced air supplies, hot air circulations or air supplies for environmental pollution control equipment and boilers, etc.



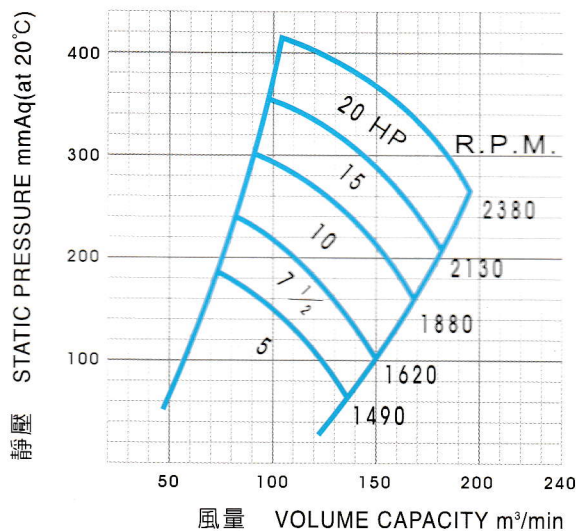
No-3



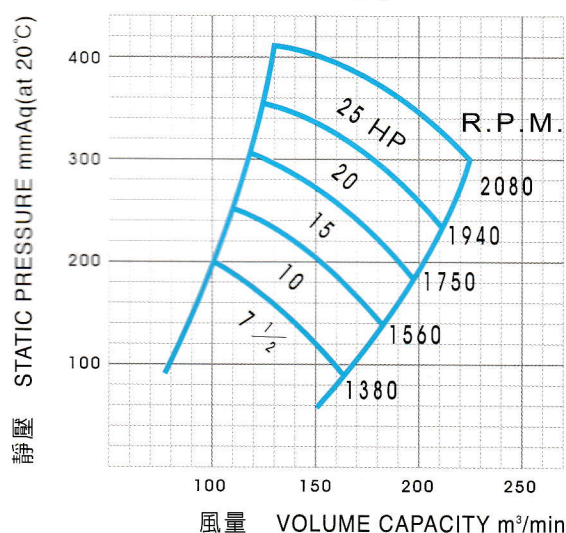
No-3 1/2



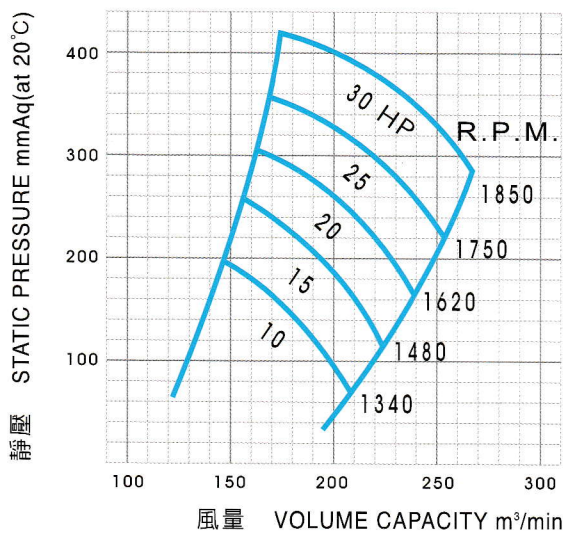
No-4



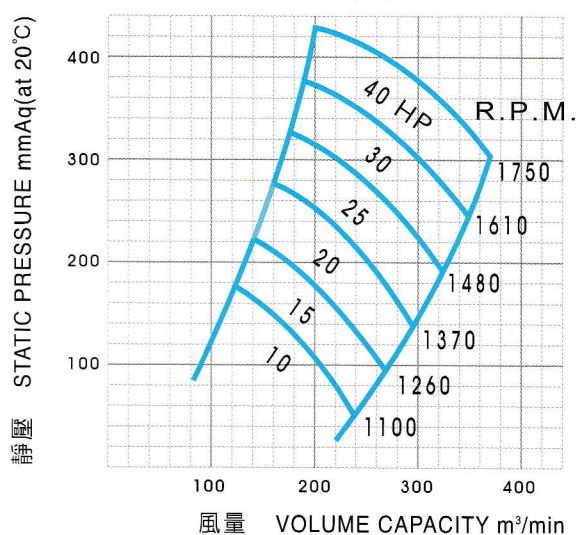
No-4 1/2



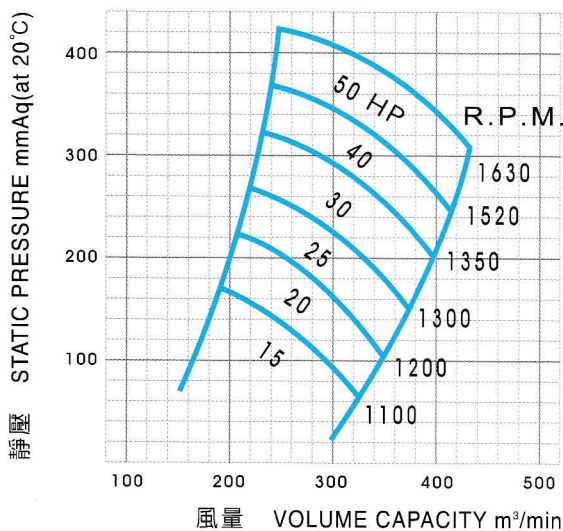
No-5



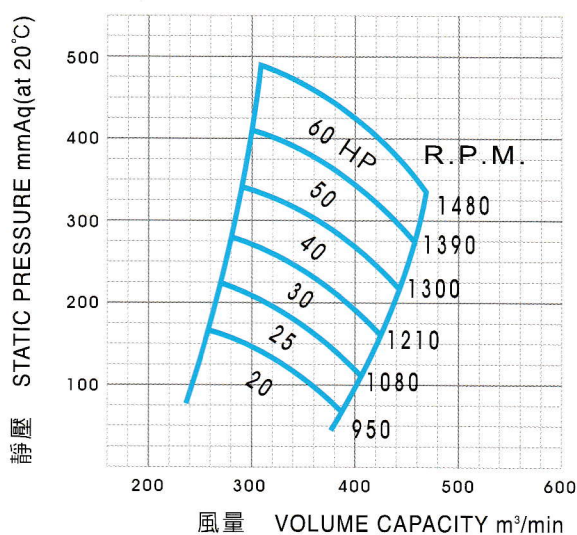
No-5 1/2



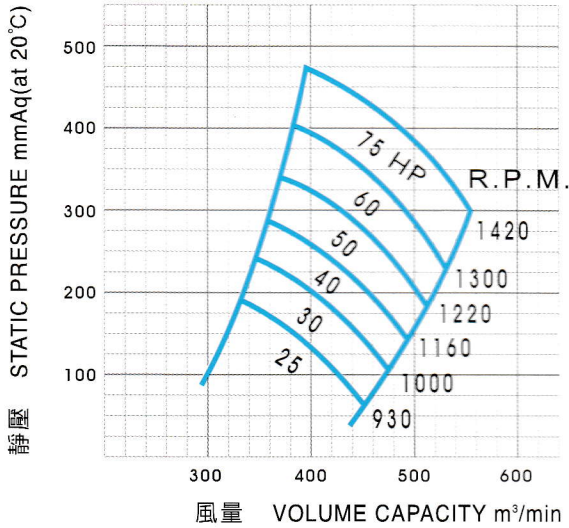
No-6



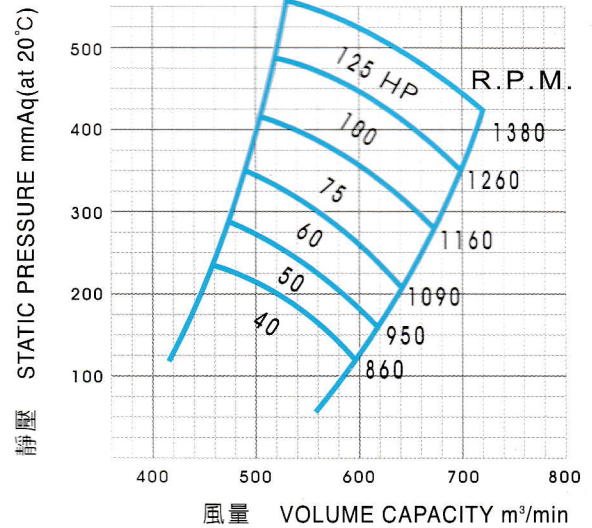
No-6 1/2



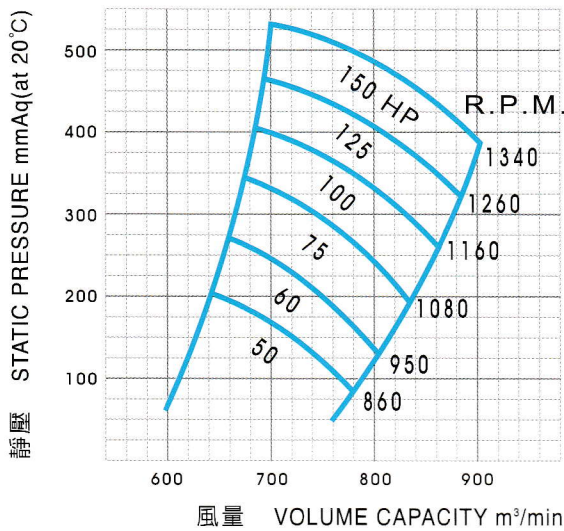
No-7



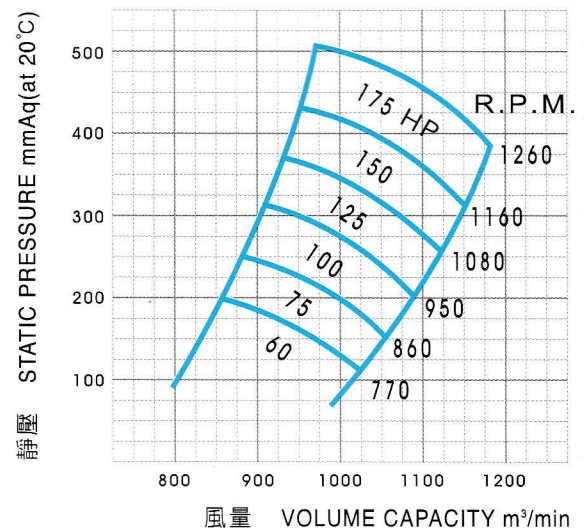
No-8



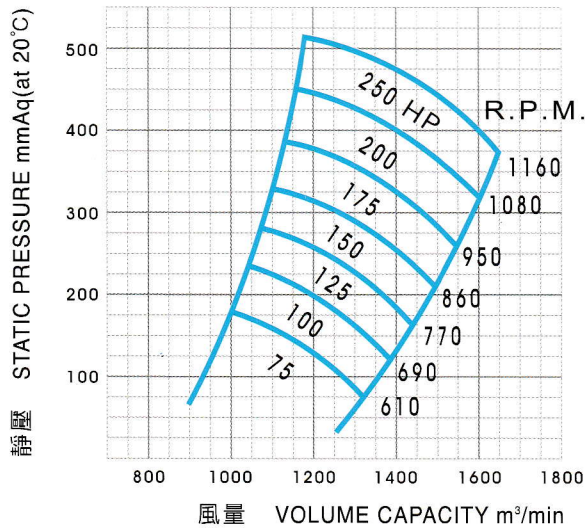
No-9



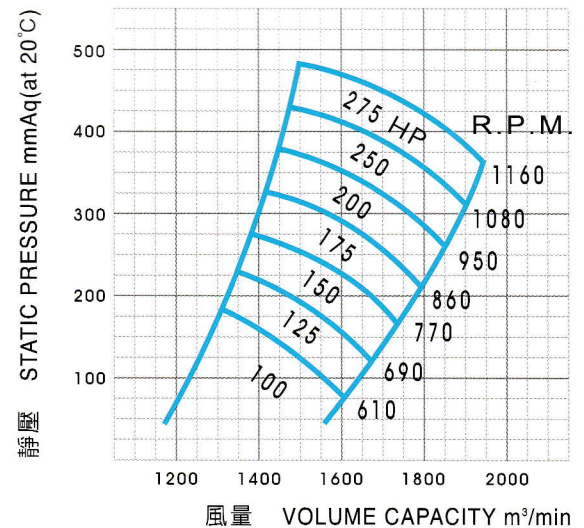
No-10

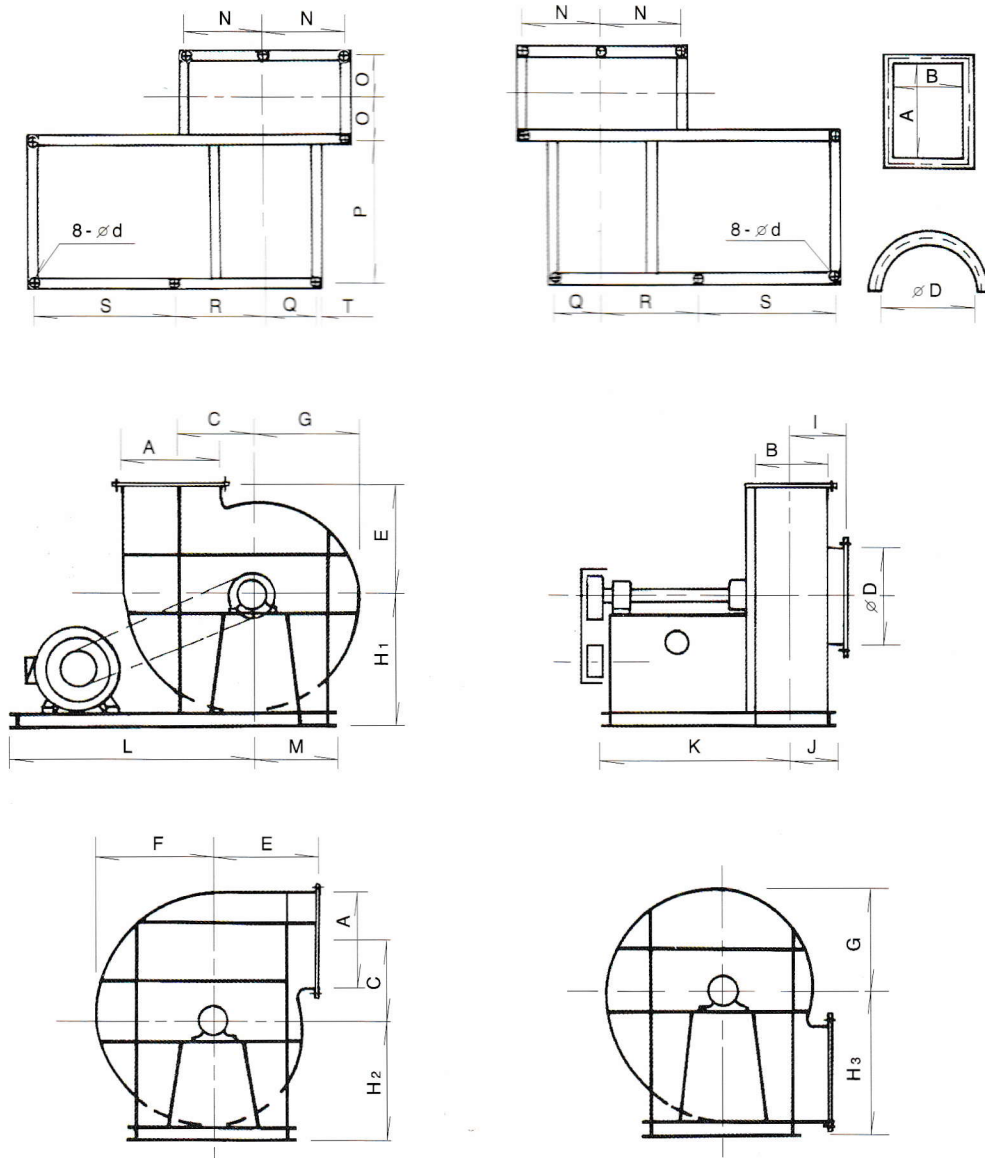


No-11



No-12





尺寸表 Dimensions

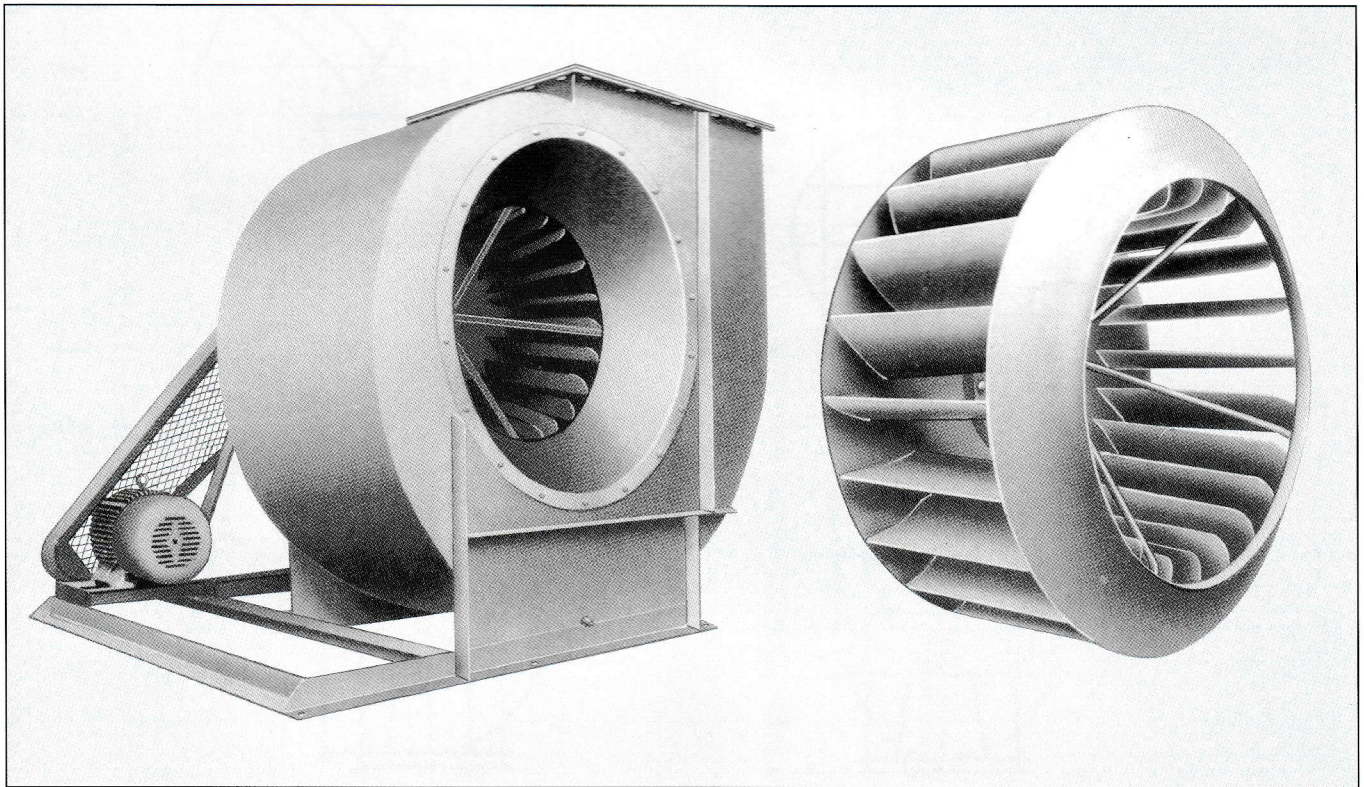
單位UNIT:mm

記號 編號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	P	Q	R	S	T	φd
3	300	250	280	300	330	360	310	400	350	475	175	165	565	660	260	244	149	400	149	248	396	16	12
3½	350	250	320	350	370	435	375	485	425	550	175	175	575	710	310	288	153	400	178	255	433	22	15
4	400	300	400	400	400	505	440	555	490	660	200	200	670	800	350	328	178	470	218	280	489	22	15
4½	450	350	425	450	460	570	495	635	560	725	235	240	760	895	395	365	210	520	245	310	555	30	19
5	500	400	480	500	520	620	530	685	595	805	260	265	865	975	445	415	235	600	260	343	602	30	19
5½	550	450	555	550	550	700	610	775	685	915	290	300	930	1945	495	460	265	630	300	355	655	35	19
6	600	500	575	600	630	760	660	865	760	980	320	300	1000	1110	510	488	278	700	308	390	698	22	19
