

Ring Blower

Side Channel Blower

環形鼓風機



IE3

Premium Efficiency



CHUAN FAN



台灣產品新型專利第 205327 • 222602 • 118075 • 342421 • 398031 號

環形鼓風機 Ring Blower (Side Channel Blower)



自動繞線機
Coil winder



自動入線機
Stator coil & wedge inserter



馬達定子檢驗機
Stator Test Machine



RB-200



RB-400



RB-750



RB-022



自動凡立水處理機
Vanish Machine



裝配線與自動測試
Assemble Line



馬達動力測試
Motor Test Systems

環形鼓風機 Ring Blower (Side Channel Blower)



低壓鑄造機
Low Pressure Casting Machines



重力壓鑄機
Gravity Die Casting Machines



壓鑄機
Die Casting Machines



RB-033



RB-055



RB-077



RB-1525



加工區
CNC Vertical Lache



加工區
Machining Centers



裝配
Assemble

環形鼓風機 Ring Blower (Side Channel Blower)

特點：

小型 ● 重量輕 ● 高風壓

前傾式葉片設計，體積小、質量輕且較有高壓力之產生。

低噪音

新設計，能消除切風時產生之高頻及特殊之消音材質，大幅降低噪音比。

低震動

葉片均經過電腦平衡校正與高精密的機械加工，使震動降到最低。

Features:

Low noise and vibration

Dynamic balancing minimizes vibration.

Dust-proofed shaft seal

Protects bearings from contaminated air stream and possible foreign particle damage.

High reliability

Directly connected motor shaft-impeller provides reliable, long term performance.

No gears, belts, motor brushes or sliding blades to require periodic maintenance.

Space-efficient design

Unique design results in substantial airflows at moderate pressures in minimum space and weight.

Versatility

Easily throttled and changed from pressure to suction operation. May be mounted in a variety of fashiond.

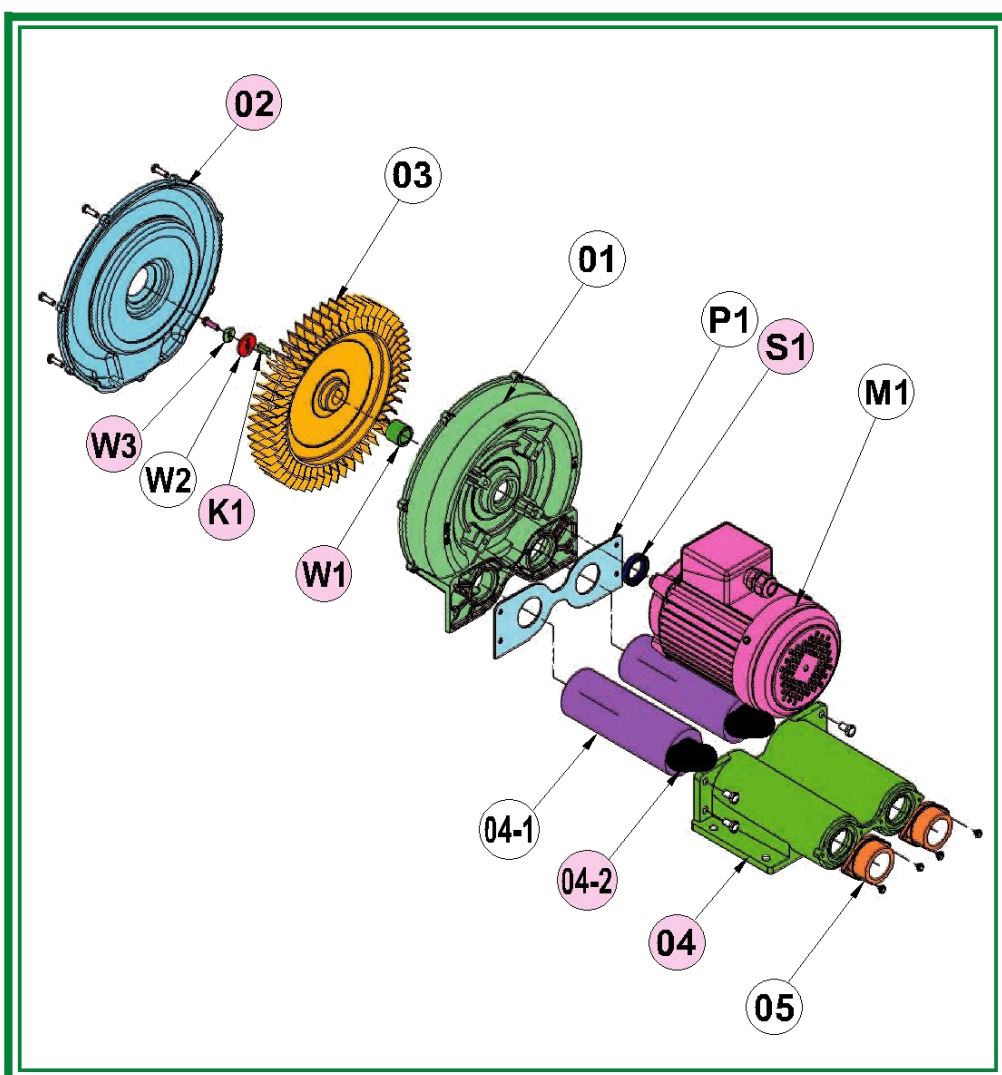
Stable airflow

Centrifugal compressor design delivers smooth, stable airflow with no pulsations.

High-pressure airflow

Produces continuous high-pressure airflow. The Ring Blower is ideally suited to many industrial applications.

編號 number	零件名稱 Description
01	機 殼 Housing
02	機 蓋 Cover
03	葉 輪 Impeller
04	基 座 Base
04-1	消 音 棉 Sound absorption material
04-2	沖 孔 網 Perforated metal mesh
05	法 蘭 Flange
K1	滑 鍵 Key
P1	密 合 墊 Gasket
S1	油 封 Oil seal
M1	馬 達 Motor
W1	套 筒 Sleeve
W2	防 鬆 墊 片 Captive ring
W3	防 鬆 墊 片 Captive ring



環形鼓風機 Ring Blower (Side Channel Blower)

