

# 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.

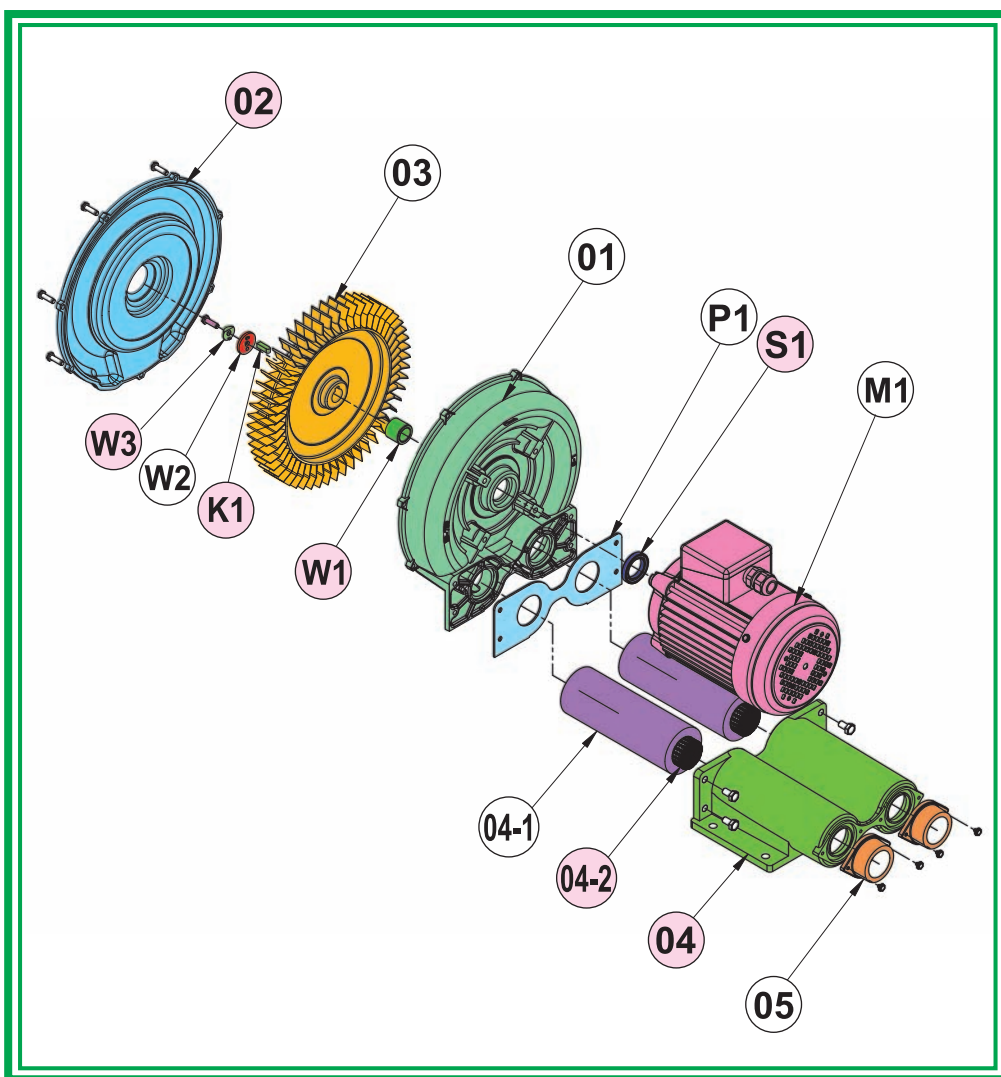
### Stable airflow

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)