7	700	550	670	700	720	890	765	1015	905	1155	345	338	1138	1243	593	565	310	800	335	440	775	28	22
8	850	700	750	850	770	1005	865	1155	1015	1320	430	425	1375	1435	685	650	390	950	390	505	895	35	22
9	950	800	850	950	870	1120	960	1320	1160	1525	500	475	1575	1555	755	720	440	1100	465	528	992	35	24
10	1150	900	925	1150	1060	1270	1110	1480	1320	1720	570	540	1790	1700	850	810	500	1250	525	568	1092	40	24
11	1350	1000	1025	1350	1110	1450	1220	1670	1440	1930	620	590	2000	1830	930	890	550	1500	550	620	1170	40	24
12	1500	1100	1150	1500	1190	1600	1340	1820	1560	2130	670	640	2290	2205	1005	965	600	1650	600	783	1382	40	24

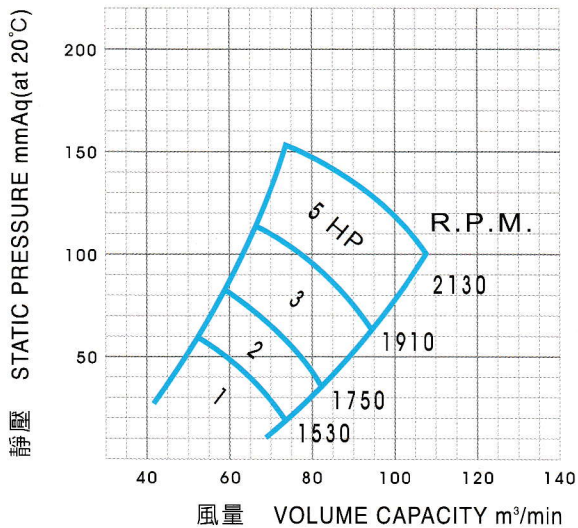
本機型葉輪之葉片呈S型，馬力輸出穩定，不受風壓和風量之變化影響，是一種限定荷重風機，高風量低噪音風機，適用於一般換氣，窯業循環風扇，墜道，排煙及對油煙之排除最為適宜。

The fan blades are "S" shaped which can achieve high volume of air flow ventilation with very low noise level. The required horsepower is virtually constant and independent of air pressure and velocity.

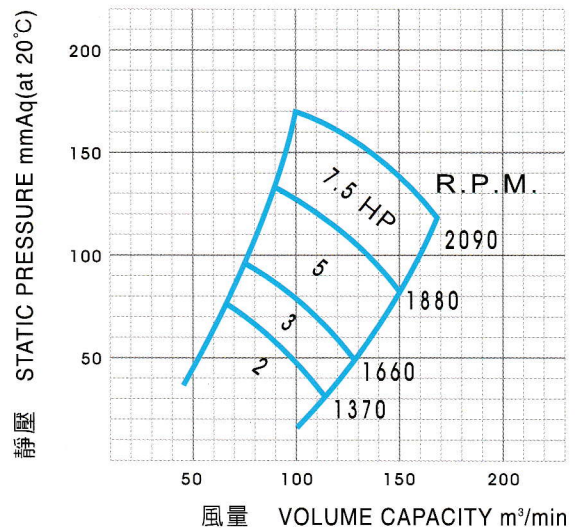
Suitable for general ventilations, air circulations, smoke and exhaust purposes and under ground tunnels. It is also suitable for oily and smoky exhaust systems.



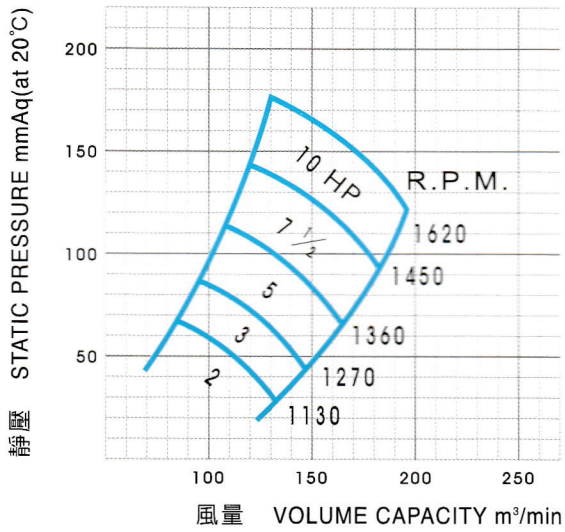
No-2 1/2



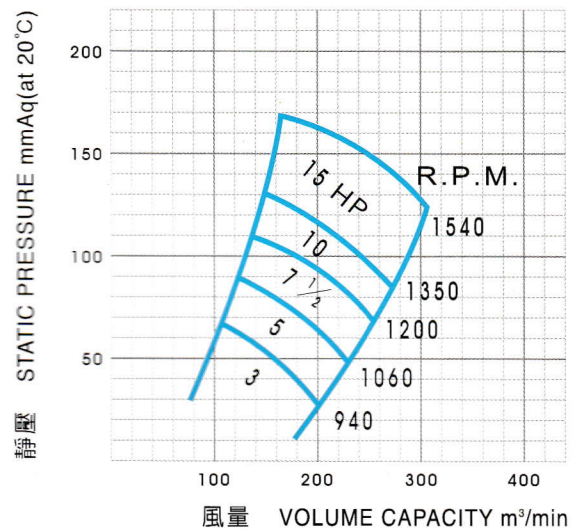
No-3



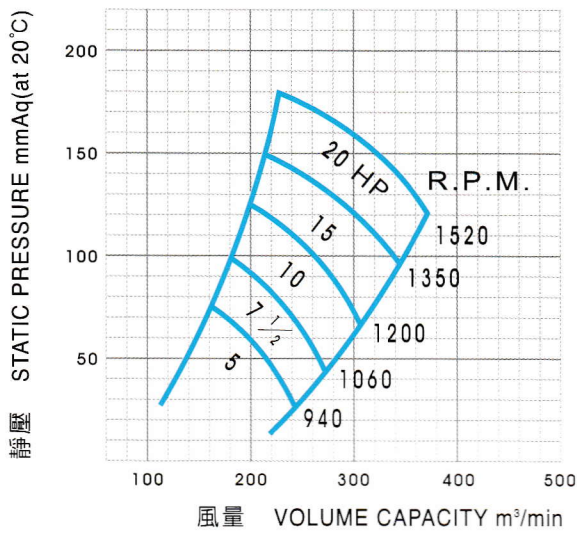
No-3 1/2



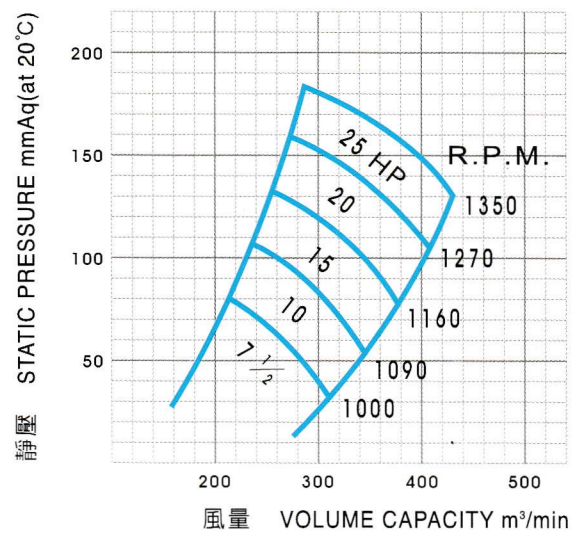
No-4



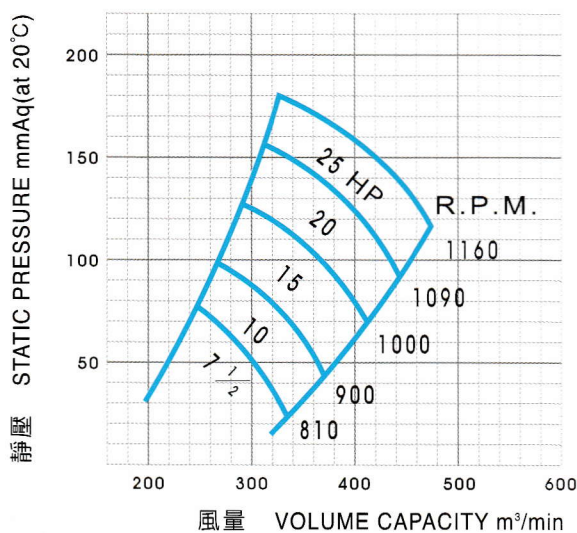
No-4 1/2



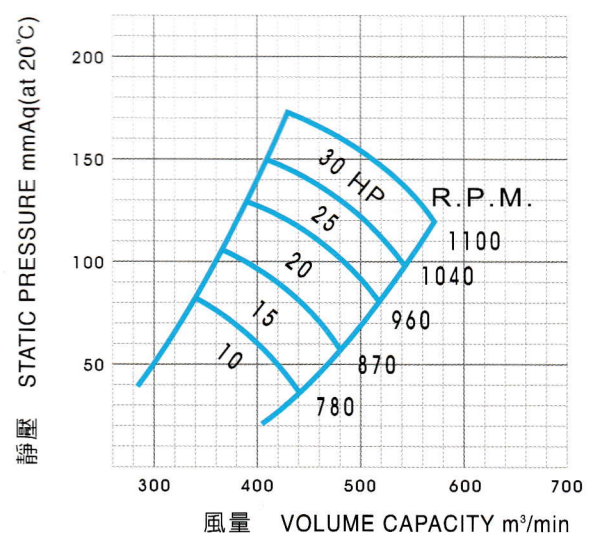
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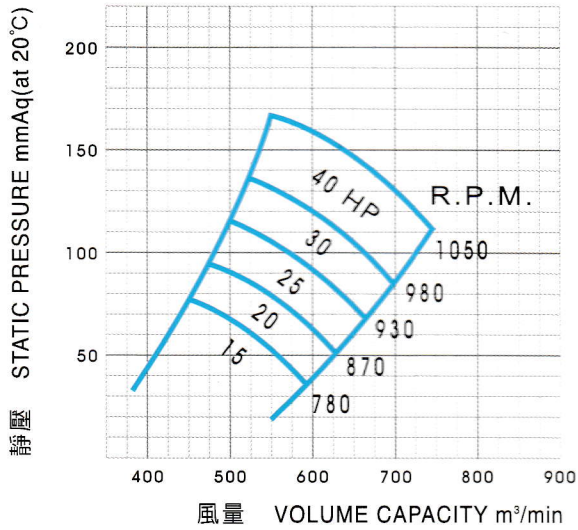
No-5 1/2