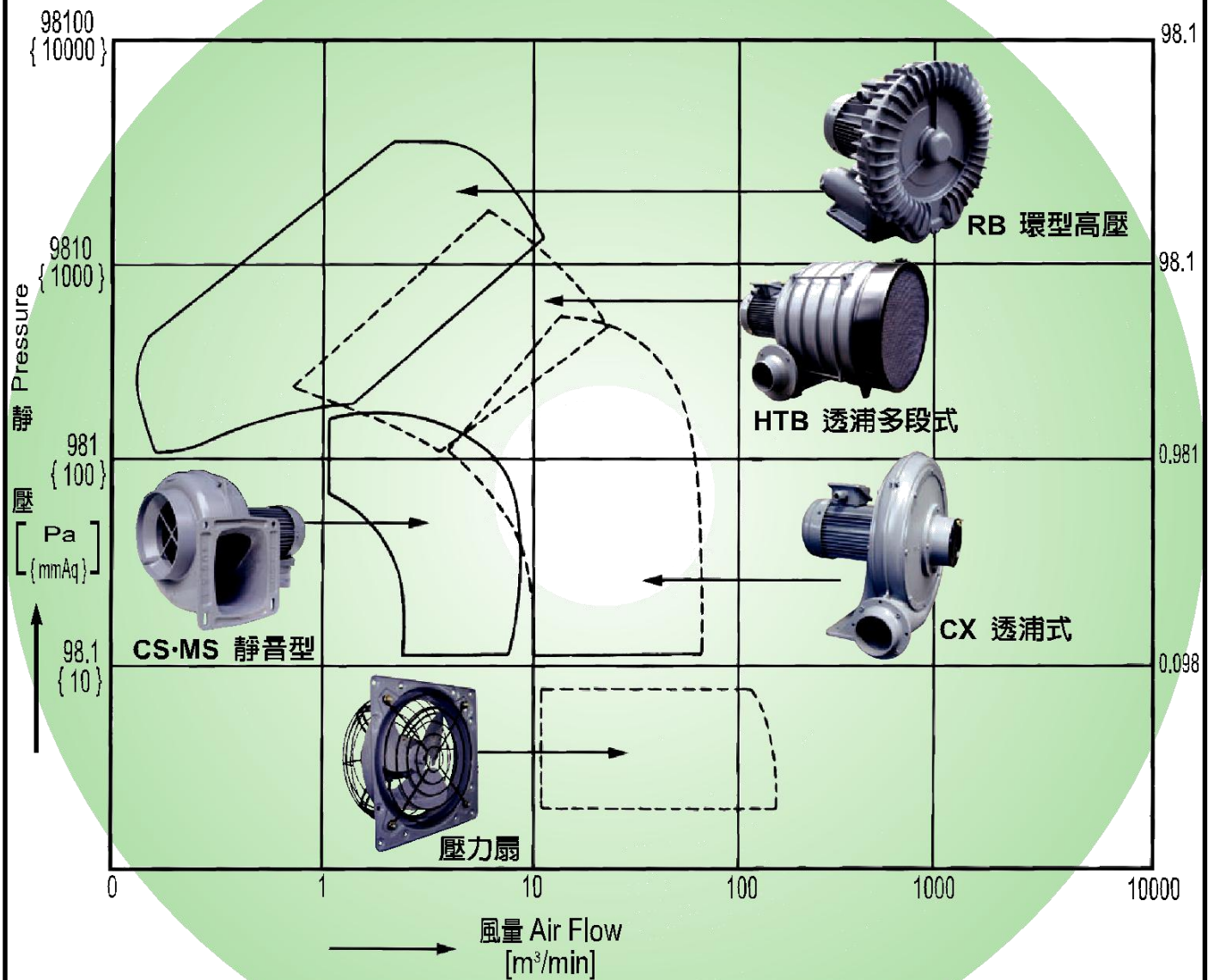
用途：

- 粉粒體輸送
- 紡織纖維集塵
- 裁紙（布）機氣墊
- 污水處理曝氣
- 窯業礦業空氣
- 重油噴燃
- 造紙紙漿脫水
- 無梭織布機專用
- 玻璃工業及冰廠空氣泵
- 遂道工程壓送空氣
- 水產養殖氧氣供給

Applications:

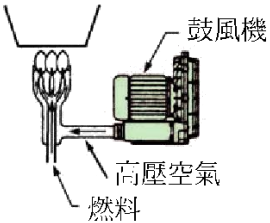
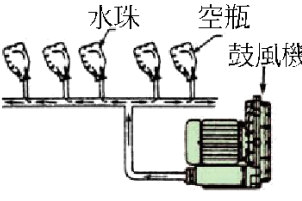
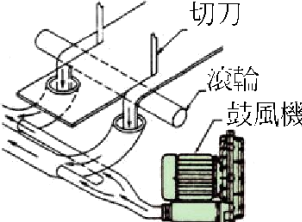
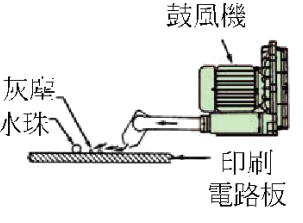
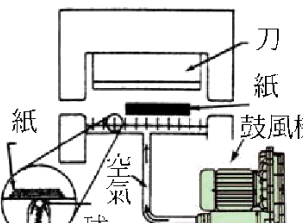
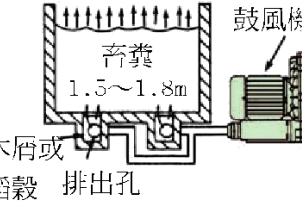

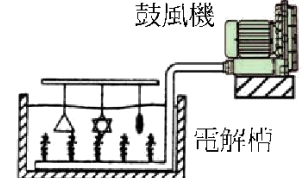
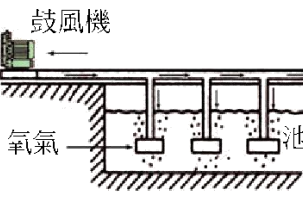
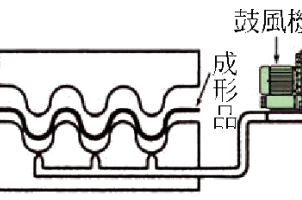
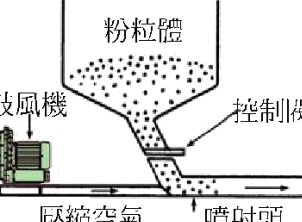
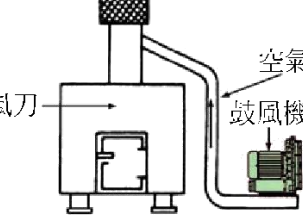
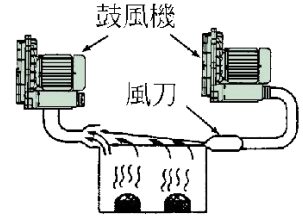
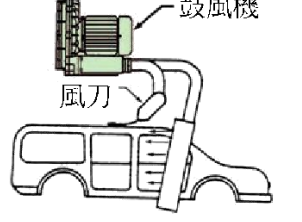
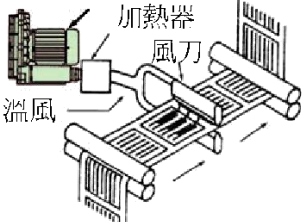
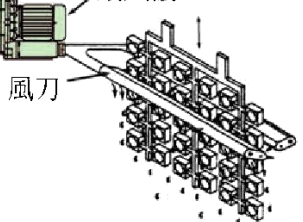
- Grain elevators
- Textile fiber collections
- Paper industry
- Sewage treatments
- Cement manufacturing
- Diesel burning
- Pulp industry
- Glass manufacturing
- Ice manufacturing
- Tunnel ventilation
- Fishery industry