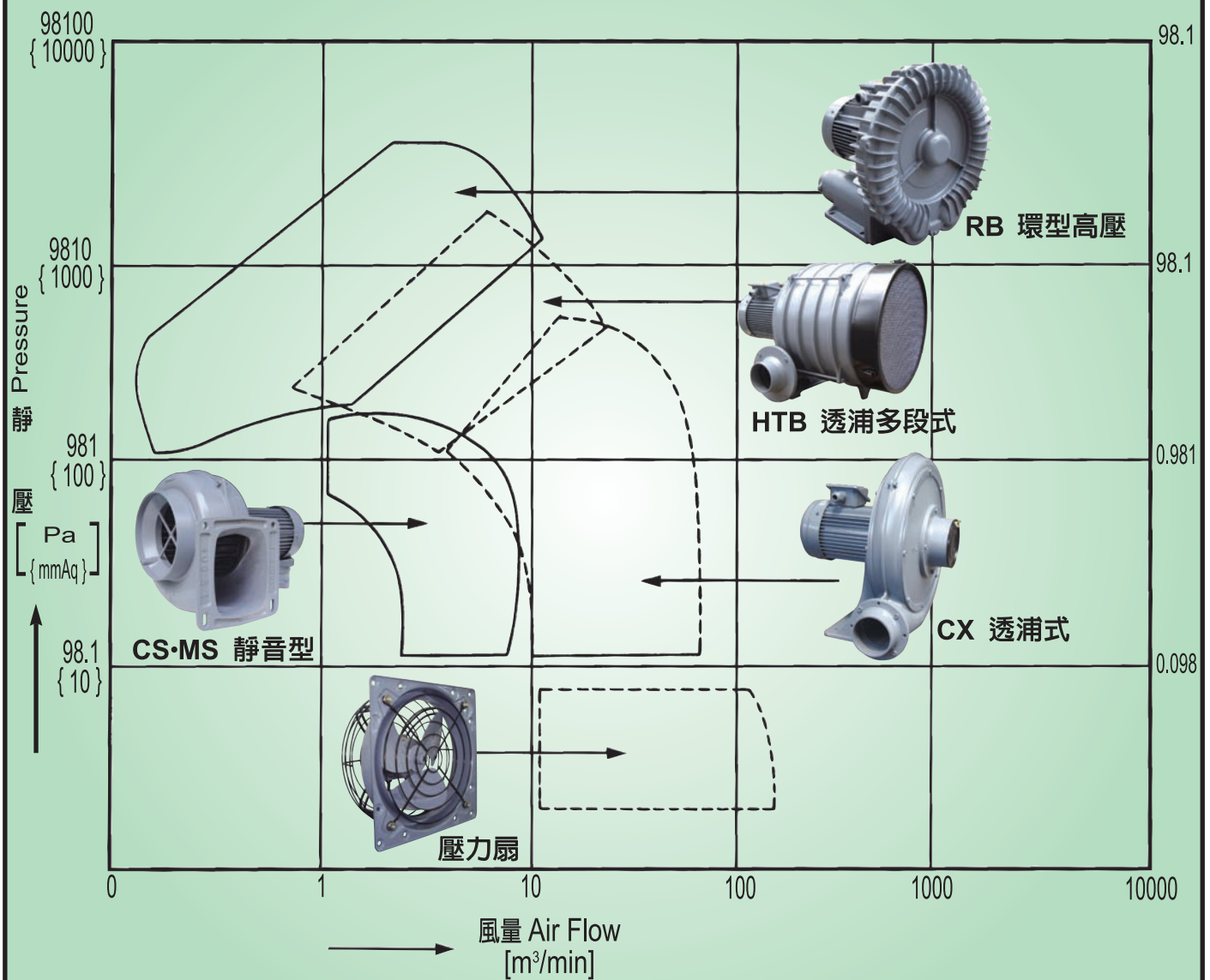
## 用途：

- 粉粒體輸送
- 紡織纖維集塵
- 裁紙（布）機氣墊
- 污水處理瀑氣
- 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