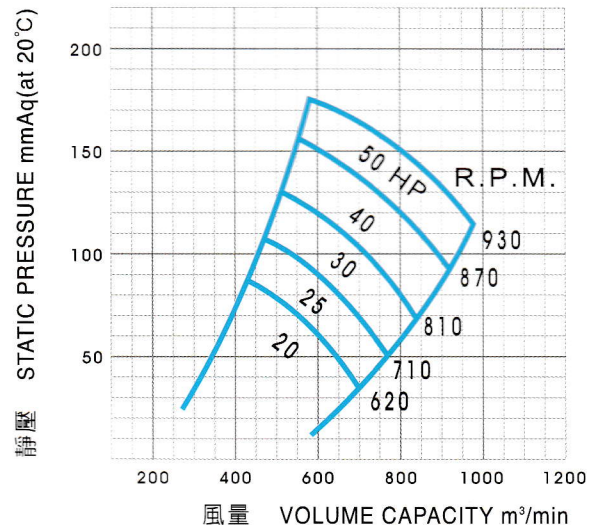
No-6



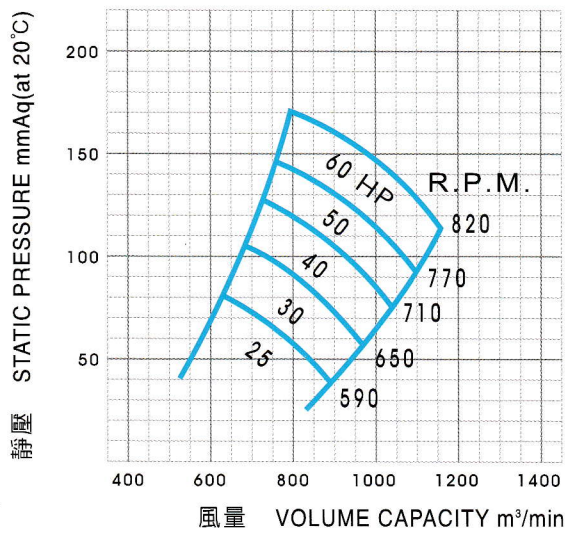
No-7



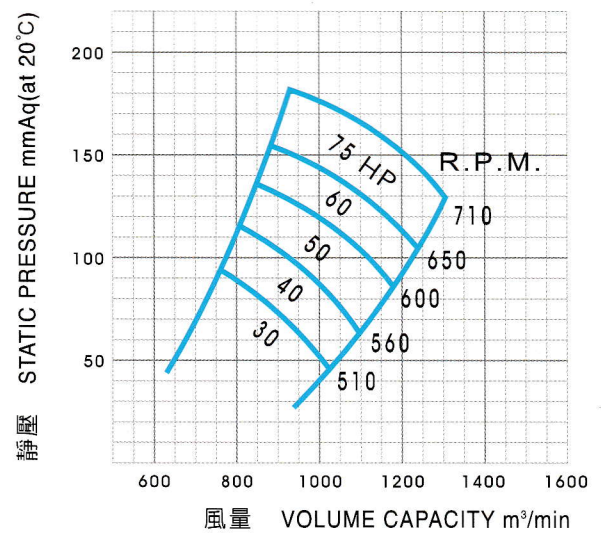
No-8



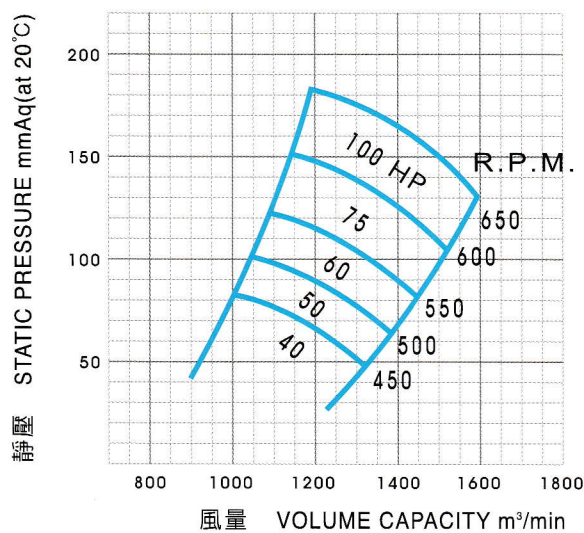
No-9



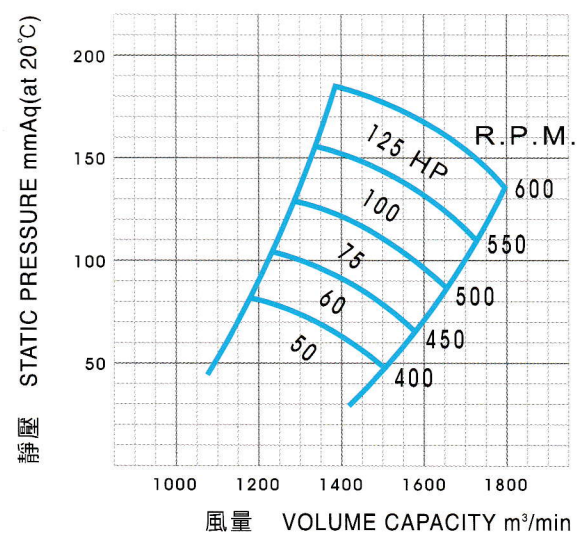
No-10

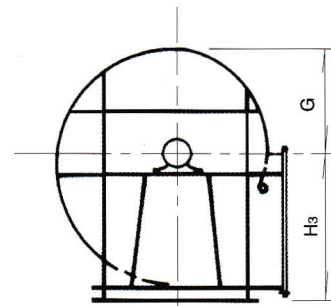
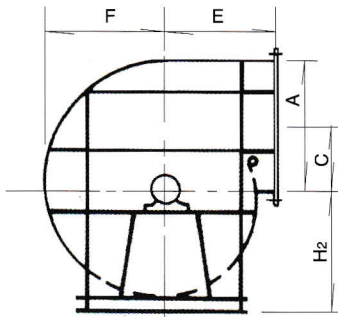
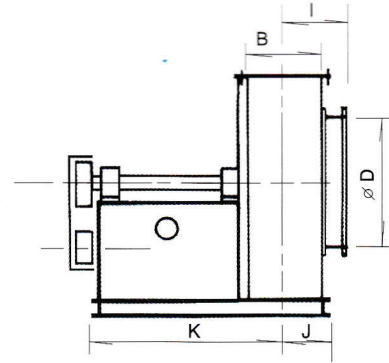
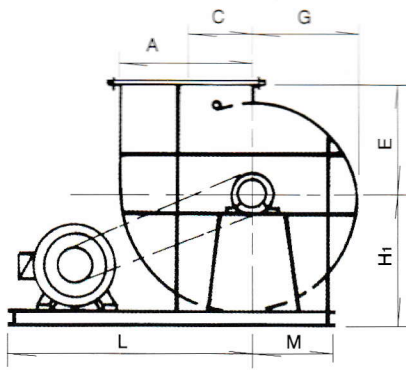
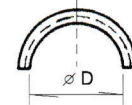
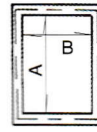
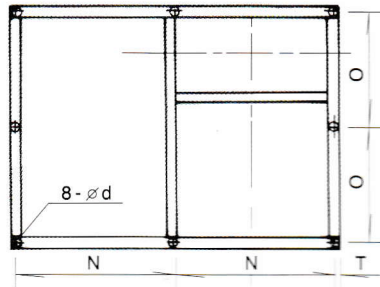


No-11



No-12





尺寸表 Dimensions

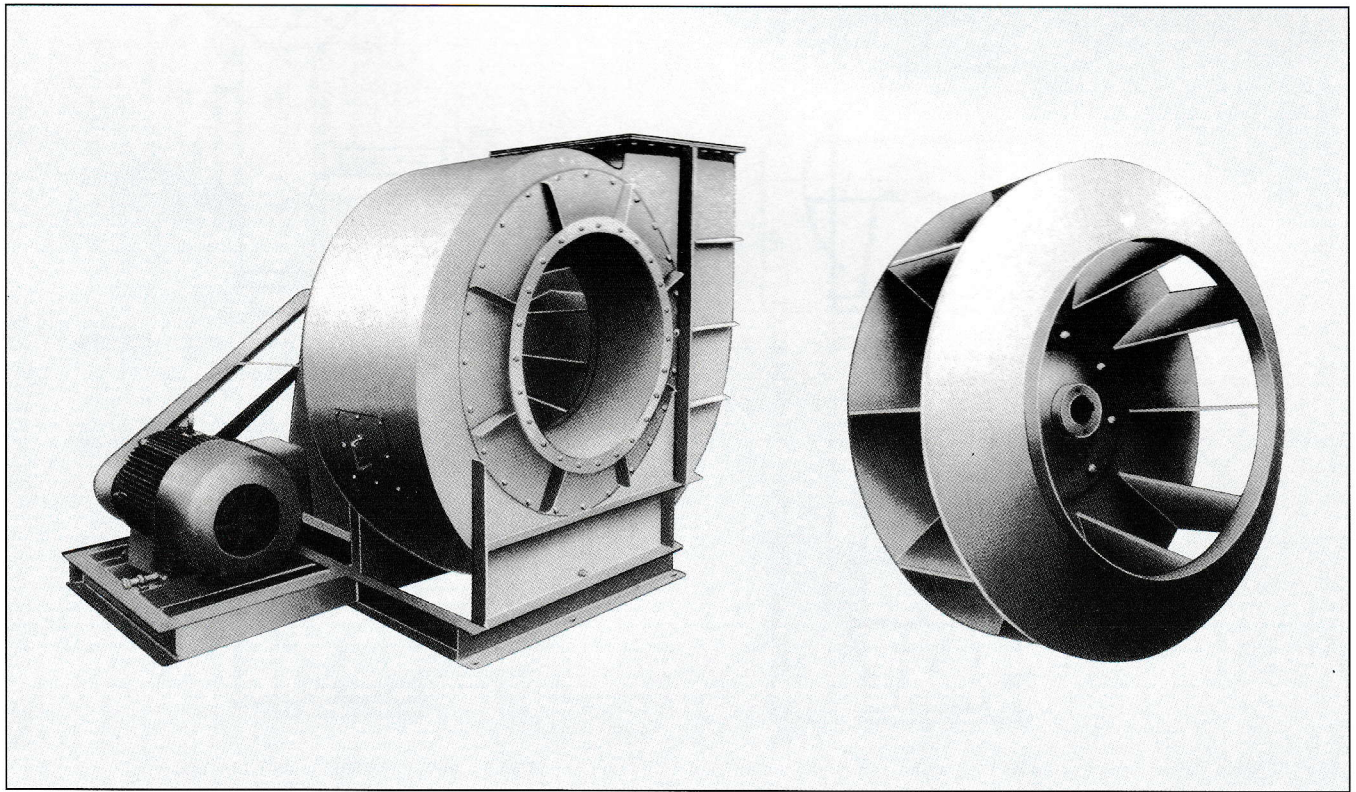
單位UNIT:mm

配號 編號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	T	φd
2½	380	300	190	380	280	330	280	370	320	430	190	190	490	530	230	364	324	16	12
3	450	350	225	460	350	410	345	450	385	500	225	215	595	620	270	429	389	16	12
3½	500	400	250	530	390	440	375	490	425	550	250	250	650	660	310	463	428	22	15
4	580	450	290	610	430	520	450	570	500	650	275	275	725	750	350	528	478	22	15
4½	660	500	330	690	470	595	495	645	545	710	310	300	800	820	390	583	528	22	15
5	740	550	370	760	540	670	570	735	635	810	340	340	940	925	445	655	610	30	19
5½	830	600	415	840	570	745	630	810	695	910	380	365	1015	965	485	695	660	30	19
6	910	650	455	920	610	810	695	875	760	990	405	390	1040	1005	525	735	685	30	19
7	1050	800	525	1070	730	950	790	1025	865	1150	500	475	1275	1105	605	820	840	35	19
8	1170	900	585	1220	790	980	830	1110	955	1320	550	513	1413	1273	673	946	936	28	22
9	1370	950	685	1370	960	1195	1030	1345	1180	1470	575	550	1650	1455	755	1070	1065	35	22
10	1500	1050	750	1500	1050	1330	1145	1530	1345	1660	645	600	1800	1635	835	1200	1165	35	24
11	1700	1150	850	1700	1150	1450	1230	1650	1430	1920	705	665	2015	1830	910	1330	1300	40	24
12	1900	1250	950	1900	1250	1600	370	1800	1570	2120	760	715	2215	1990	990	1450	1425	40	24

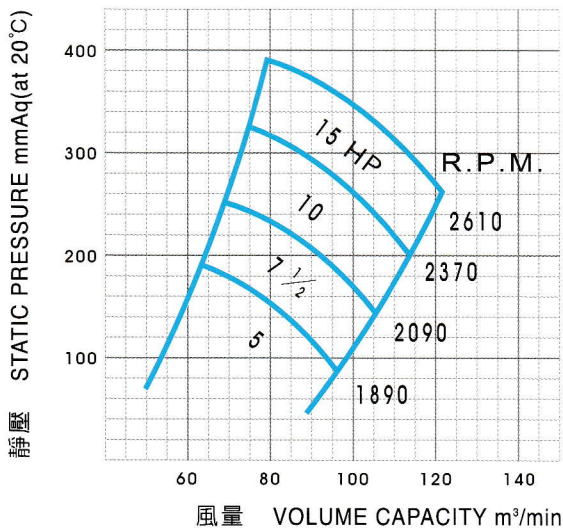
本機葉輪葉片為直翼扇形，葉輪堅固且粉塵不易附著於葉片，可耐高含塵和高腐蝕之磨損，最適合木業加工、石粉、金屬研磨、紙屑、木屑、化工原料、纖維等集塵輸送。

The fan blades are plate shaped and robustly constructed against wear from powder dust and corrosion.

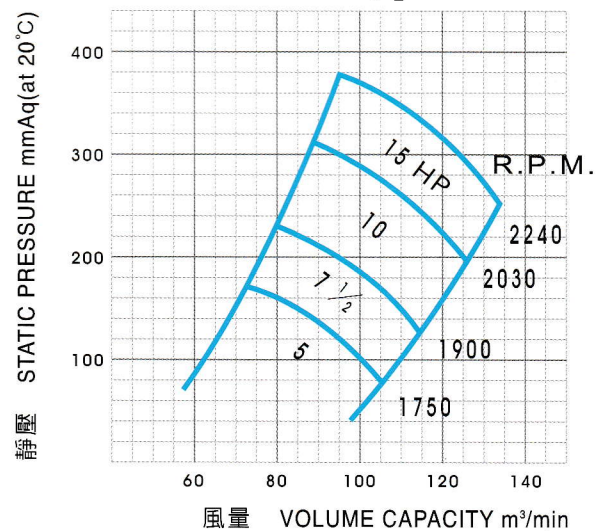
Suitable for collection and transfer of dust and powdery intensive industries, such as, processing of timber, stone, marble, granite, metal, paper, wood, chemical fibres, etc.