性能比較圖

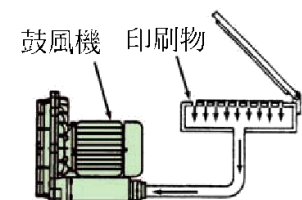
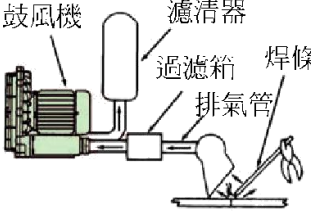
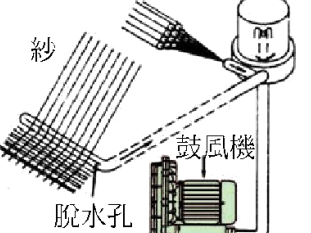
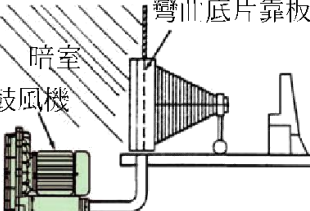
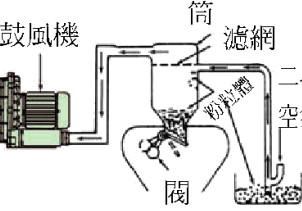
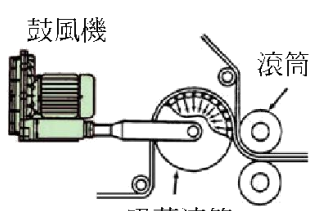
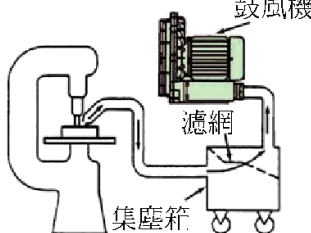
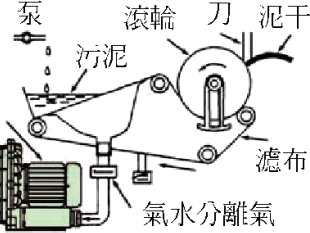
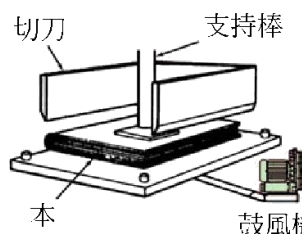
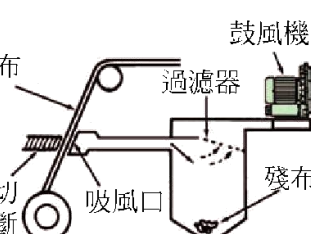
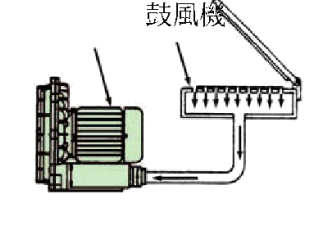
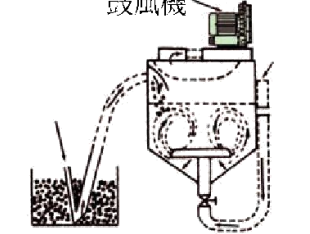
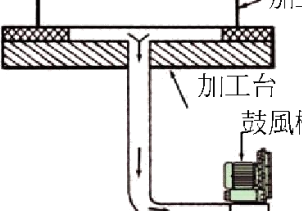
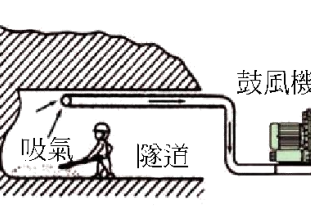
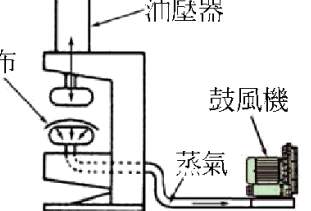
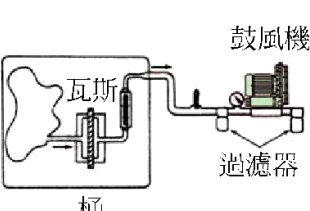


請選擇最適用的機型

送風用 Applications Drawing

<p>瓦斯重油噴燃 Fuel Injection</p>  <p>高風壓 (2,000mmAq) 及足夠的風量，將減輕您對空氣壓縮機的依賴。</p>	<p>洗瓶機吹乾 Bottle Washing Machine</p>  <p>飲料空瓶水洗後將水滴吹乾，適用於食品業。</p>	<p>紙布條吹送 Ribbon Collecting</p>  <p>塑膠、布、紙等裁邊後廢屑自動收集。</p>	<p>乾燥用空氣刀 Cleaning Nozzle</p>  <p>電子業電路基板可利用送風機來吹除微小灰塵及水滴。</p>
<p>裁斷機氣墊 Cutting Air-Pad</p>  <p>增加浮力，容易移動。</p>	<p>畜糞發酵曝氣 Feeding Air</p>  <p>以高壓空氣吹入畜糞槽，增加畜糞與空氣接觸面積。亦適於公害污水處理。</p>	<p>傳票輸送 Documents Conveying</p>  <p>以空氣為動力輸送文件既快速又確實。</p>	<p>電解液攪拌 Electrolysis Mixer</p>  <p>利用空氣來攪動電解槽，使電解質流通，並把附著水泡驅除令電鍍迅速，效果均勻。(出口孔以4mm最佳)</p>
<p>養殖池的氧氣補給 Breeding Pool</p>  <p>水中之氧氣補給用。</p>	<p>沖床機 Presses Machine</p>  <p>便利取出沖壓後之成形品。</p>	<p>粉粒體輸送 Powder & Granule Conveying</p>  <p>粉體粒體等之原料的空氣運送。</p>	<p>焚化爐 An Incinerator</p>  <p>空氣的助燃與廢氣之排出。</p>
<p>煙氣吹吸 Smog Inhale or Blow</p>  <p>讓散出之煙氣迅速排出，以免造成污染。</p>	<p>洗車吹乾 Car Washing</p>  <p>洗車機洗後之水份吹乾。</p>	<p>印刷強制乾燥 Printed Dryer</p>  <p>使印色快速乾燥。</p>	<p>洗淨後吹乾 Blow the Universe After Clean</p>  <p>洗淨後之水份或油氣迅速脫離物品。</p>