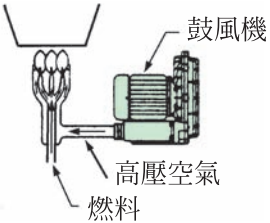
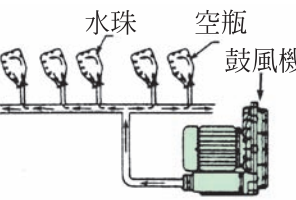
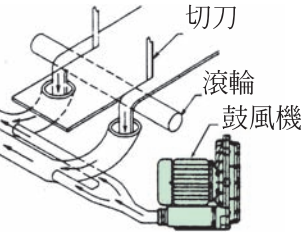
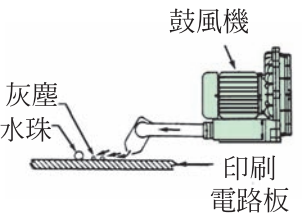
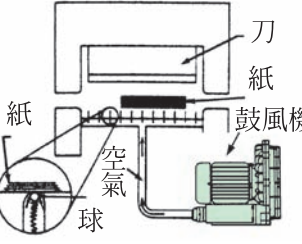
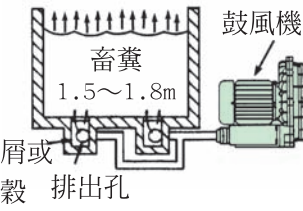
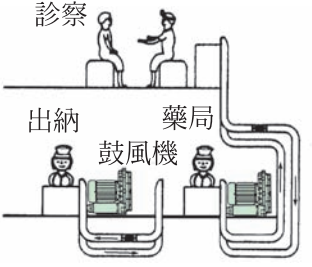
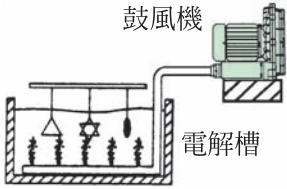
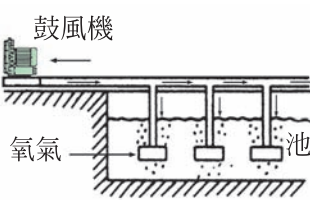
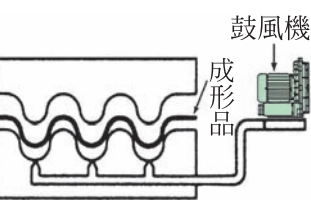
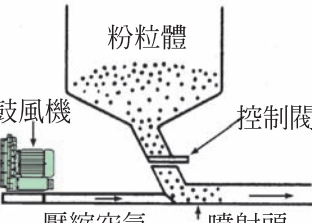
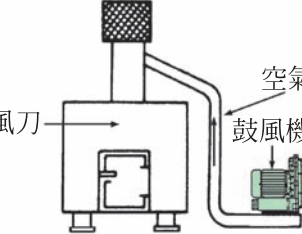
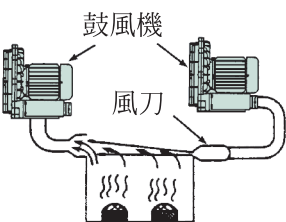
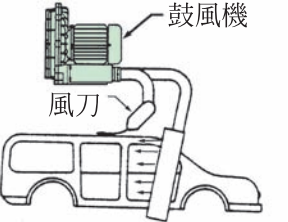
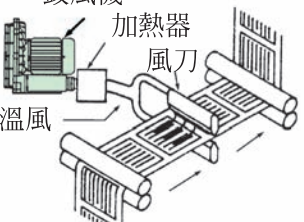
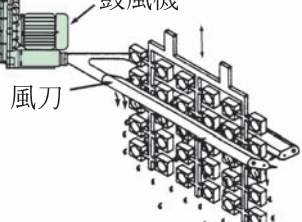
## 性能比較圖



請選擇最適用的機型

應用例

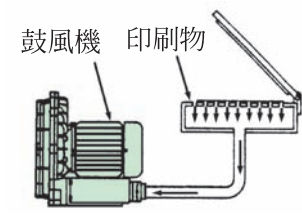
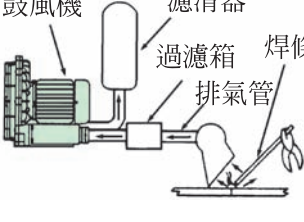
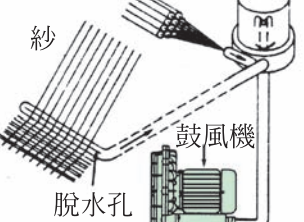
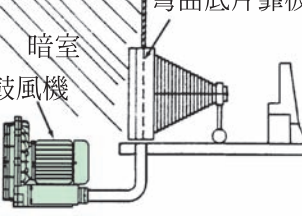
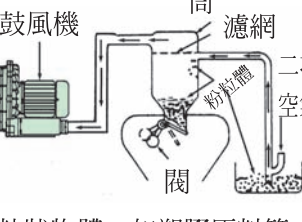
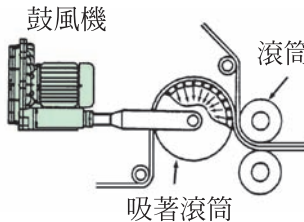
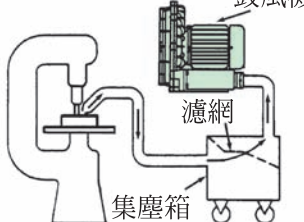
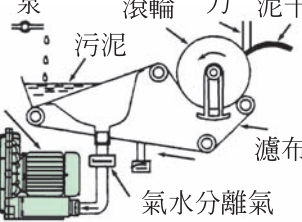
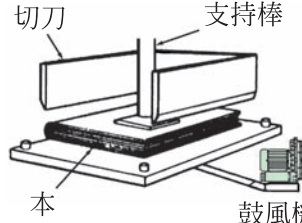
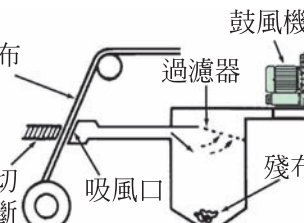
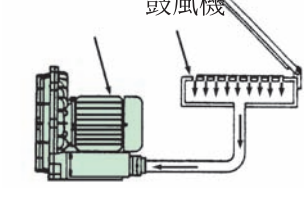
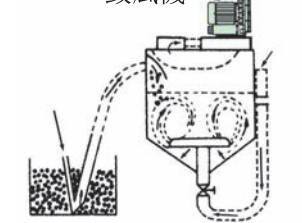
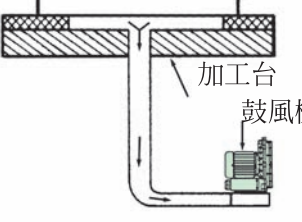
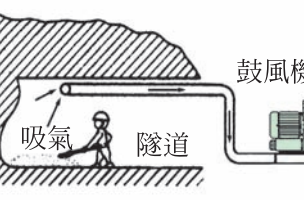
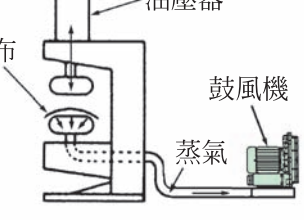
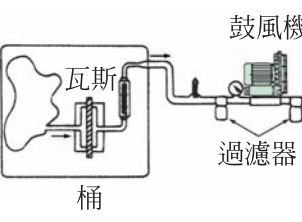
送風用 Applications Drawing