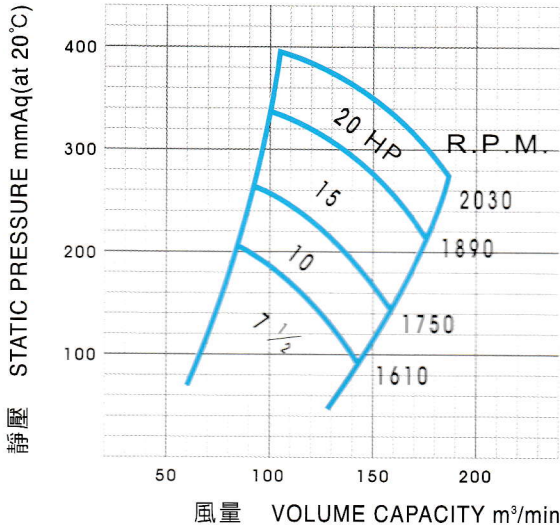
No-3



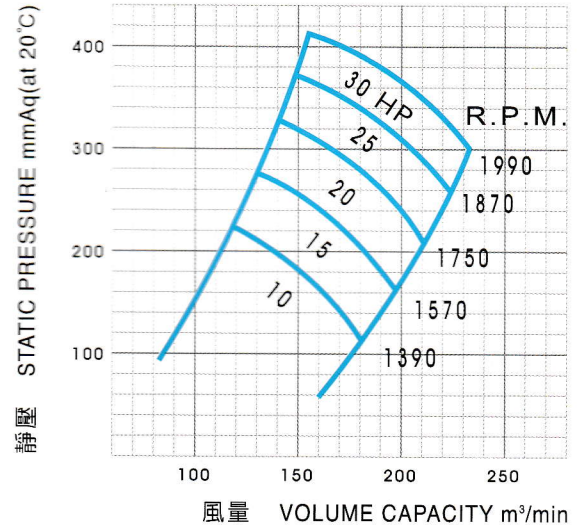
No-3 1/2



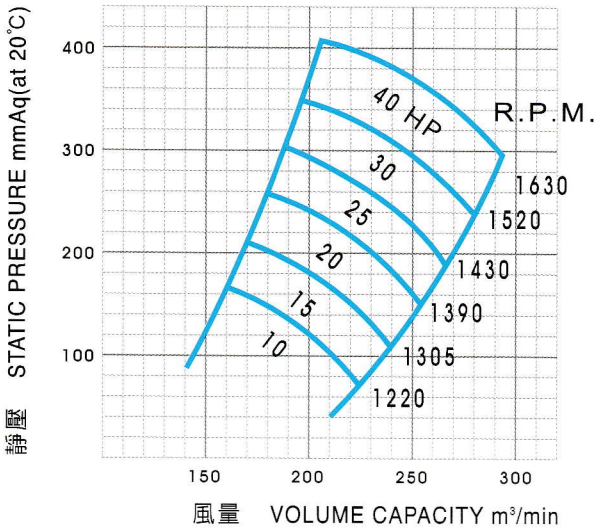
No-4



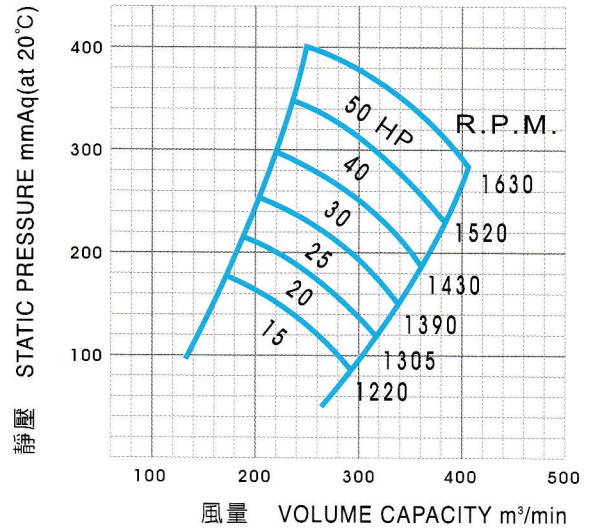
No-4 1/2



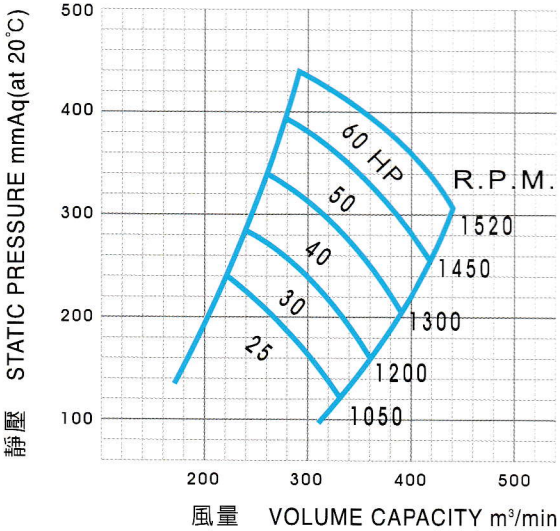
No-5



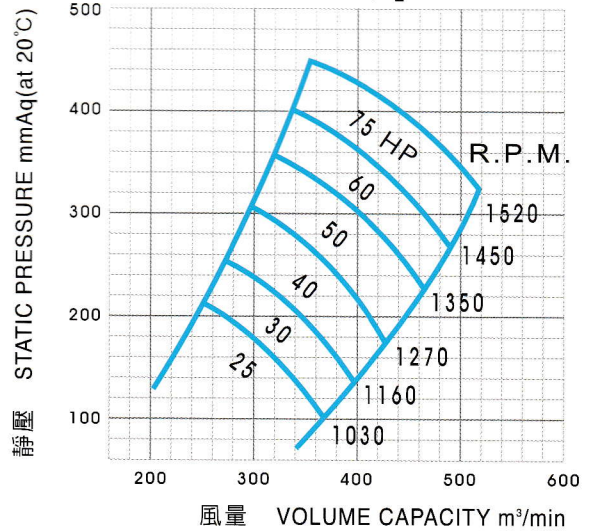
No-5 1/2



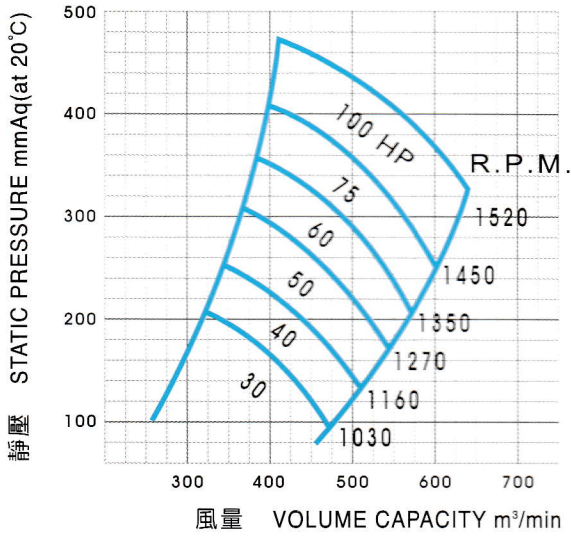
No-6



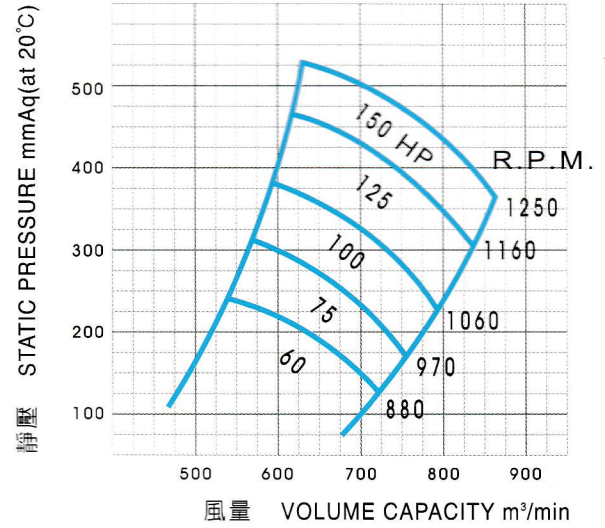
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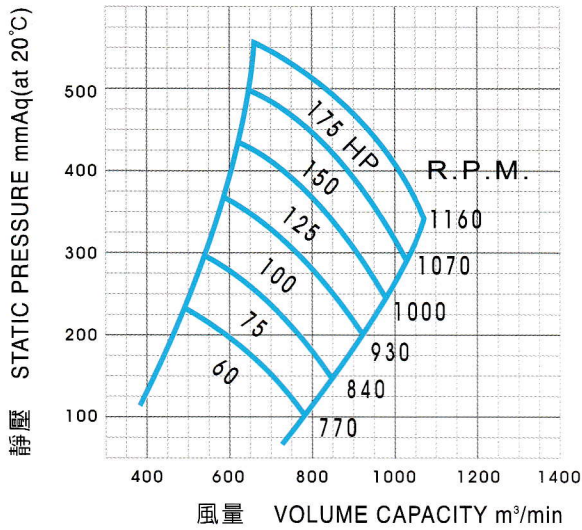
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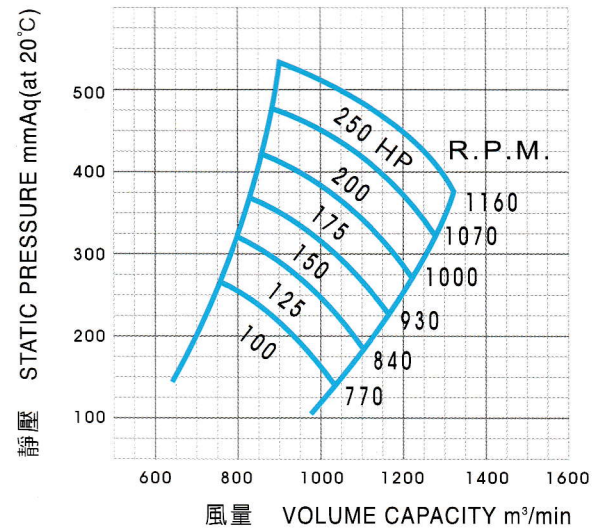
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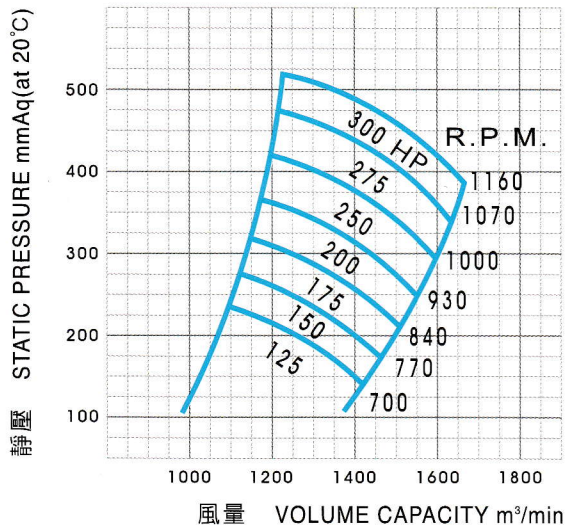
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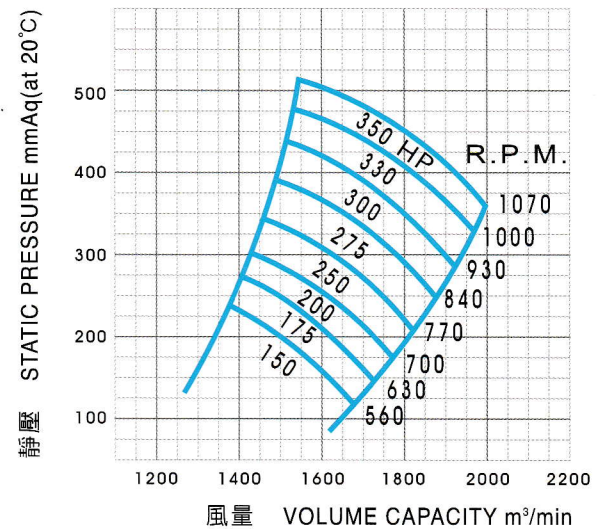
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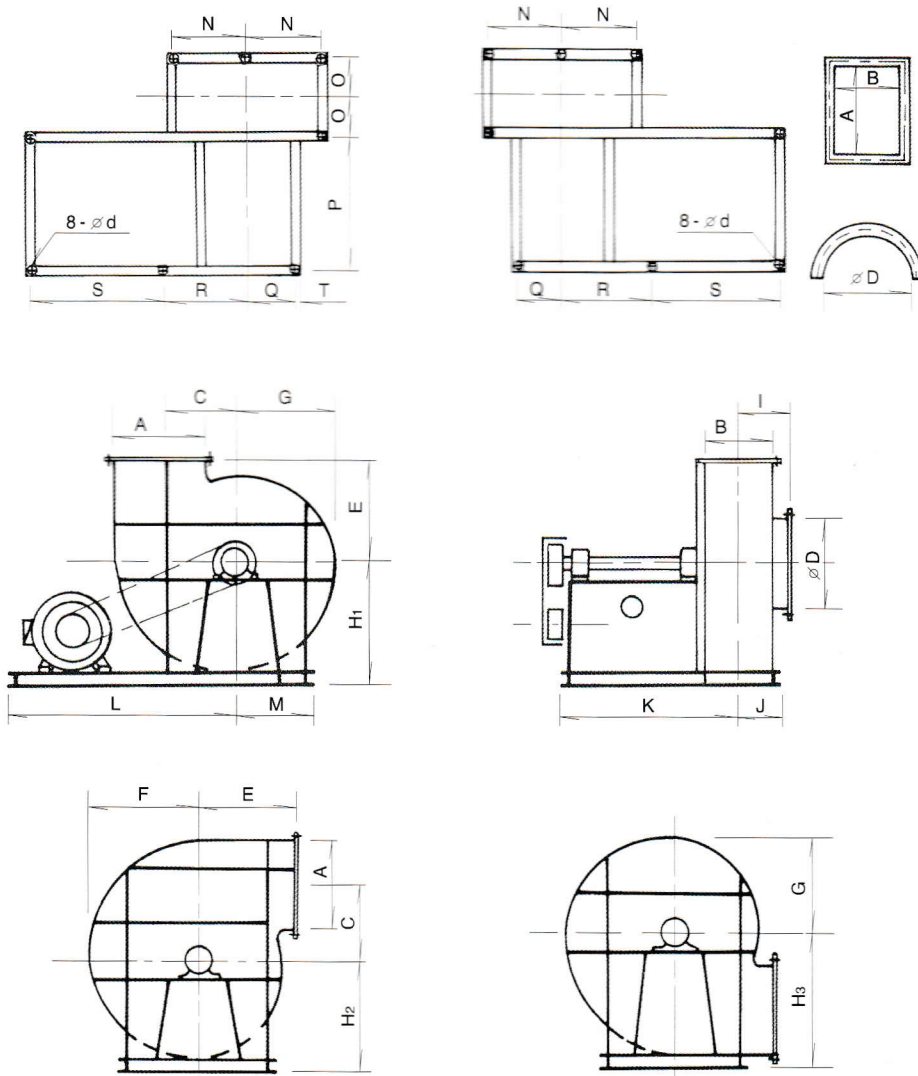