吸風用 Applications Drawing

網版印刷機吸著 Printing Suck	焊接廢氣吸取 Welding Smog Collecting	織布機吸絲 Textile Machinery Suck	照相製版 Photograph
 <p>利用吸著壓力固定，以利印刷作業。</p>	 <p>焊接時產生之煙氣和塵埃，可以真空方式排到他處，保障操作員健康。</p>	 <p>吸除水分及固定線頭，提高產品的品質及效率。</p>	 <p>利用真空吸力來保持底片，使之平坦，適合照相製版工業。</p>
粉粒體輸送 Raw Material Conveying	印刷吸著 Printing Stabilizing	工業吸塵 Duct Collecting	真空脫水 Vacuum Dehydration
 <p>粒狀物體，如塑膠原料等，可利用氣壓（吹）或真空吸力來完成輸送任務。</p>	 <p>真空吸著印刷或紙山成形移送。</p>	 <p>工廠中經常有廢屑殘留機台上，可以上圖方式清潔之。</p>	 <p>紙漿脫水，污泥脫水，布匹脫水等。</p>
製書本機 Book Packager	殘布處理 Wasted Ribbon Collecting	牛乳紙盒充填機 Milk Box Feeding	豆腐機械 Soybean Curd Machine
 <p>切斷時之書本吸著保持。</p>	 <p>布匹切斷之處理。</p>	 <p>牛乳盒充填之真空吸引利用。</p>	 <p>吸引大豆輸送，至洗淨槽洗淨使用。</p>
加工物的保持 Processing Stabilizing	工事現場 Smog Sucking inner Tunnel	燙布機 Ironing Machine	瓦斯分解 Gas Decomposing
 <p>木板、塑膠等非磁性物體之固定用。</p>	 <p>隧道與狹小工事現場產生粉塵有毒瓦斯之局部除去。</p>	 <p>燙布時將其蒸氣吸出排放用。</p>	 <p>使用於瓦斯分解裝置的吸引。</p>

環形鼓風機 Ring Blower (Side Channel Blower)

用途：應用再生理論所設計的環形鼓風機，單段風葉經小風量增速，產生高風壓特性。

---- 免保養！無油氣！壽命長！

Futural: Ring Blowers are designed with practical regenerative theory
Require no maintenance ! No oily odor ! eternity life!

at 60HZ

型 式 Type	相 數 Phase	功 率 Power (KW)	電 壓 Voltage (V)	電 流 Current (A)	最大使用靜壓 吸入/吐出 Vacuum/Pressure (Rated) (kpa)	最大風量 (吐出) Air Flow (max) (m ³ /min)	出 入 口 徑 In/Out Let	噪 音 Noise Level (dB)	重 量 Weight (Kg)
RB-200S	1~	0.2	220	1.5	7/9	0.6	PF 1"	65	7
RB-400S	1~	0.4	220	2.5	10/12	1.3	PF 1 $\frac{1}{4}$ "	68	12
RB-750S	1~	0.75	220	5	14/15	2.5	PF 1 $\frac{1}{2}$ "	72	15
RB-022S	1~	1.5	220	9	14/15	4.5	PF 2"	75	25
RB-200	3~	0.2	220	1.1	7/9	0.6	PF 1"	65	7
RB-400	3~	0.4	220	1.9	10/12	1.3	PF 1 $\frac{1}{4}$ "	68	12
RB-750	3~	0.75	220	3	14/15	2.5	PF 1 $\frac{1}{2}$ "	72	14
RB-022	3~	1.5	220	5.5	14/15	4.5	PF 2"	75	23
RB-023	3~	2.2	220	8	21/25	4.5	PF 2"	75	25
RB-033	3~	2.2	220	8	15/15	6	PF 2"	78	30
RB-035	3~	3.7	220	13	28/30	6	PF 2"	78	39
RB-055	3~	3.7	220	13	22/21	7.5	PF 2"	80	45
RB-057	3~	5.5	220	19	30/34	7.5	PF 2"	80	52
RB-077	3~	5.5	220	19	28/25	11	PF 2 $\frac{1}{2}$ "	85	59
RB-0710	3~	7.5	220	26	30/38	11	PF 2 $\frac{1}{2}$ "	85	68
RB-110	3~	7.5	220	26	19/19	12	PF 2 $\frac{1}{2}$ "	85	70
RB-1515	3~	11	220	35	15/15	24	PF 4"	105	120
RB-1520	3~	15	220	47	20/20	24	PF 4"	105	130
RB-1525	3~	19	220	58	25/25	24	PF 4"	105	140