<p><b>瓦斯重油噴燃</b> 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><b>洗瓶機吹乾</b> 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><b>紙布條吹送</b> Ribbon Collecting</p>  <p>塑膠、布、紙等裁邊後廢屑自動收集。</p>	<p><b>乾燥用空氣刀</b> 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><b>裁斷機氣墊</b> Cutting Air-Pad</p>  <p>增加浮力，容易移動。</p>	<p><b>畜糞發酵曝氣</b> 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><b>傳票輸送</b> Documents Conveying</p>  <p>以空氣為動力輸送文件既快速又確實。</p>	<p><b>電解液攪拌</b> Electrolysis Mixer</p>  <p>利用空氣來攪動電解槽，使電解質流通，並把附著水泡驅開令電鍍迅速，效果均勻。(出口孔以4mm最佳)</p>
<p><b>養殖池的氧氣補給</b> Breeding Pool</p>  <p>水中之氧氣補給用。</p>	<p><b>沖床機</b> Presses Machine</p>  <p>便利取出沖壓後之成形品。</p>	<p><b>粉粒體輸送</b> Powder &amp; Granule Conveying</p>  <p>粉體粒體等之原料的空氣運送。</p>	<p><b>焚化爐</b> An Incinerator</p>  <p>空氣的助燃與廢氣之排出。</p>
<p><b>煙氣吹吸</b> Smog Inhale or Blow</p>  <p>讓散出之煙氣迅速排出，以免造成污染。</p>	<p><b>洗車吹乾</b> Car Washing</p>  <p>洗車機洗後之水份吹乾。</p>	<p><b>印刷強制乾燥</b> Printed Dryer</p>  <p>使印色快速乾燥。</p>	<p><b>洗淨後吹乾</b> Blow the Universe After Clean</p>  <p>洗淨後之水份或油氣迅速脫離物品。</p>