No-11



No-12





尺寸表 Dimensions

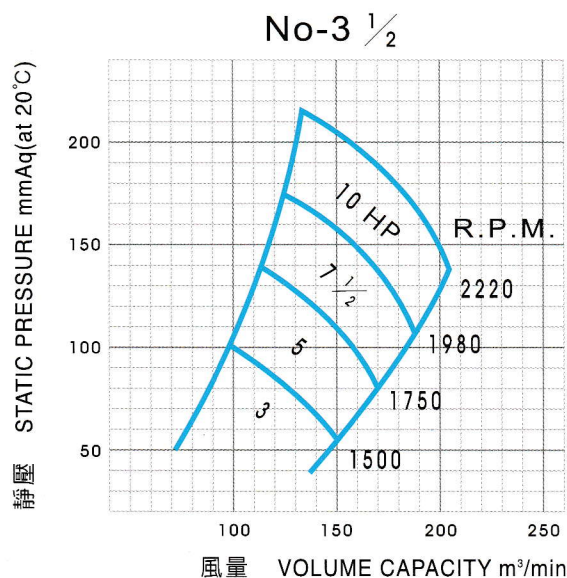
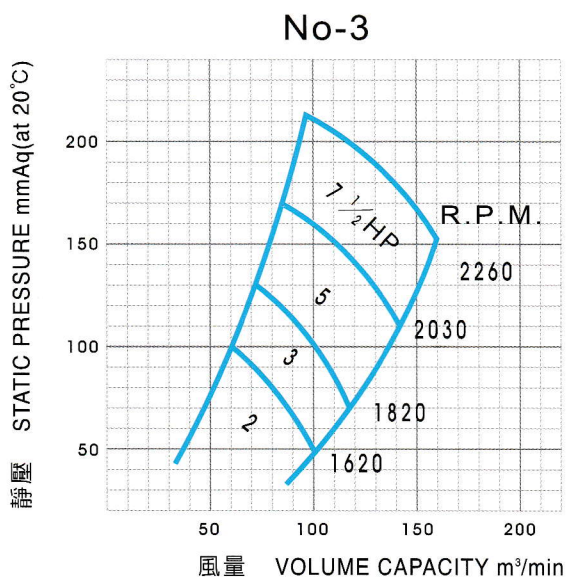
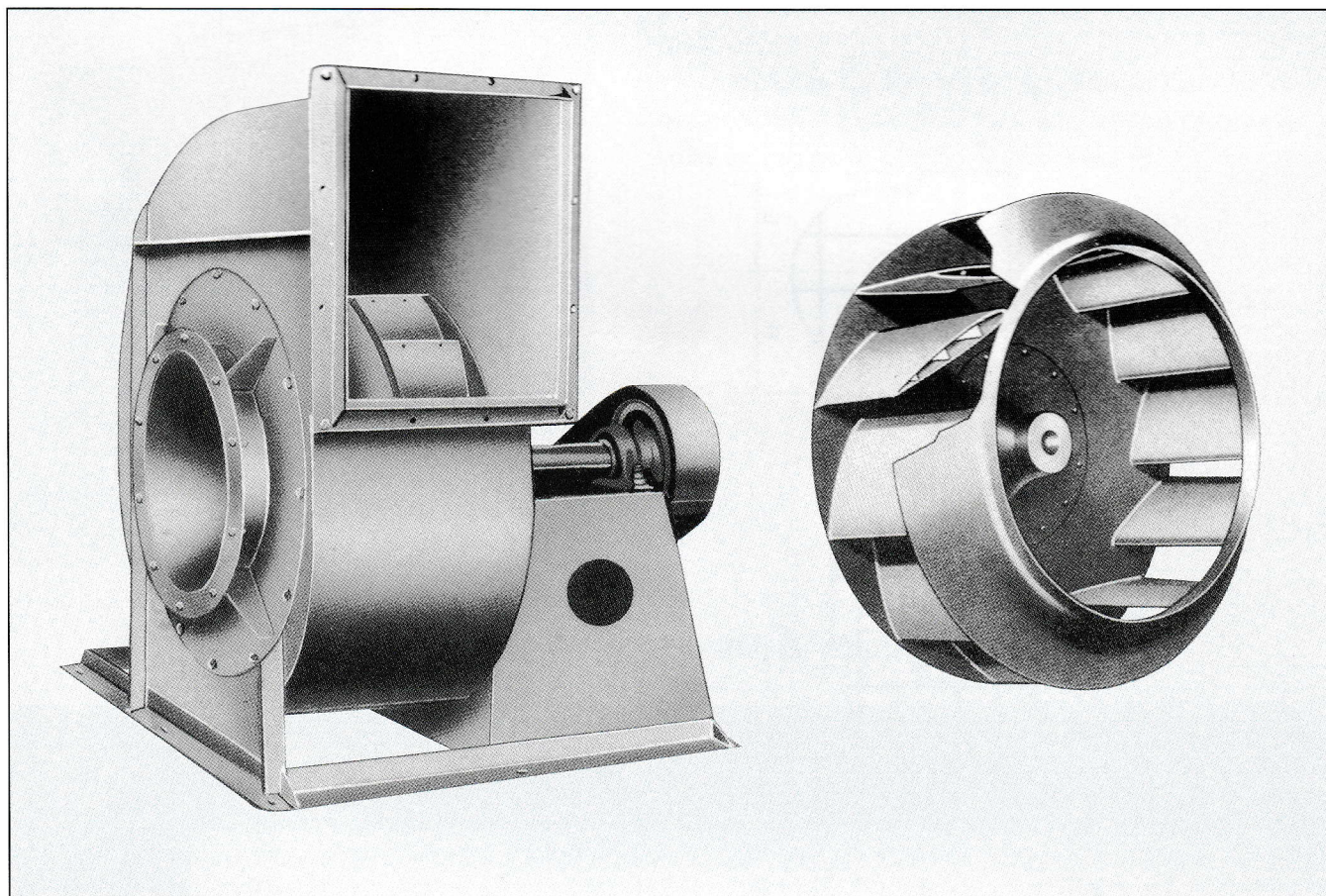
單位UNIT:mm

記號 編號	A	B	C	∅D	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	P	Q	R	S	T	∅d
3	300	250	280	300	330	360	310	400	350	475	175	165	565	660	260	244	149	400	149	248	396	16	12
3½	300	250	330	300	350	430	370	480	420	540	175	175	575	710	310	288	153	400	178	255	433	22	15
4	350	300	375	350	420	485	430	535	480	610	200	200	670	800	350	328	178	470	218	280	498	22	15
4½	400	350	430	400	450	550	480	615	545	705	235	240	760	895	390	365	210	520	245	310	555	30	19
5	450	400	475	450	510	610	530	675	595	775	260	260	865	975	445	415	235	600	260	343	602	30	19
5½	550	450	525	500	550	680	590	755	665	885	290	300	930	1045	495	460	265	630	300	355	655	30	19
6	600	500	570	550	630	760	660	865	760	980	320	300	1000	1110	510	488	278	700	308	390	698	22	19
6½	650	500	625	600	650	835	720	960	845	1085	320	313	1033	1193	543	515	285	720	335	415	750	28	22
7	700	550	630	650	700	870	765	995	890	1125	345	338	1138	1243	593	565	310	800	335	440	775	28	22
8	850	700	725	850	770	1005	865	1155	1015	1320	430	425	1375	1435	685	650	390	950	390	505	895	35	22
9	950	800	825	950	870	1120	960	1320	1160	1525	500	475	1575	1555	755	720	440	1100	465	528	992	35	24
10	1100	900	900	1100	1060	1250	1150	1470	1370	1680	570	540	1790	1700	850	810	500	1250	525	568	1092	40	24
11	1250	1000	1025	1250	1100	1400	1170	1620	1390	1880	620	590	2000	1830	930	890	550	1500	550	620	1170	40	24
12	1450	1150	1125	1450	1190	1550	1290	1770	1510	2080	710	665	2315	2205	1005	965	625	1650	600	783	1382	40	24

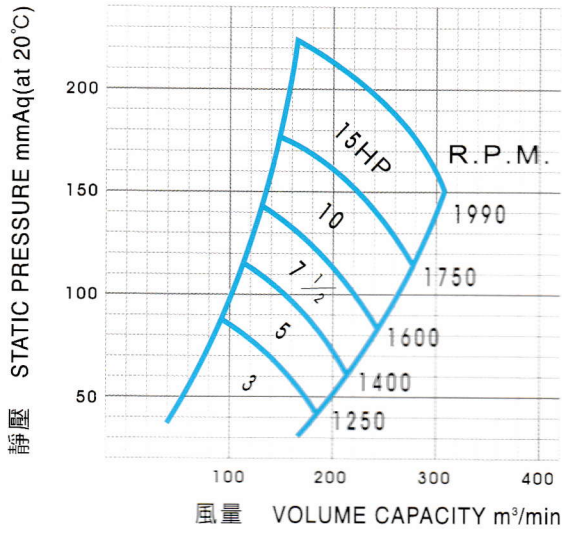
本機依飛機之翼截面原理，應用於風機之設計，有定載之特性不虞馬達超載，效率可達85%，其噪音亦為風機中最低者，適用於乾燥機循環風扇，一般排氣換氣和強制輸送。

The fans construction are based on aero engines' airflow design. It performs very efficiently (up to 85%) with constant load and unlikely to be over loaded. It is the quietest among all the fans.

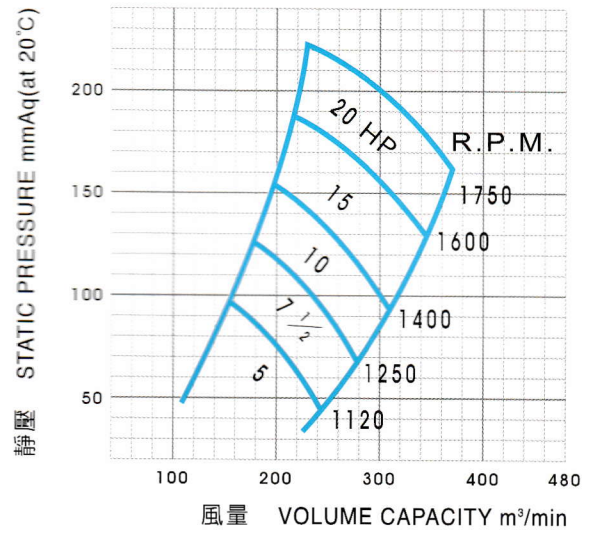
Suitable for dryers, aircirculations, general ventilation and force air flow.



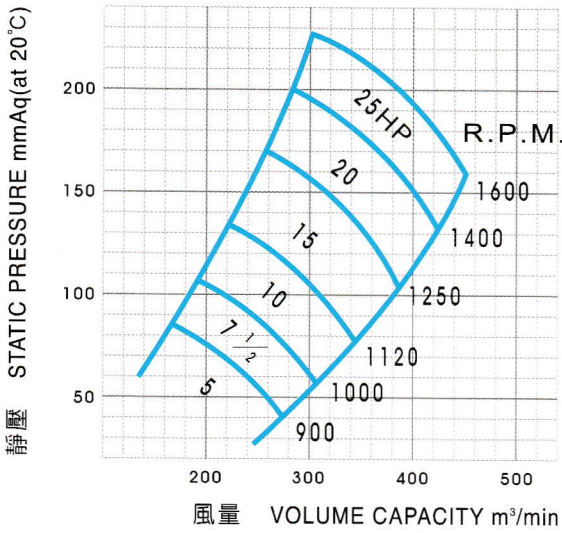
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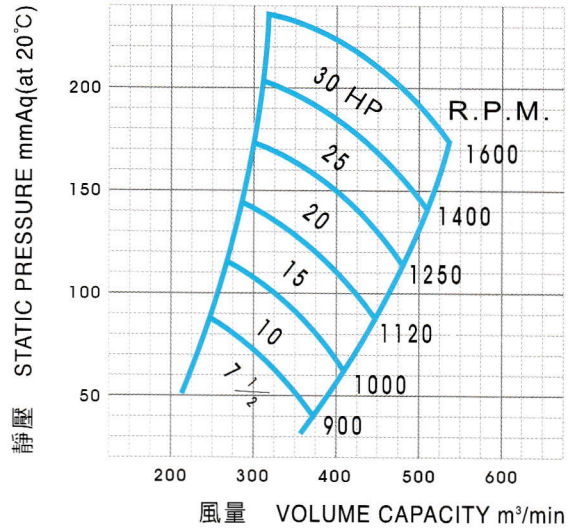
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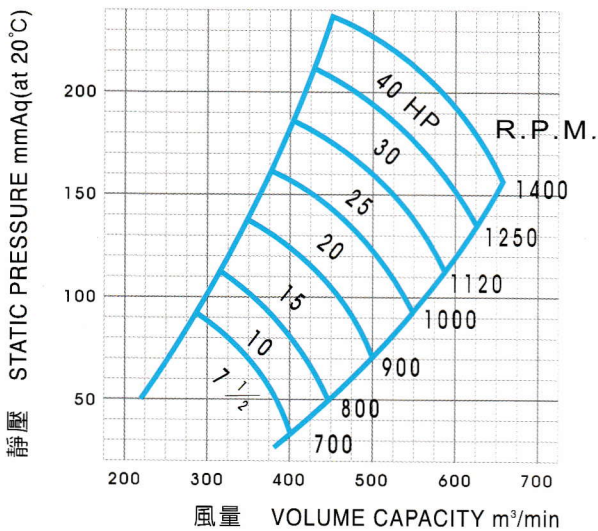
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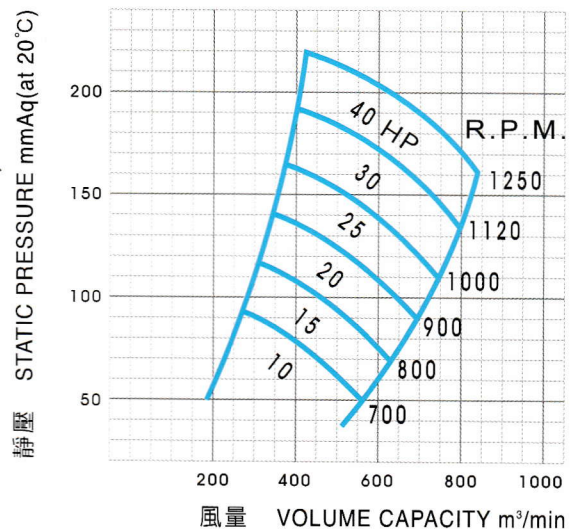
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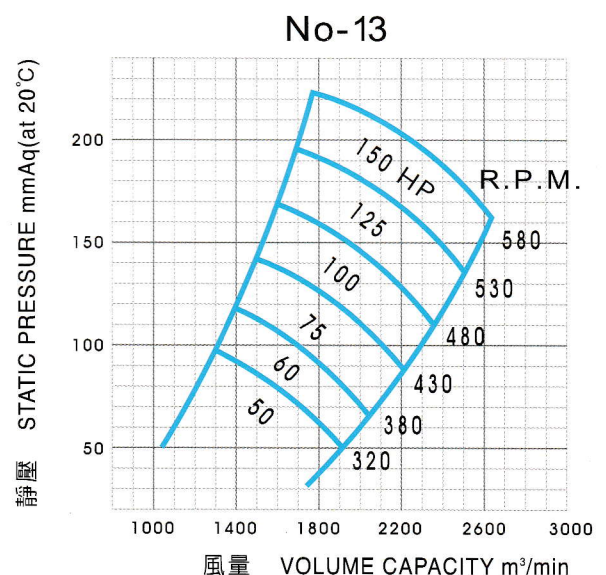
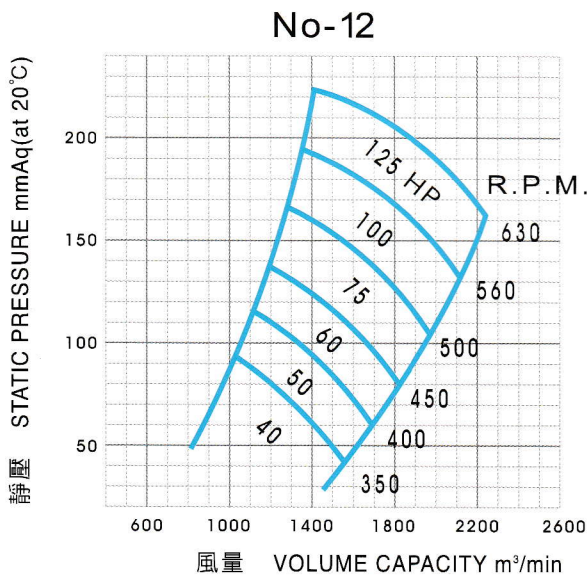
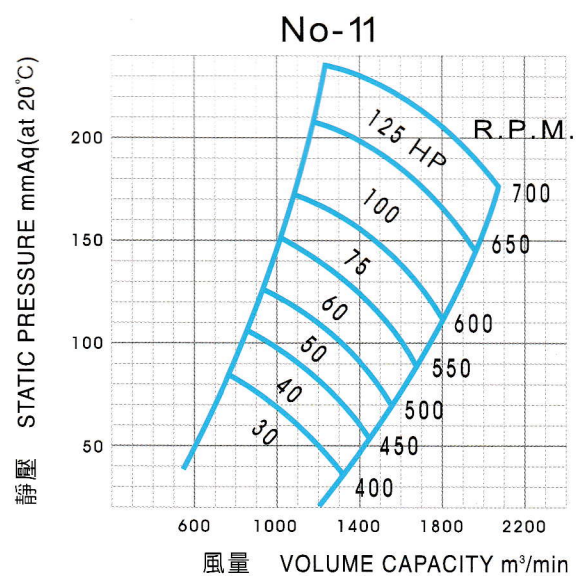
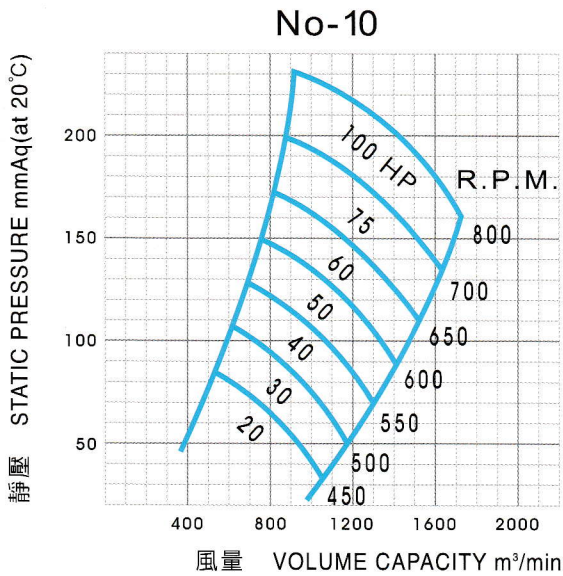
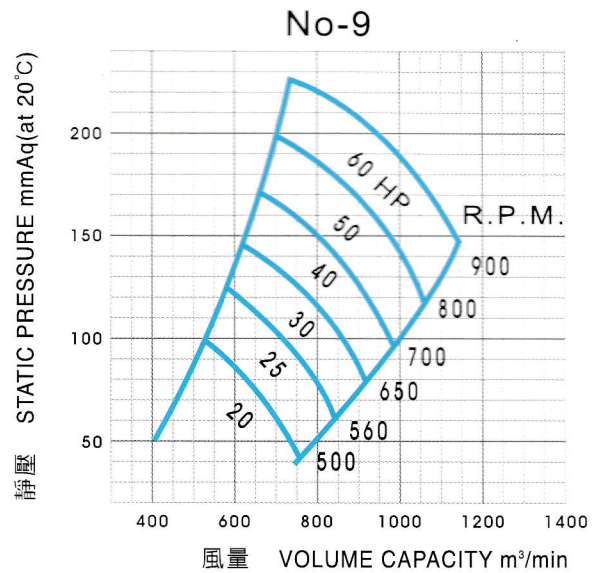
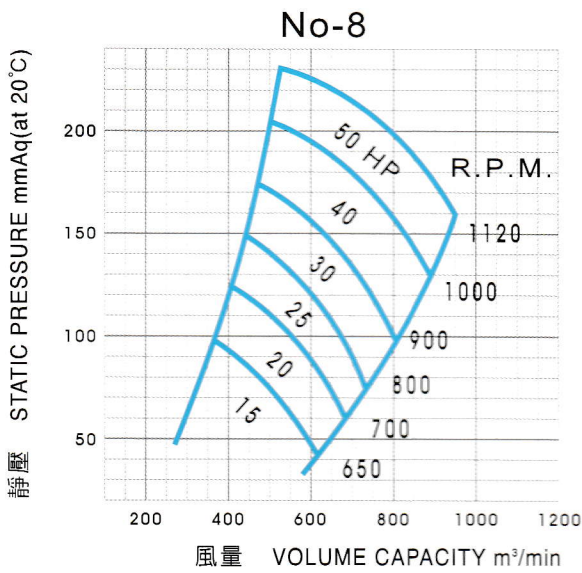