附註：由於技術上的需要本公司保留設計與變更的權利。

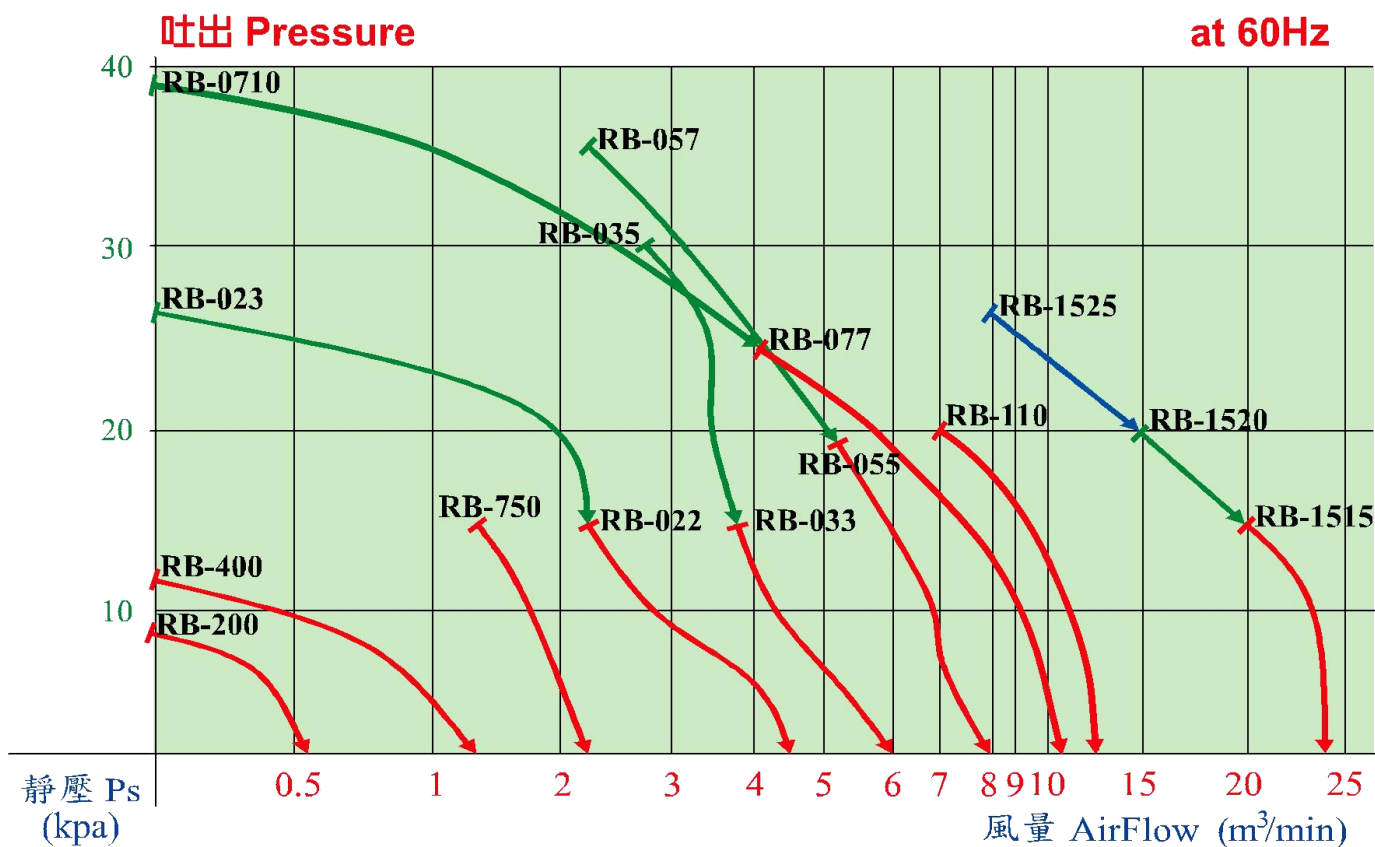
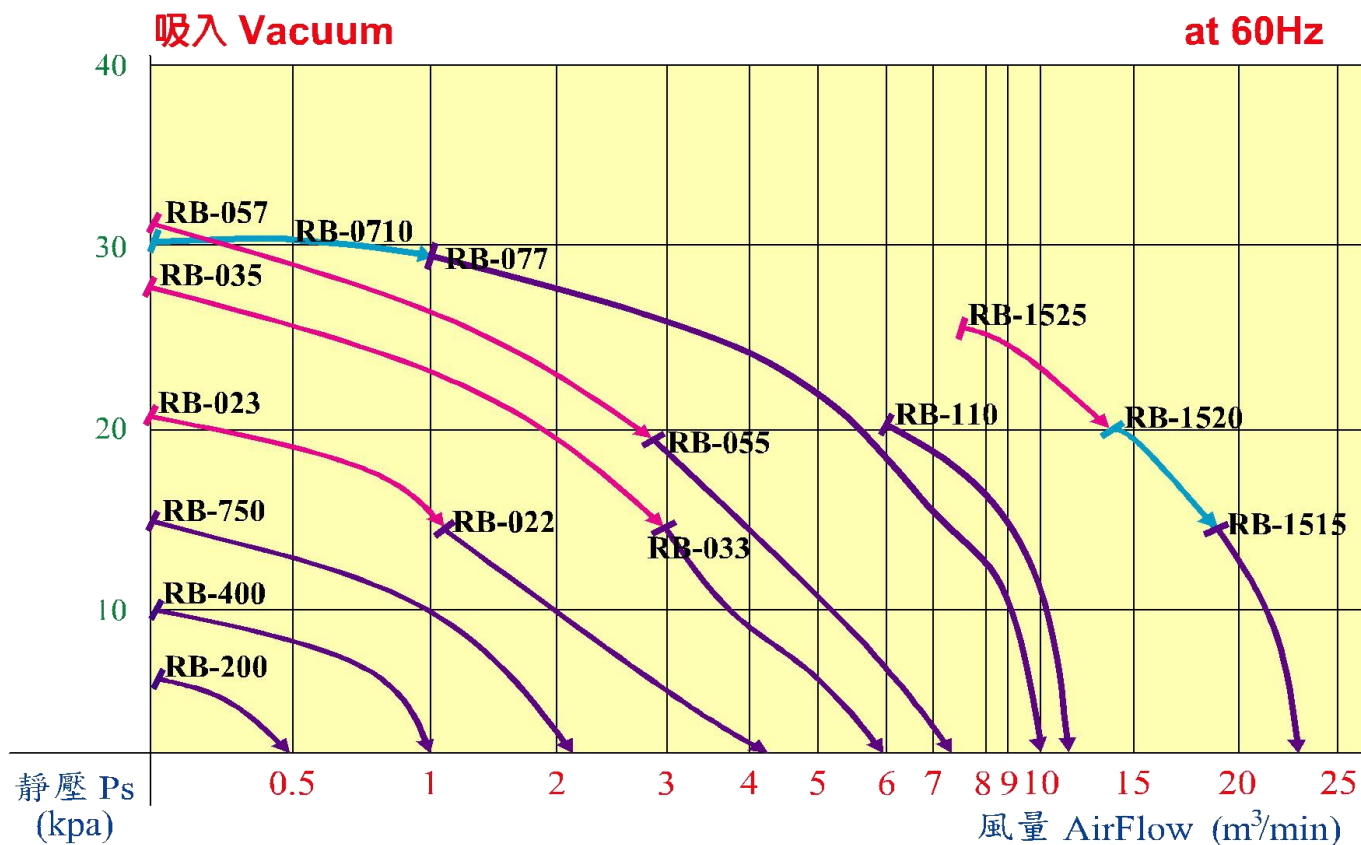
A policy of continuous improvement is followed, and the right to alter any published data without notice is reserved.

允許最大氣溫和氣體進口溫度為40°C。

the maximent permissible temperature and the gas temperature at the inlet is 40°C.

環形鼓風機 Ring Blower (Side Channel Blower)

RB型性能表 Characteristic curves



環形鼓風機 Ring Blower (Side Channel Blower)

用途：應用再生理論所設計的環形鼓風機，單段風葉經小風量增速，產生高風壓特性。

---- 免保養！無油氣！壽命長！

Futural: Ring Blowers are designed with practical regenerative theory
Require no maintenance ! No oily odor ! eternity life!