應用例

吸風用 Applications Drawing

<p>網版印刷機吸著 Printing Suck</p>	<p>焊接廢氣吸取 Welding Smog Collecting</p>	<p>織布機吸絲 Textile Machinery Suck</p>	<p>照相製版 Photograph</p>
 <p>鼓風機 印刷物</p> <p>利用吸著壓力固定，以利印刷作業。</p>	 <p>鼓風機 濾清器 過濾箱 焊條 排氣管</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>紗 脫水孔 鼓風機</p> <p>吸除水分及固定線頭，提高產品的品質及效率。</p>	 <p>彎曲底片靠板 暗室 鼓風機</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>
<p>粉粒體輸送 Raw Material Conveying</p>	<p>印刷吸著 Printing Stabilizing</p>	<p>工業吸塵 Duct Collecting</p>	<p>真空脫水 Vacuum Dehydration</p>
 <p>鼓風機 筒 濾網 粉粒體 二次空氣 閥</p> <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>鼓風機 滾筒 吸著滾筒</p> <p>真空吸著印刷或紙巾成形移送。</p>	 <p>鼓風機 濾網 集塵箱</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>泵 滾輪 刀 泥干 污泥 濾布 氣水分離氣</p> <p>紙漿脫水，污泥脫水，布匹脫水等。</p>
<p>製書本機 Book Packager</p>	<p>殘布處理 Wasted Ribbon Collecting</p>	<p>牛乳紙盒充填機 Milk Box Feeding</p>	<p>豆腐機械 Soybean Curd Machine</p>
 <p>切刀 支持棒 本 鼓風機</p> <p>切斷時之書本吸著保持。</p>	 <p>布 鼓風機 過濾器 殘布 吸風口</p> <p>布匹切斷之處理。</p>	 <p>鼓風機</p> <p>牛乳盒充填之真空吸引利用。</p>	 <p>鼓風機</p> <p>吸引大豆輸送，至洗淨槽洗淨使用。</p>
<p>加工物的保持 Processing Stabilizing</p>	<p>工事現場 Smog Sucking inner Tunnel</p>	<p>燙布機 Ironing Machine</p>	<p>瓦斯分解 Gas Decomposing</p>
 <p>加工 加工台 鼓風機</p> <p>木板、塑膠等非磁性物體之固定用。</p>	 <p>鼓風機 吸氣 隧道</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>油壓器 布 鼓風機 蒸氣</p> <p>燙布時將其蒸氣吸出排放用。</p>	 <p>鼓風機 瓦斯 桶 過濾器</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 <sup>3</sup> /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 1/4"	68	12
RB-750S	1~	0.75	220	5	14/15	2.5	PF 1 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 1/4"	68	12
RB-750	3~	0.75	220	3	14/15	2.5	PF 1 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 1/2"	85	59
RB-0710	3~	7.5	220	26	30/38	11	PF 2 1/2"	85	68
RB-110	3~	7.5	220	26	19/19	12	PF 2 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.