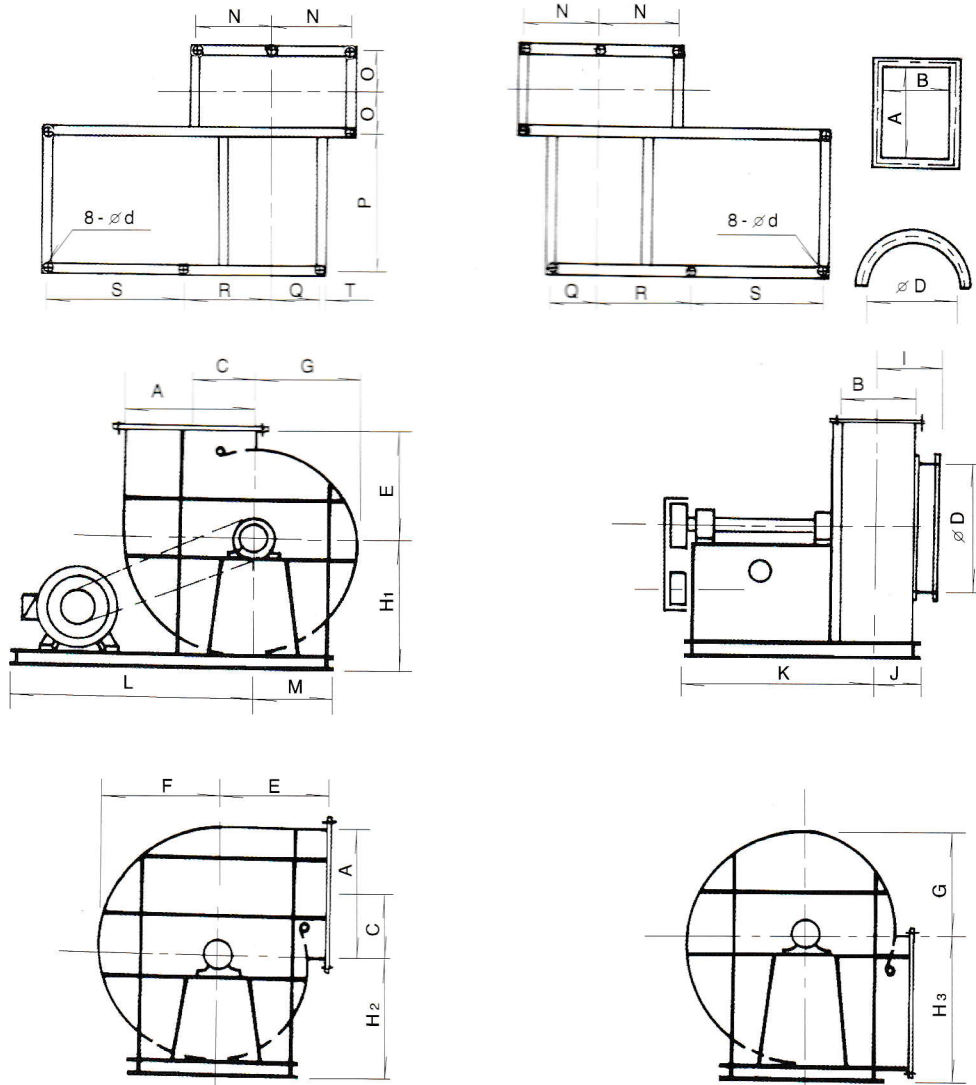
No-6



No-7



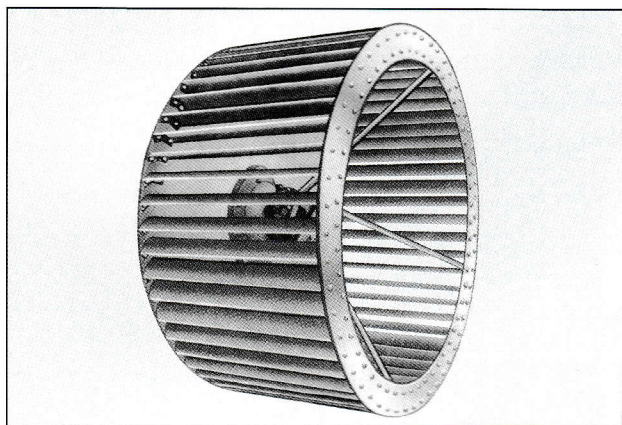




尺寸表 Dimensions

單位UNIT:mm

記號 編號	A	B	C	∅D	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	P	Q	R	S	T	∅d
3	450	300	225	460	350	410	345	450	385	500	190	190	570	620	270	254	174	380	149	228	376	16	12
3½	500	350	250	530	390	440	375	490	425	550	225	225	615	660	310	288	193	400	178	230	408	22	15
4	580	400	290	610	430	520	450	570	500	650	250	250	700	750	350	328	228	450	218	255	473	22	15
4½	660	450	330	690	470	595	495	645	545	710	285	275	775	820	390	368	253	500	238	280	518	22	15
5	740	500	370	760	540	670	570	735	635	810	315	315	915	925	445	415	270	600	260	317	578	30	19
5½	830	550	415	840	570	745	630	810	695	910	340	340	940	965	485	455	310	600	295	320	615	30	19
6	910	600	455	920	610	810	695	885	770	1015	380	375	1025	1015	535	500	340	650	320	330	650	35	19
7	1050	700	525	1070	730	950	790	1075	915	1225	450	413	1213	1193	593	565	385	800	335	415	750	28	22
8	1170	800	585	1220	790	980	830	1110	955	1320	500	463	1363	1273	673	645	435	900	385	430	815	28	22
9	1370	900	685	1370	960	1195	1030	1345	1180	1470	550	525	1625	1455	755	720	490	1100	465	477	943	35	22
10	1500	1000	750	1500	1050	1330	1145	1530	1345	1660	620	575	1775	1635	835	800	540	1200	515	543	1058	35	24
11	1700	1100	850	1700	1150	1450	1230	1650	1430	1920	680	640	1990	1710	910	870	600	1350	550	560	1110	40	24
12	1900	1200	950	1900	1250	1600	1370	1800	1570	2120	750	690	2190	1890	990	950	650	1500	600	625	1225	40	24
13	2100	1300	1050	2100	1400	1800	1560	2000	1760	2330	800	740	2390	2020	1070	1030	700	1650	650	665	1315	40	24



本機為低轉速之風機，且能輸出高風量之特性，低噪音，配合密閉式軸承壽命長，保養方便，適合一般通風換氣，廢氣排除及循環風扇。

This fans are designed for high volume of air flow at low revolution. It is fitted with sealed lubricant bearing for easy maintenance and long service.

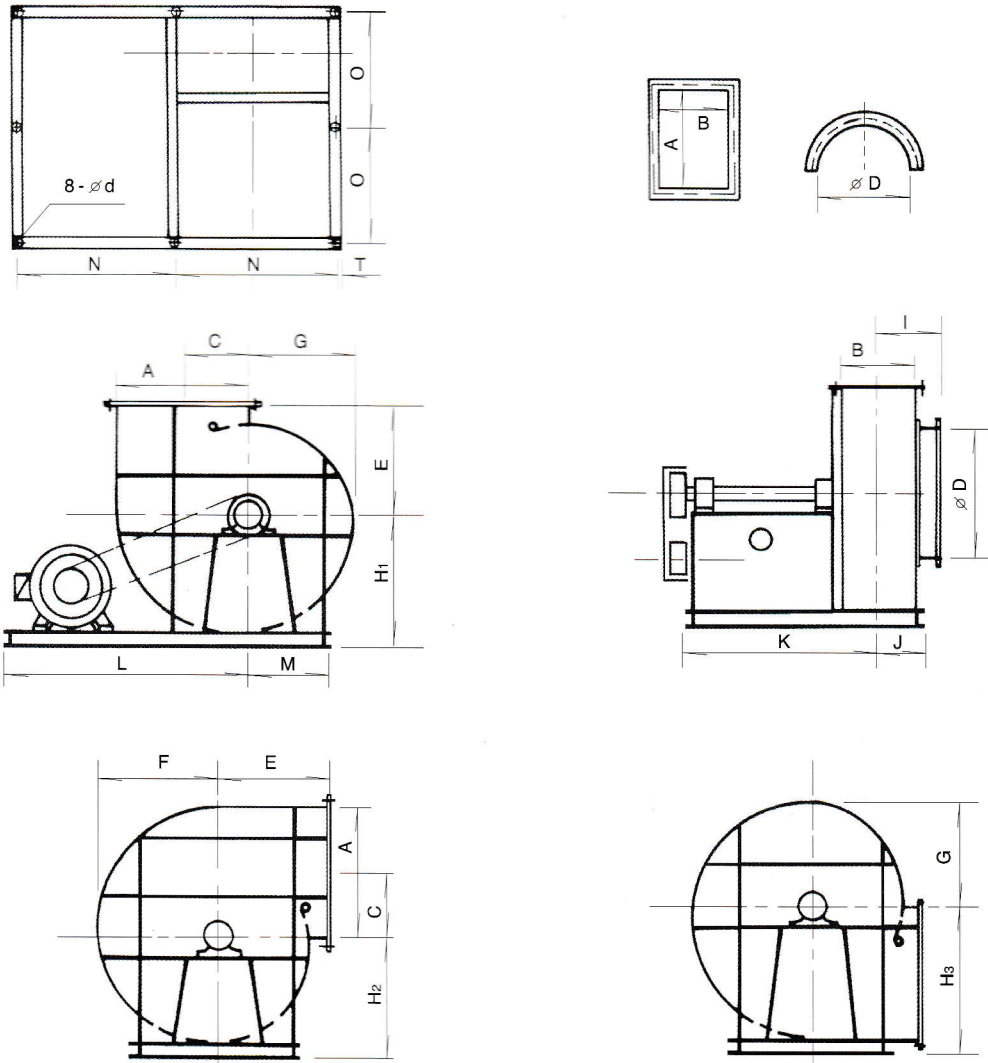
Suitable for general air ventilation, circulation and exhaust system.

選擇及能量 Selections & Ratings

BHP=軸馬力應加15~30%指定馬力

BHP: Add 15-30% to axial (motor) h.p.