at 50HZ

型 式 Type	相 數 Phase	功 率 Power (KW)	電 壓 Voltage (V)	電 流 Current (A)	最大使用靜壓 吸入/吐出 Vacuum/Pressure (Rated) (kpa)	最大風量 (吐出) Air Flow (max) (m ³ /min)	出 入 口 徑 In/Out Let	噪 音 Noise Level (dB)	重 量 Weight (Kg)
RB-200S	1~	0.2	220	1.5	6/7	0.6	PF 1"	60	7
RB-400S	1~	0.4	220	2.5	9/10	1.3	PF 1 $\frac{1}{4}$ "	65	12
RB-750S	1~	0.75	220	5	13/16	2	PF 1 $\frac{1}{2}$ "	67	15
RB-022S	1~	1.5	220	9	17/18	3.2	PF 2"	70	25
RB-200	3~	0.2	380	0.9	6/7	0.6	PF 1"	60	7
RB-400	3~	0.4	380	1.3	9/10	1.3	PF 1 $\frac{1}{4}$ "	65	12
RB-750	3~	0.75	380	1.8	13/16	2	PF 1 $\frac{1}{2}$ "	67	14
RB-022	3~	1.5	380	3.5	17/18	3.2	PF 2"	70	23
RB-023	3~	2.2	380	5	18/21	3.2	PF 2"	70	25
RB-033	3~	2.2	380	5	20/20	5	PF 2"	70	30
RB-035	3~	3.7	380	7.5	22/29	5	PF 2"	70	39
RB-055	3~	3.7	380	7.5	22/24	7	PF 2"	77	45
RB-057	3~	5.5	380	11.5	26/30	7	PF 2"	80	52
RB-077	3~	5.5	380	11.5	23/30	10	PF 2 $\frac{1}{2}$ "	80	61
RB-0710	3~	7.5	380	15.5	22/30	9	PF 2 $\frac{1}{2}$ "	80	68
RB-110	3~	7.5	380	15.5	21/23	10	PF 2 $\frac{1}{2}$ "	80	70
RB-1515	3~	11	380	21	20/18	19	PF 4"	90	120
RB-1520	3~	15	380	28	26/24	19	PF 4"	90	130
RB-1525	3~	19	380	35	32/30	19	PF 4"	90	140

附註：由於技術上的需要本公司保留設計與變更的權利。

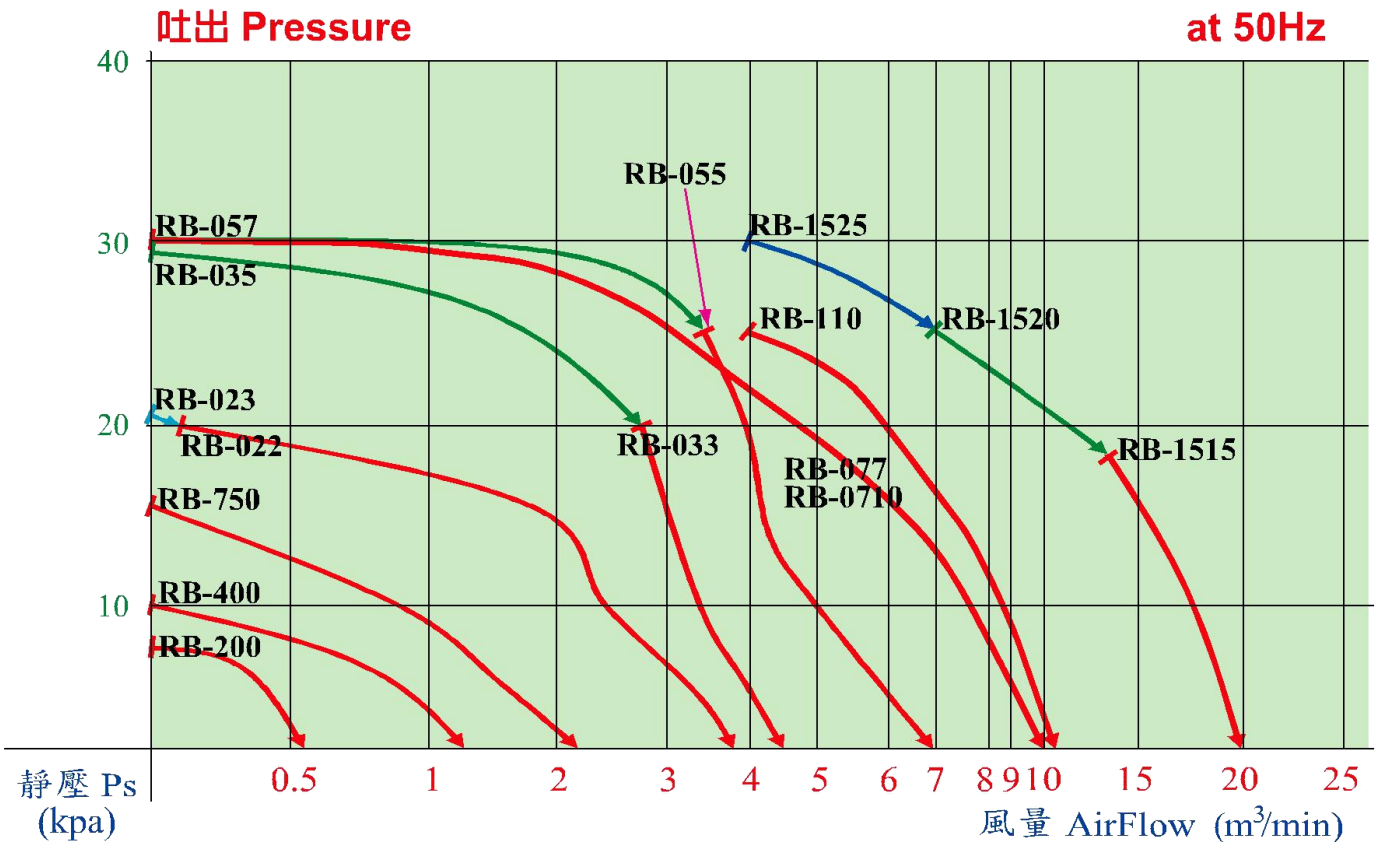
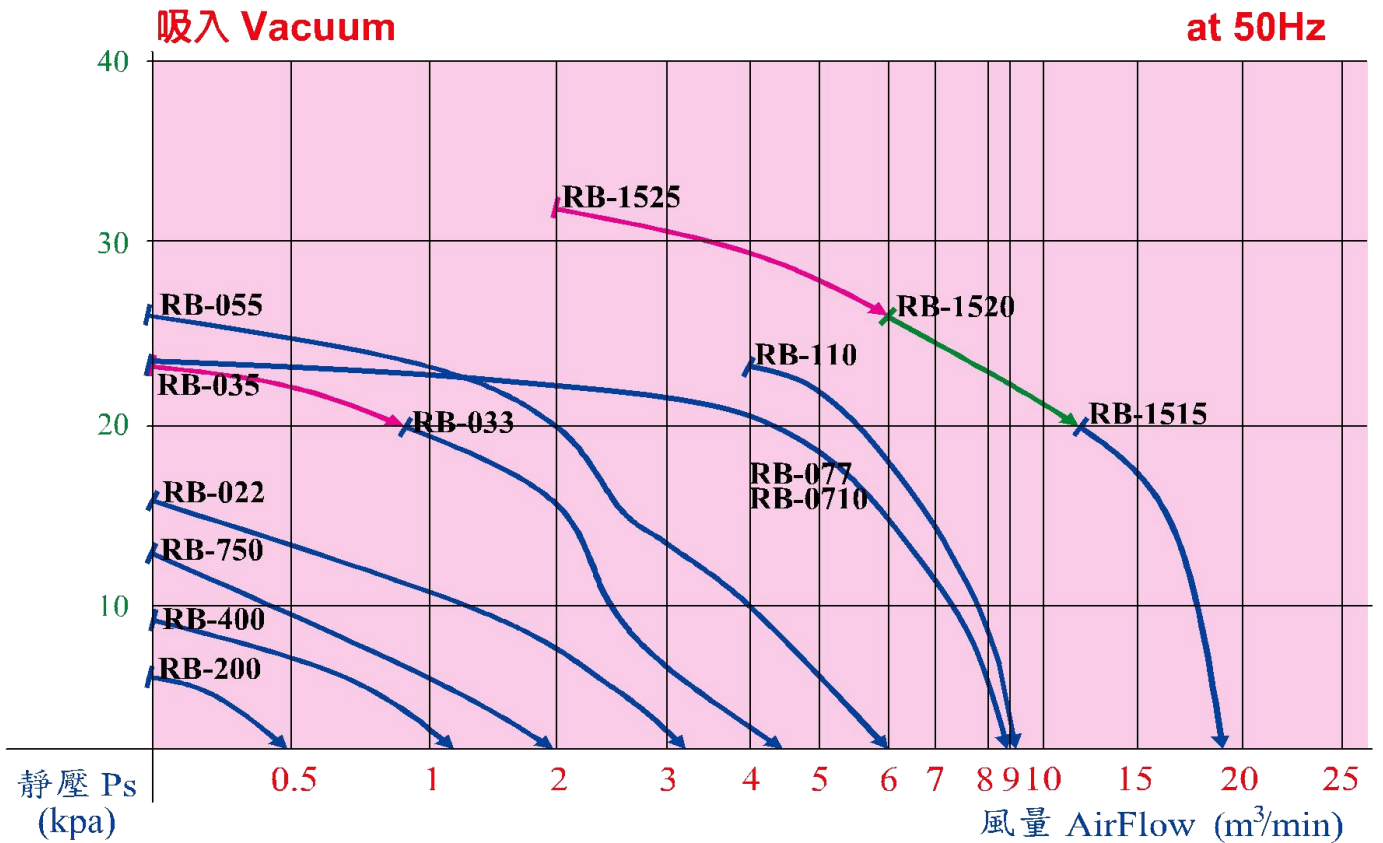
A policy of continuous improvement is followed, and the right to alter any published data without notice is reserved.