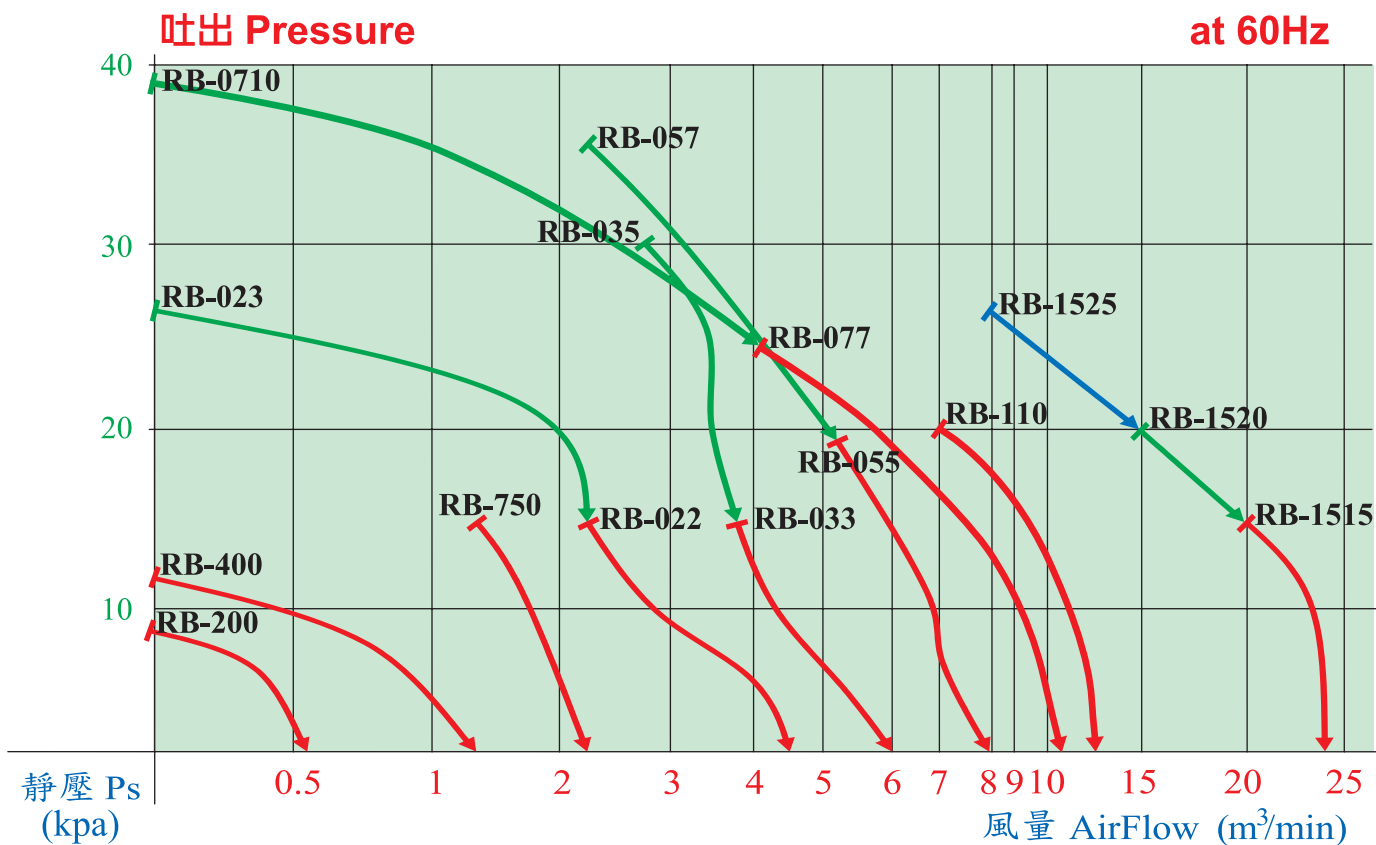
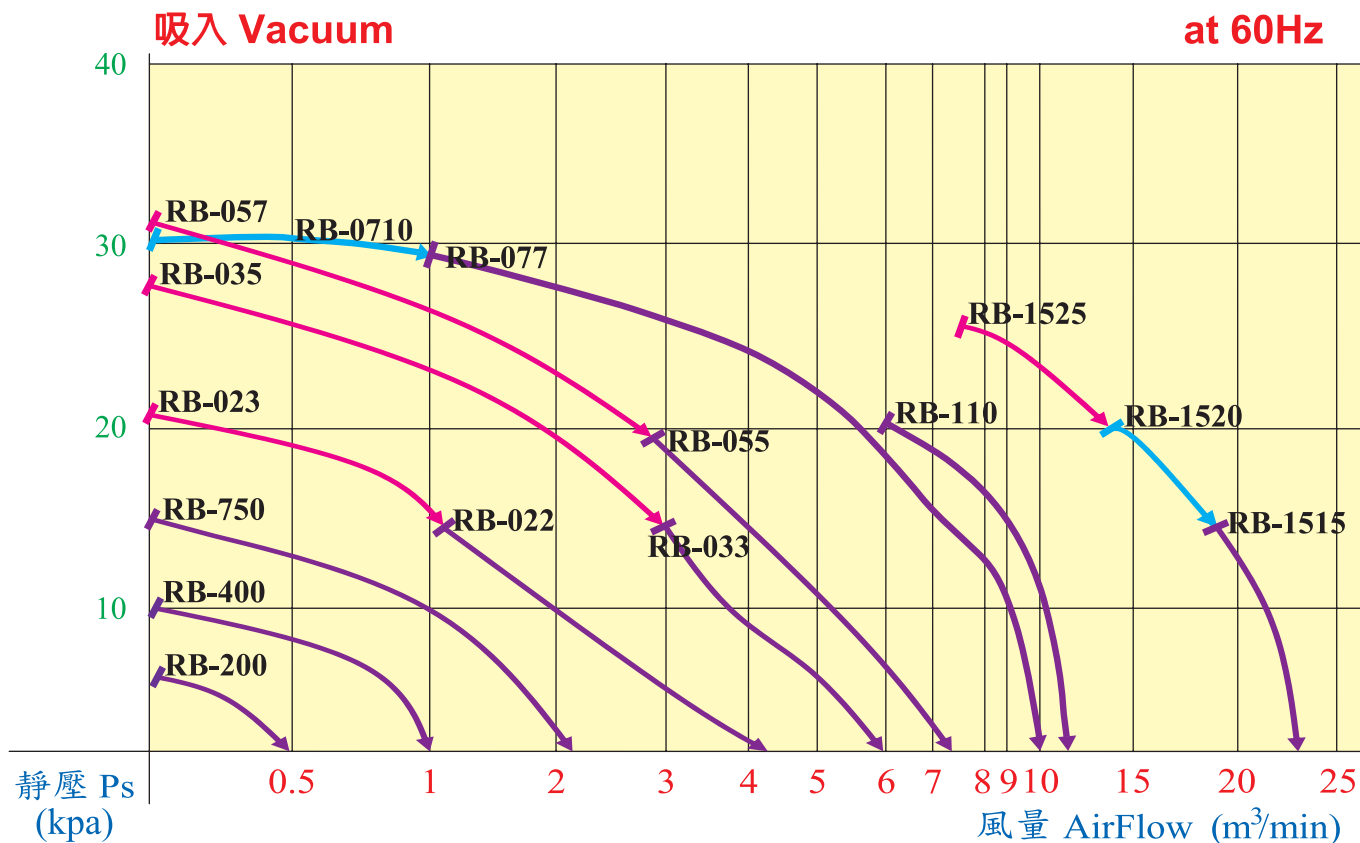
允許最大氣溫和氣體進口溫度為40°C。