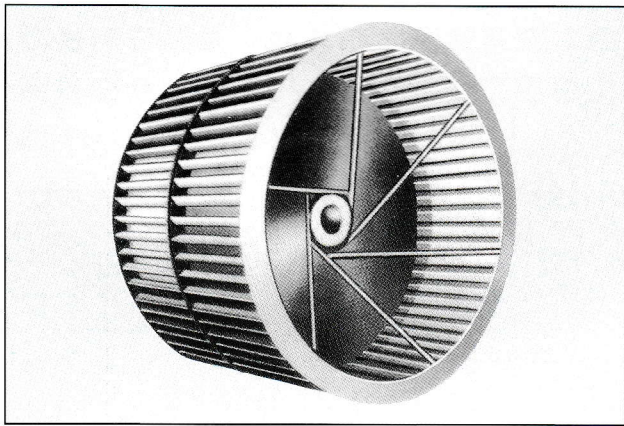
型 式	靜壓	15mm	20mm	25mm	30mm	40mm	50mm	60mm	75mm	90mm	105mm	125mm
SB-2	CMM	26	30	33	37	42	47	52	58	64	69	75
	RPM	728	840	940	1030	1190	1330	1455	1630	1780	1925	2100
	BHP	0.16	0.25	0.34	0.46	0.70	0.97	1.27	1.78	2.33	2.96	3.82
SB-2 1/2	CMM	41	47	53	58	66	74	82	91	100	108	118
	RPM	582	672	752	824	950	1060	1165	1330	1425	1540	1680
	BHP	0.25	0.38	0.54	0.70	1.08	1.51	1.99	2.77	3.64	4.60	5.96
SB-3	CMM	59	68	76	83	96	108	118	132	144	156	170
	RPM	485	560	626	686	792	886	970	1085	1190	1285	1400
	BHP	0.36	0.55	0.77	1.01	1.55	2.18	2.86	4.00	5.26	6.62	8.60
SB-3 1/2	CMM	80	98	102	112	130	146	160	178	196	212	232
	RPM	416	480	537	588	678	760	832	930	1020	1100	1200
	BHP	0.49	0.75	1.05	1.38	2.12	2.98	3.90	5.44	7.16	9.00	11.7
SB-4	CMM	105	120	135	148	170	190	210	235	256	278	302
	RPM	364	420	470	515	595	665	728	815	890	963	1050
	BHP	0.64	0.98	1.38	1.80	2.77	3.87	5.10	7.12	9.30	11.8	15.3
SB-4 1/2	CMM	132	152	172	186	242	246	265	296	325	350	328
	RPM	323	347	418	457	528	590	647	724	792	855	934
	BHP	0.81	1.24	1.74	2.28	3.52	4.89	6.43	9.02	11.8	14.9	19.3
SB-5	CMM	163	189	211	232	267	298	327	366	401	433	472
	RPM	291	336	376	412	475	531	582	650	713	770	840
	BHP	1.00	1.53	2.14	2.82	4.32	6.02	7.94	11.1	14.6	18.4	23.8
SB-5 1/2	CMM	196	228	256	280	322	362	396	442	485	524	572
	RPM	264	306	342	374	432	483	534	592	648	700	764
	BHP	1.20	1.85	2.59	3.40	5.23	7.32	9.70	13.0	17.7	22.2	28.9
SB-6	CMM	236	272	304	334	385	430	472	526	578	625	680
	RPM	242	280	313	343	396	443	485	542	595	642	700
	BHP	1.43	2.21	3.07	4.05	6.23	8.72	11.4	16.0	21.0	26.5	34.4
SB-7	CMM	320	370	414	454	524	586	642	718	786	850	926
	RPM	208	240	268	294	339	380	416	465	510	550	600
	BHP	1.95	3.00	4.18	5.50	8.49	11.9	15.6	21.8	28.6	36.1	46.8
SB-8	CMM	418	484	540	594	684	764	838	936	1025	1110	1210
	RPM	182	210	235	258	297	332	364	407	445	482	525
	BHP	2.55	3.91	5.45	7.21	11.1	15.4	20.4	28.4	41.0	47.1	61.2
SB-9	CMM	532	612	685	750	866	968	1060	1190	1300	1405	1530
	RPM	162	187	209	229	264	295	324	362	396	428	467
	BHP	3.23	4.96	6.92	9.11	14.0	19.5	25.7	36.1	47.3	59.7	77.2
SB-10	CMM	655	750	845	925	1070	1190	1310	1460	1600	1730	1890
	RPM	146	168	188	206	238	266	291	325	356	385	420
	BHP	3.98	6.12	8.56	11.3	17.3	24.2	31.8	44.2	58.2	73.5	95.7



尺寸表 Dimensions

單位UNIT:mm

記號 編號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	T	φd
2	300	230	150	300	215	265	225	295	255	335	155	155	405	440	195	299	264	16	12
2½	380	300	190	380	280	330	280	370	320	430	190	190	490	530	230	364	324	16	12
3	450	350	225	460	350	410	345	450	385	500	225	215	595	620	270	429	389	16	12
3½	500	400	250	530	390	440	375	490	425	550	250	250	650	660	310	463	428	22	15
4	580	450	290	610	430	520	450	570	500	650	275	275	725	750	350	528	478	22	15
4½	660	500	330	690	470	595	495	645	545	710	310	300	800	820	390	583	528	22	15
5	740	550	370	760	540	670	570	735	635	810	340	340	940	925	445	655	610	30	19
5½	830	600	415	840	570	745	630	810	695	910	380	365	1015	965	485	695	660	30	19
6	910	650	455	920	610	810	695	875	760	990	405	390	1040	1005	525	735	685	30	19
7	1050	800	525	1070	730	950	790	1025	865	1150	500	475	1275	1105	605	820	840	35	19
8	1170	900	585	1220	790	980	830	1110	955	1320	550	513	1413	1273	673	946	936	28	22
9	1370	950	685	1370	960	1195	1030	1345	1180	1470	575	550	1650	1455	755	1070	1065	35	22
10	1500	1050	750	1500	1050	1330	1145	1530	1345	1660	645	600	1800	1635	835	1200	1165	35	24



本機為雙入口之外型，構造簡單配合密閉式軸承於兩旁，保養方便壽命長，且能輸出最大之風量和低噪音，多使用於空調設備通風換氣和冷卻設備。

The fans are designed for double inlets. Its design and structure are simplified for easy maintenance and long life service. High volume of air flow can be achieved at very low noise level.

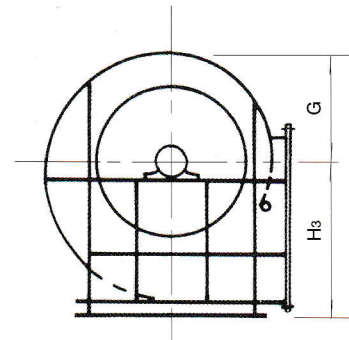
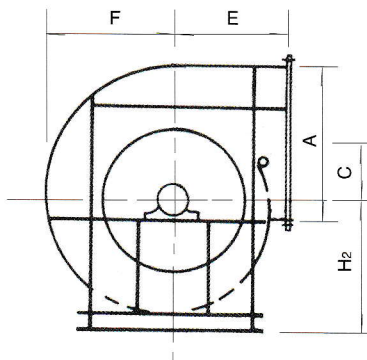
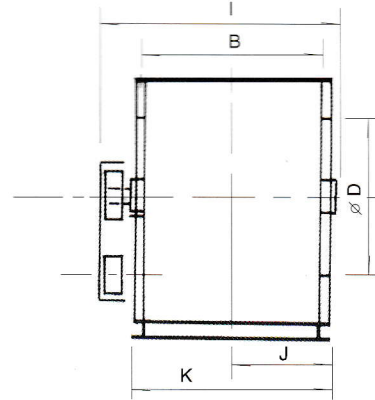
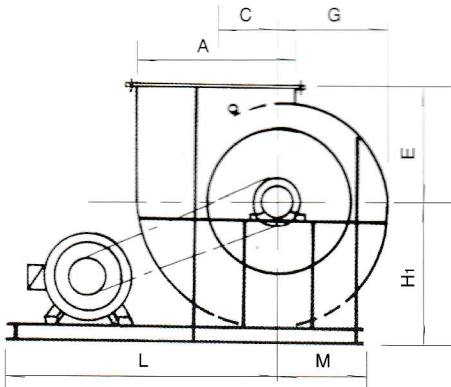
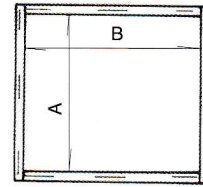
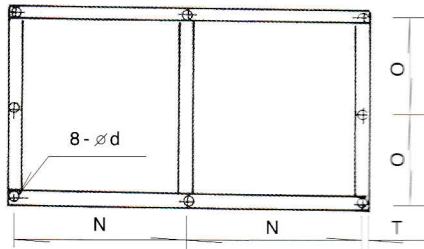
Suitable for air conditioning, ventilations and cooling systems.

選擇及能量 Selections & Ratings

BHP=軸馬力應加15~30%指定馬力

BHP: Add 15-30% to axial (motor) h.p.

型 式	靜壓	16mm	20mm	25mm	32mm	40mm	45mm	50mm	63mm	80mm	90mm	100mm
SSB-2	CMM	50.0	58.0	65.0	72.0	81.0	90.0	101.0	112	121	130	137
	RPM	722	810	912	1010	1135	1212	1270	1460	1635	1736	1836
	BHP	0.30	0.12	0.60	0.85	1.20	1.54	1.71	2.76	3.68	4.42	5.22
SSB-2 1/2	CMM	80.0	90.0	101	112	127	140	157	165	175	189	203
	RPM	586	650	730	810	916	970	1040	1440	1300	1378	1450
	BHP	0.46	0.67	0.93	1.32	1.92	2.41	3.05	3.94	5.22	6.32	7.53
SSB-3	CMM	127	145	165	180	203	224	254	265	280	304	330
	RPM	461	510	570	640	723	766	815	909	1030	1087	1150
	BHP	0.75	1.07	1.51	2.13	3.00	3.85	4.90	6.35	8.37	10.1	12.0
SSB-3 1/2	CMM	157	180	203	224	254	280	315	330	350	378	405
	RPM	416	459	515	580	652	686	730	809	920	975	1030
	BHP	0.93	1.32	1.88	2.65	3.75	4.82	6.12	7.93	10.4	12.6	15.0
SSB-4	CMM	203	330	360	405	425	450	487	523	545	586	660
	RPM	365	405	480	538	600	640	670	750	836	887	946
	BHP	1.20	1.70	4.15	5.76	7.38	8.85	10.5	13.6	17.8	21.1	27.0
SSB-4 1/2	CMM	250	285	325	360	405	450	500	529	560	605	650
	RPM	325	360	456	458	510	543	580	640	730	771	815
	BHP	1.50	2.11	3.71	4.23	5.98	7.70	9.76	12.6	16.7	20.2	23.9
SSB-5	CMM	315	360	405	450	508	560	630	664	700	760	810
	RPM	292	325	365	405	458	485	520	572	650	690	725
	BHP	1.87	2.65	3.65	5.30	7.50	9.64	12.2	15.8	20.9	25.3	30.1
SSB-5 1/2	CMM	405	462	523	580	650	720	810	848	900	970	1040
	RPM	258	285	322	360	404	428	456	505	575	608	640
	BHP	2.41	3.40	4.82	6.80	9.62	12.3	15.6	20.3	26.8	32.4	38.5
SSB-6	CMM	500	580	650	730	825	900	1000	1060	1120	1120	1320
	RPM	230	256	288	321	362	383	411	452	512	544	576
	BHP	3.00	4.24	6.03	8.49	12.0	15.4	19.5	25.3	33.5	40.4	48.2
SSB-7	CMM	615	700	800	879	986	1010	1220	1323	1380	1514	1600
	RPM	206	230	258	290	324	343	369	406	460	487	515
	BHP	3.76	5.32	7.90	10.5	15.8	19.2	24.5	31.6	41.8	50.6	60.3
SSB-8	CMM	780	800	1110	1120	1250	1400	1550	1584	1750	1812	2030
	RPM	186	206	258	258	291	308	330	363	412	438	462
	BHP	4.62	6.53	11.4	13.0	18.4	23.7	30.1	38.9	51.5	62.4	74.3
SSB-9	CMM	975	1120	1270	1140	1570	1750	1950	2052	2180	2347	2520
	RPM	166	185	206	233	261	276	395	325	370	391	412
	BHP	5.82	8.24	11.6	16.4	23.3	29.8	37.9	49.1	64.8	78.3	93.1
SSB-10	CMM	1259	1438	1631	1800	2025	2250	2519	2650	2813	3031	3263
	RPM	146	162	180	203	229	242	260	286	325	344	364
	BHP	7.16	10.5	15.0	21.1	30.5	38.3	48.7	62.9	83.2	100	120



尺寸表 Dimensions

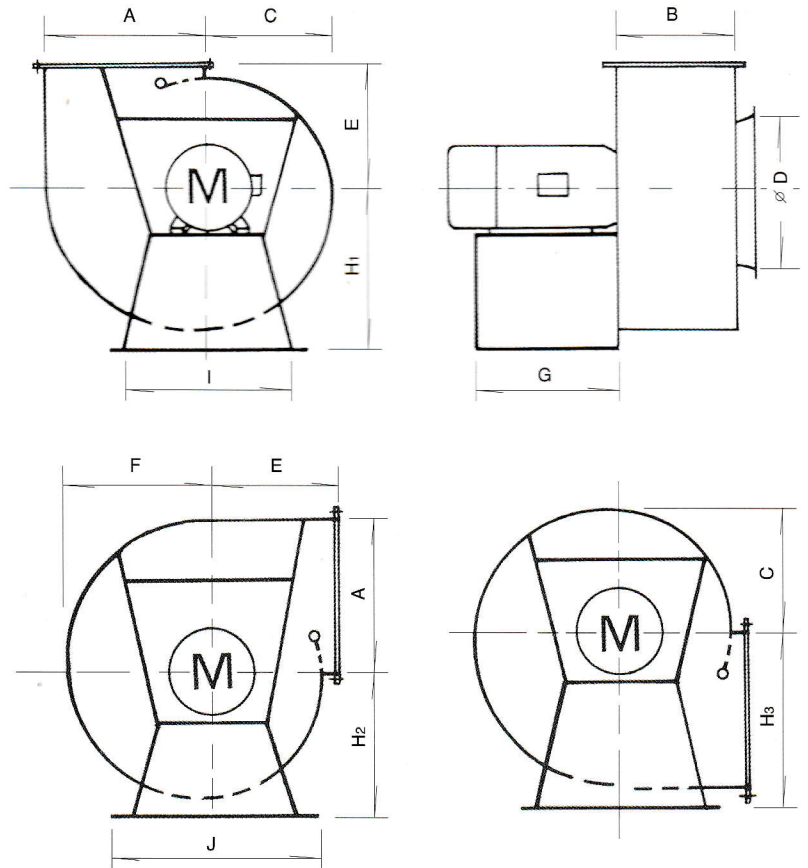
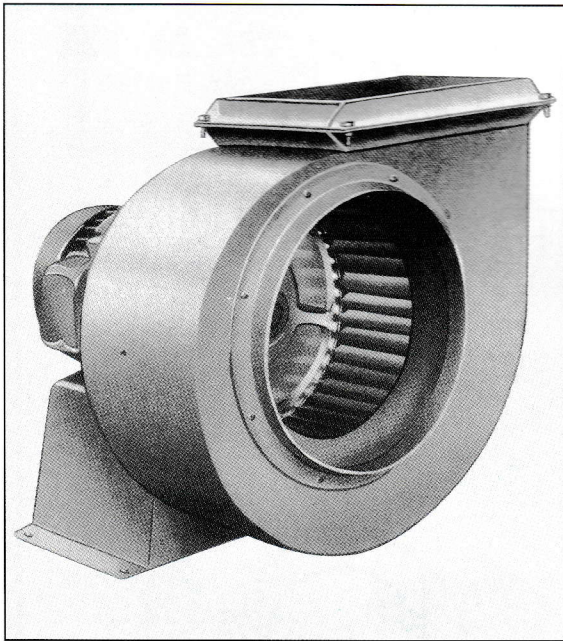
單位UNIT:mm

記號 編號	A	B	C	φD	E	F	G	H ₁	H ₂	H ₃	I	J	K	L	M	N	O	T	φd
2	330	360	135	300	215	265	225	295	255	335	580	220	440	600	230	395	204	16	12
2½	410	460	175	380	280	330	290	370	320	430	690	270	540	770	280	509	254	16	12
3	480	600	210	460	350	410	345	460	390	510	860	350	700	910	320	593	328	22	15
3½	560	700	220	530	390	440	375	490	425	550	960	400	800	1000	370	663	378	22	15
4	650	800	260	610	430	520	450	570	500	650	1100	450	900	1135	410	750	428	22	15
4½	720	900	295	690	470	595	495	645	545	710	1220	500	1000	1205	460	810	475	22	15
5	800	1000	340	760	540	670	570	735	635	810	1320	565	1130	1355	505	900	535	30	19
5½	900	1120	380	840	570	745	630	810	695	910	1450	625	1250	1445	545	965	595	30	19
6	1000	1250	415	920	610	810	695	885	770	1015	1600	700	1400	1590	605	1062	665	30	19
7	1120	1400	490	1070	730	950	790	1075	915	1225	1880	763	1526	1763	663	1185	735	35	19
8	1250	1600	545	1220	790	980	830	1110	955	1320	2150	863	1726	1933	733	1305	835	28	22
9	1420	1800	660	1370	960	1195	1030	1345	1180	1470	2430	975	1950	2295	825	1525	940	35	22
10	1600	2000	700	1500	1050	1330	1145	1530	1345	1660	2730	1075	2150	2475	905	1655	1040	35	24

本機為馬達直結驅動式，性能佳，佔地小，風量大且噪音低，葉片經沖壓成形，角度正確對氣流之安穩性優良，適用於小型場所之通風換氣等。

The fans are driven directly by the motors. Its press-processed blades are accurately shaped which allows great volume of air flow and very quiet in operation.