允許最大氣溫和氣體進口溫度為40°C。

the maximent permissible temperature and the gas temperature at the inlet is 40°C.

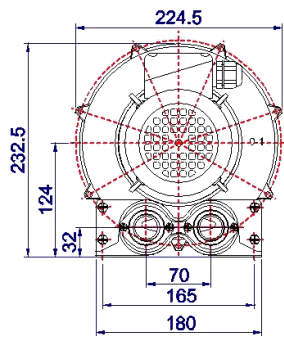
環形鼓風機 Ring Blower (Side Channel Blower)

RB型性能表 Characteristic curves

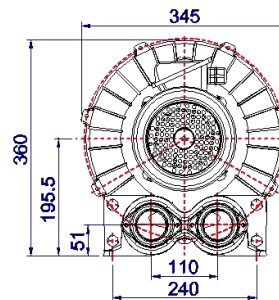
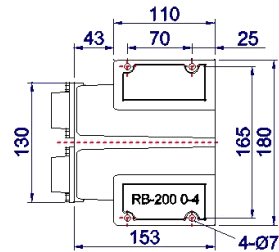
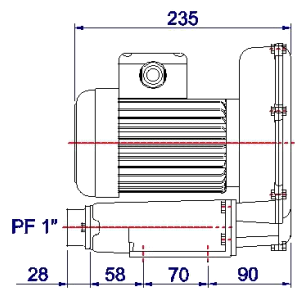


環形鼓風機 Ring Blower (Side Channel Blower)

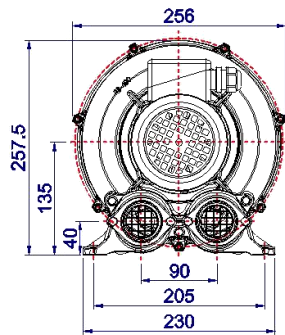
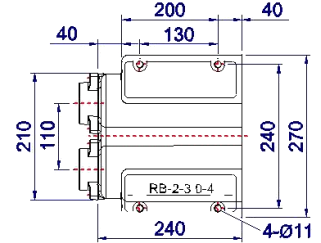
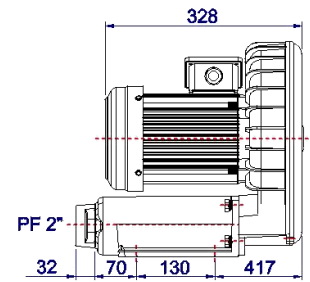
尺寸圖 Dimension (mm)



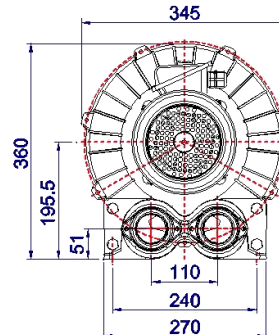
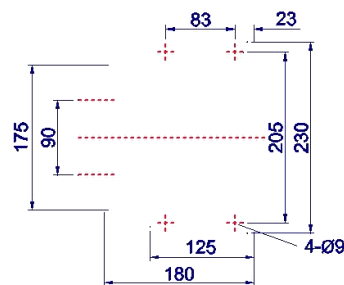
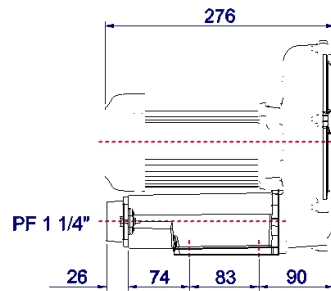
RB-200



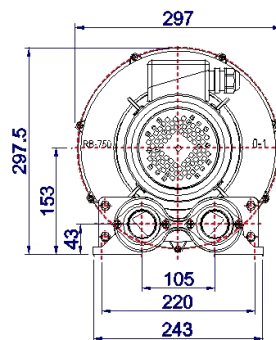
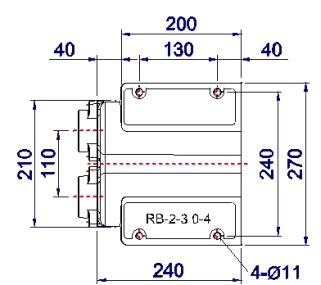
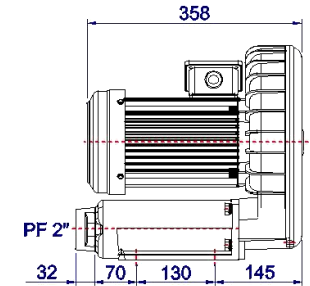
RB-022