It is compact and well suited for confine areas.



選擇及能量 Selections & Ratings

型 式 TYPE	馬 達		風 量 m ³ /min	靜 壓 mmAq	尺 寸 (Dimensions)mm											
	HP	RPM			A	B	C	øD	E	F	G	H ₁	H ₂	H ₃	I	J
SD-1½	½	1750	26	45	230	160	180	240	185	210	170	235	205	275	200	260
SD-1¾	½	1160	40	20	255	170	200	275	195	230	190	260	230	300	230	300
SD-1¾	1	1750	34	50	255	170	200	275	195	230	190	260	230	300	230	300
SD-1¾	2	1750	50	50	255	185	200	275	195	230	220	260	230	300	230	300
SD-2	2	1160	75	35	300	210	225	320	215	265	220	295	255	350	260	340
SD-2	3	1750	61	75	300	210	225	320	215	265	240	295	255	350	260	340
SD-2½	5	1750	100	90	380	250	280	380	275	330	250	370	320	440	330	410
SD-2½	7½	1750	110	105	380	300	280	380	275	330	280	370	320	440	330	410



設計參考資料

DESIGN MATERIALS REFERENCE

室(廠)內所需換氣量及噪音標準

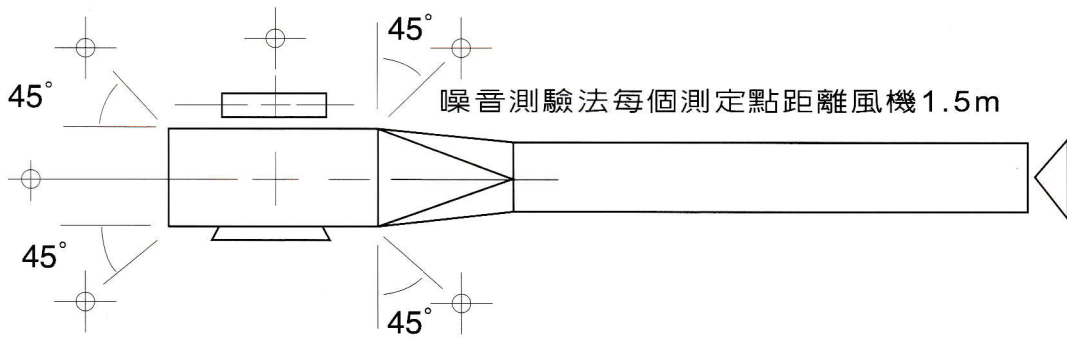
$$\text{計算公式 } Q = \frac{v \cdot a}{60}$$

Q: 必要換氣量

V: 室內容積

a: 每小時換氣次數

場所	換氣次數 次/h	容許噪音	場所	換氣次數 次/h	容許噪音
圖書館	6-10	35-40 db	餐廳	7-20	50-55 db
醫院	4-6	35-40 db	廚房	20-60	60-65 db
戲院	10-20	40-45 db	體育館	15-30	60-65 db
教室	6-10	45 db	一般工廠	6-12	60-65 db
辦公室	6-12	55 db	機械工廠	12-20	70-75 db
百貨公司	10-15	50-55 db	鍋爐工廠	15-30	75-80 db



流量

m ³ /h (cmh)	m ³ /min (cmm)	(英) gal/min	(米) gal/min	ft ³ /h	ft ³ /min (cfm)
3.6	0.060	13.197	15.8514	127.14	21.192
1	0.0167	3.6658	4.4032	35.317	0.5881
60.0	1	219.98	264.1833	2,119.183	35.3165
0.2728	0.0045	1	1.2011	9.6342	0.1606
0.2271	0.0038	0.8325	1	8.0208	0.1777
0.0283	0.0005	0.1038	0.1247	1	0.0167
1.6989	0.0283	6.2279	7.4855	60.0	1

壓力

kg/cm ² (abs)	氣壓 (atm)	水銀柱		水柱 (15°C) Aq	
		mmHg	inHg	mmAq	ftAq
1	0.9678	735.5	28.96	10.01	32.883
0.0703	0.0680	51.71	2.0355	0.704	2.250
1.0333	1	760	29.92	10.34	33.933
0.0014	0.0013	1	0.0394	0.0136	0.0446
0.0345	0.0334	25.4	1	0.3456	1.134
0.0999	0.0967	73.49	2.893	1	3.2808
0.0305	0.0295	22.404	0.8819	0.3048	1

動力

HP	KW	kg.m/sec	kcal/sec
0.9859	0.7355	75	0.1757
1	0.746	76.07	0.1782
1.3405	1	101.97	0.2389
0.0132	0.0098	1	0.0023
0.0018	0.0014	0.1383	0.0332
5.611	4.186	426.9	1
1.414	1.055	107.6	0.2520



風速，風量相抵抗之關係圖(圓形管)

如圖：在風量600M³/min，通風管直徑1000mm
時，通風管內風速為13m/sec，每100m的
磨擦損失為20mmAq。

例：如長方形通風管450mmx300mm，換算
成圓形通風管時，可由下列公式求得。

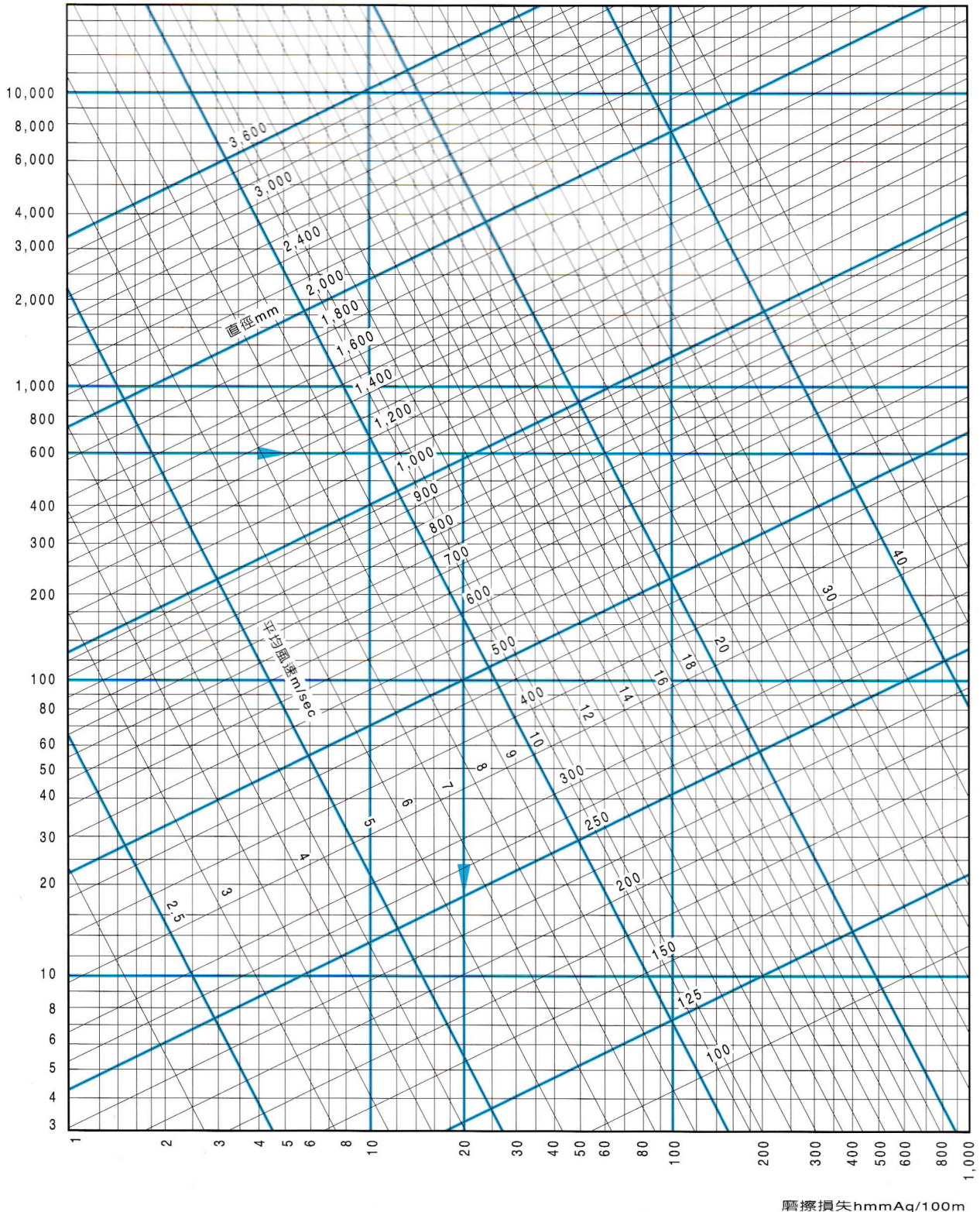
$$De = 1.3 \sqrt{\frac{(axb)^5}{(axb)^2}}$$

De = 圓形通風管的直徑(mm)

a = 長方形通風管的長邊之長度(mm)

b = 長方形通風管的短邊之長度(mm)

圓型直管磨擦損失



磨擦損失 hmmAq/100m

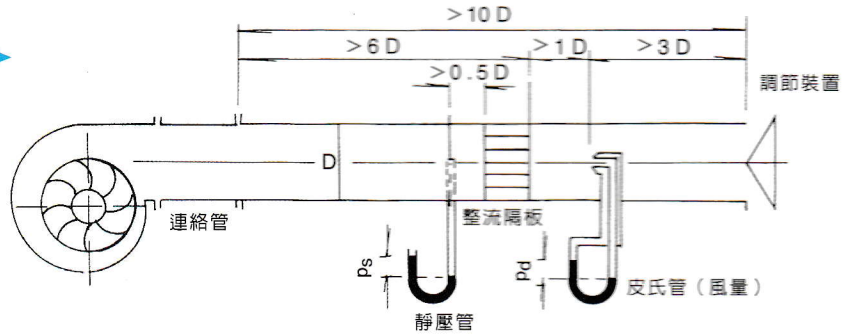


(送風機標準性能測試方法)

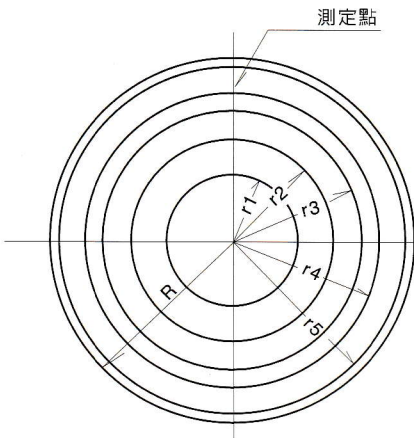
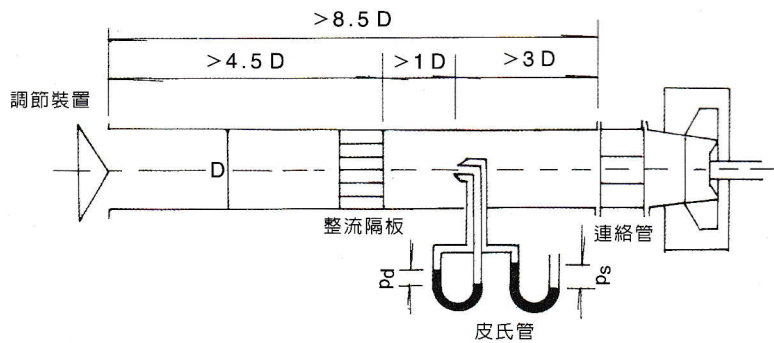
FANS FUNCTION & TESTING METHODOLOGY

依CNS (國家標準) 送風機之性能測試如下：

出口配管



入口配管



- r1=0.316R
- r2=0.548R
- r3=0.707R
- r4=0.837R
- r5=0.949R

$$pd = \frac{pd① + pd② + \dots + pd⑩}{20}$$

$$V = \sqrt{2g \frac{Pd}{r}} \dots \dots \dots (1)$$

$$r = 1.2 \text{ kg/m}^3 \quad g = 9.8 \text{ m/sec}^2$$

$$Q = A \cdot V \cdot 60 \dots \dots \dots (2)$$

標準狀態溫度為20°C 絕對壓力760mmHg，相對溼度65%如風量，靜壓，軸動力於特定溫度，壓力狀態下換算公式如下：

$$Q_1 = Q_2 \cdot \frac{P_2}{P_1} \cdot \frac{T_1}{T_2} \dots \dots \dots (3)$$

$$P_1 = P_2 \cdot \frac{T_2}{T_1} \dots \dots \dots (4)$$

$$L_1 = L_2 \cdot \frac{T_2}{T_1} \dots \dots \dots (5)$$

風量計算公式

$$Q = 60 \cdot A \cdot V$$

$$V = \sqrt{2g \frac{Pd}{r}}$$

$$A = \pi d^2 / 4$$

送風機相似定律

$$\frac{Q_2}{Q_1} = \left(\frac{N_2}{N_1}\right) \times \left(\frac{D_2}{D_1}\right)^3$$

$$\frac{PS_2}{PS_1} = \left(\frac{N_2}{N_1}\right)^2 \times \left(\frac{D_2}{D_1}\right)^2 \times \left(\frac{r_2}{r_1}\right)$$

$$\frac{HP_2}{HP_1} = \left(\frac{N_2}{N_1}\right)^3 \times \left(\frac{D_2}{D_1}\right)^5 \times \left(\frac{r_2}{r_1}\right)$$

Q=風量(m³/min)

A=管路面積(m²)

V=風速(m/sec)

g=重力加速度(m/sec²)

r=氣體比重量(kg/m³)

d=管路直徑(m)

Pd=動壓(mmAq)

Ps=靜壓(mmAq)

N: 轉速(RPM)

O: 代表尺寸(mm)

T: 絕對溫度

L: 軸動力

如蒙惠顧，請將下列諸項告訴我們，至為感謝！

We welcome all enquires and your provision of the following relevant particulars on specifications will facilitate our response.

一. 型式：型別及出口方向。

Model : Type and Discharge direction.

二. 用途：使用場所、使用狀況 連續使用或管制使用。

Set Up : Locations and directions of applications, i.e. continuous or regulate control supplies.

三. 輸送性質：重量、種類、比重、成分。

Transferences: Weight, kind, composition, specific gravity to air.

四. 溫度：吸入溫度及其變化(正常狀態20°C)。

Temperature: Inlet temperature and its variations (ambient temperature 20°C)

五. 壓力：絕對壓力差及溫度之關係(靜壓mmAq)。

Pressure: Absolute pressure difference in relation to the temperature. (Static pressure: mmAq)

六. 風量：容量及與溫度之關係(風量m³/min或CFM)。

Quantum : Volume in relation to temperature. (m³/min or CFM)。

七. 原動機：馬力、極數、週波式、電壓。

Motor : HP poles, cycles, volts and phases.

八. 其它：如可能繪出裝置場之大概圖。

Others : Furnishing of plans or technical drawings indicating locations and directions of the fans or blowers, will enable us to repond and meet your requirements promptly and correctly.



LONG FONG

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