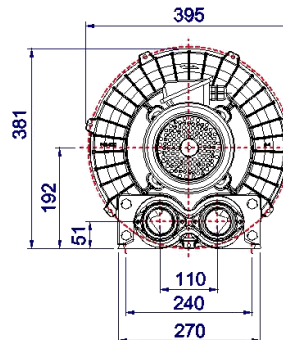
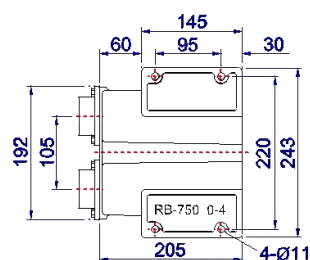
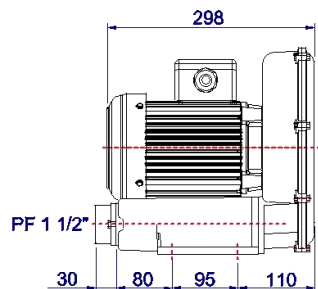
RB-400



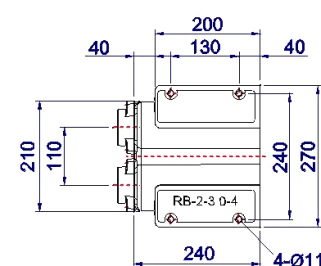
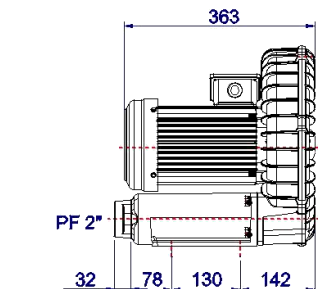
RB-023



RB-750



RB-033





附加配件 APPURTENANCES

過濾器 Air Filter

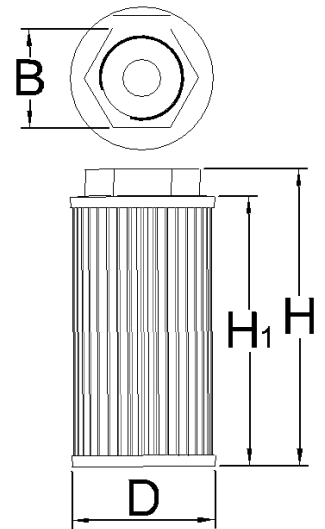
過濾器是用於RB型風機的入口處，當風機只用吹氣時，請加裝本裝置以確保風機之安全。

此過濾器為圓筒型不鏽鋼網組成，通氣度高，不影響風機的流量，且裝卸容易、易清洗、免保養。

AIR FILTER

- Air filter is the inlet model and provides for all RB series applications.
- All air filters are cylindraceous and made by stainless net steel.
- Increase ventilation without act on blowers operation.
- All air filters can be safely cleaned and no maintenance required.
- For increase blowers service life, air filter is recommended to append.

Model	Length	Weight	Inner Dia	Outer Dia	Flow	Pressure	Material
MF-08-P	1"	70	187	175	50	0.2	100
MF-10-P	1 ¼"	70	187	175	50	0.2	100
MF-12-P	1 ½"	100	225	205	69	0.5	150
MF-16-P	2"	100	225	205	72	0.5	150
MF-20-P	2 ½"	130	270	245	90	0.7	150
MF-24	3"	159	353	326	105	1.18	100
MF-32	4"	208	353	338	147	2.95	100



外用消音器 Silencer

外用消音器是一種消音效果非常好的裝置，當環境因素需要更低的噪音時，請多加利用。

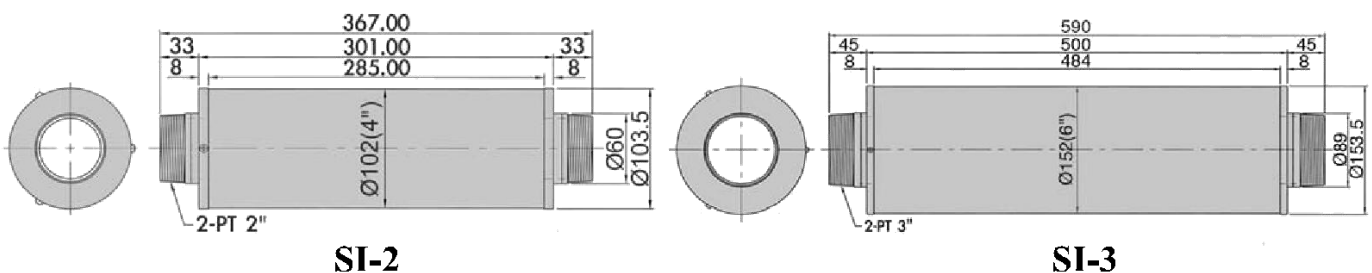
此裝置可用於風機的出入口端或管線的末端，使用上非常方便。

SILENCER

- Good performance of noise reduction.
- Suitable for application at inlet, outlet and circuit end.



Model	Length	Compatible Models
SI-2	2"	RB-750 • RB-022 • RB-033 • RB-055
SI-3	3"	RB-077 • RB-0710 • RB-110



ALUMINUM AIR KNIFE

產品特點：本風刀是由全風公司所研發，以鋁合金擠壓一體成型，雨滴型整流結構，風壓風量均勻，壓損低，構造單純，材質堅固，組裝容易。可調式出風口設計，出風口的氣流是單方向吹出設計，滿足多元化生產需要。

應用：吹除工件表面的水份或油份、冷卻降溫、熱風吹乾等....。



型號	AK50-300-1	AK50-400-1	AK50-600-1	AK50-900-1 AK50-900-2	AK50-1200-1 AK50-1200-2
入風口徑 / 數量	50mm X 1	50mm X 1	50mm X 1	50mm X 1 50mm X 2	50mm X 1 50mm X 2
長度	300mm	400mm	600mm	900mm	1200mm
出風口寬度	0.5~2mm	0.5~2mm	0.5~2mm	0.5~2mm	0.5~2mm

適用鼓風機概算

所需風量(m^3/min)=風刀長度(m)X出風口寬度(m)X希望風速(m/sec)X60X(1.2~1.5)

所需靜壓(kPa)

所需靜壓	10kPa 以上	5~15kPa	3~8kPa	2~5kPa
------	----------	---------	--------	--------

P.S. 上述資料須在(使用點)上計算

單向入口