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)

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---- 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 <sup>3</sup> /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 1/4"	65	12
RB-750S	1~	0.75	220	5	13/16	2	PF 1 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 1/4"	65	12
RB-750	3~	0.75	380	1.8	13/16	2	PF 1 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 1/2"	80	61
RB-0710	3~	7.5	380	15.5	22/30	9	PF 2 1/2"	80	68
RB-110	3~	7.5	380	15.5	21/23	10	PF 2 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.

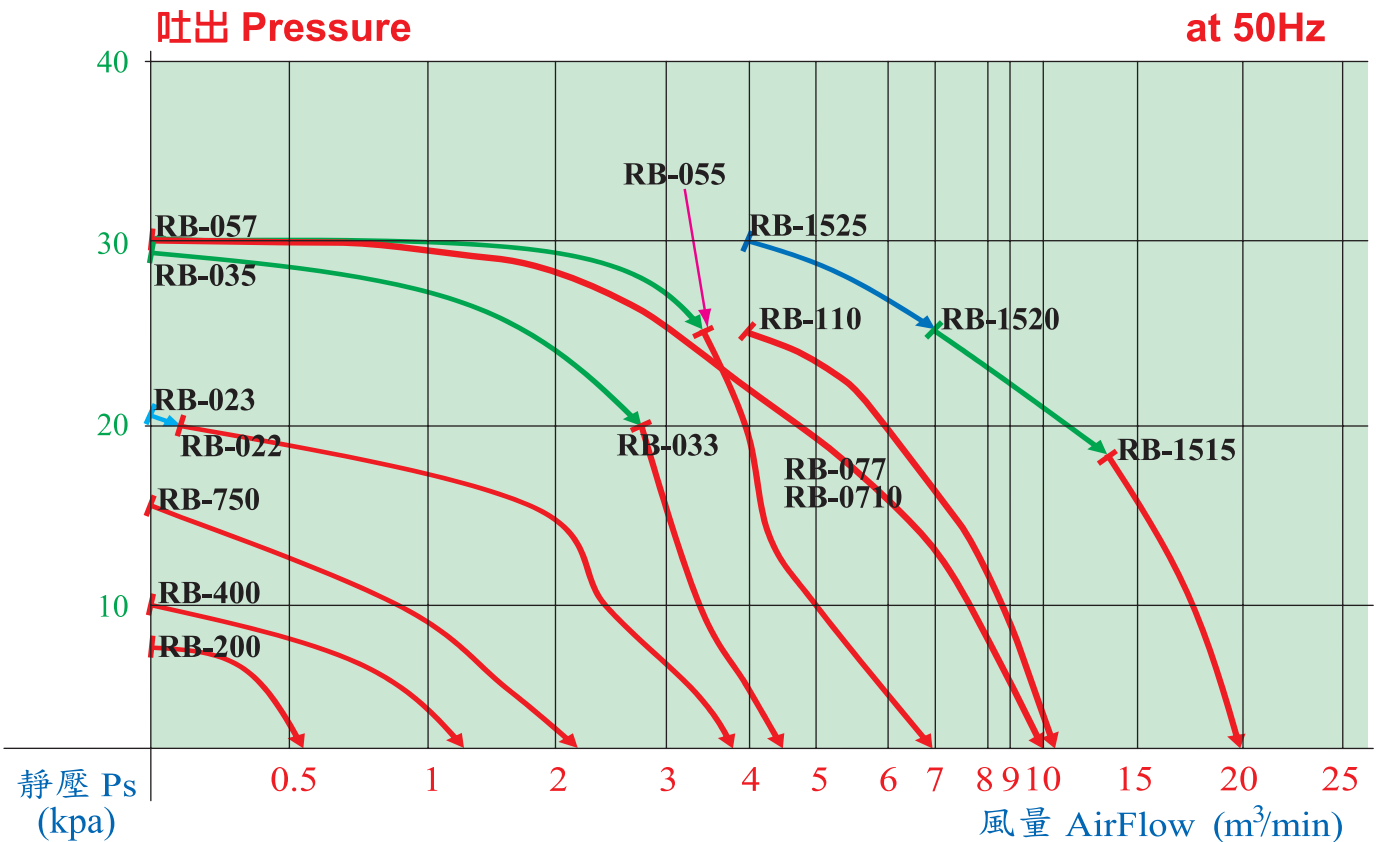
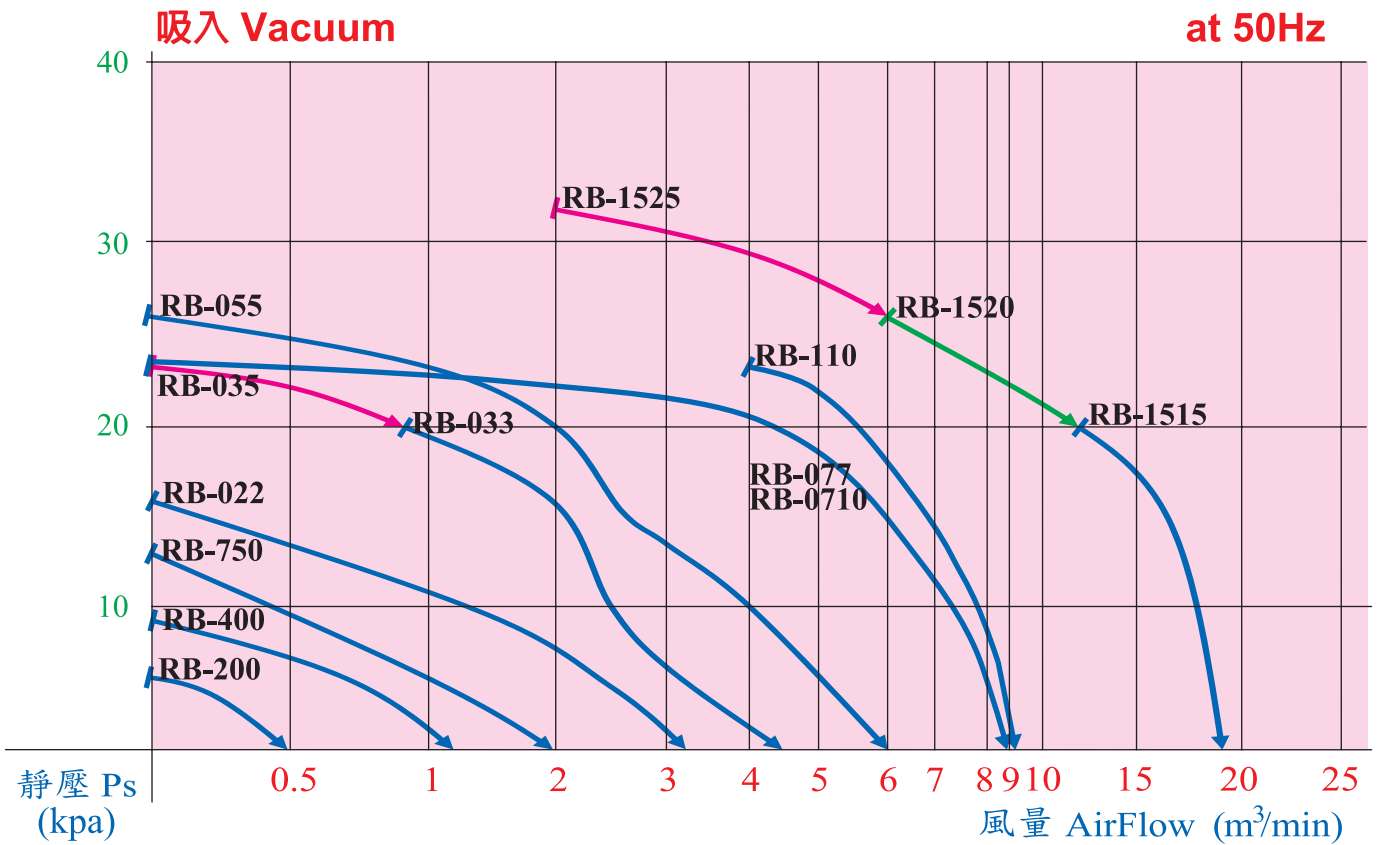
允許最大氣溫和氣體進口溫度為40°C。

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



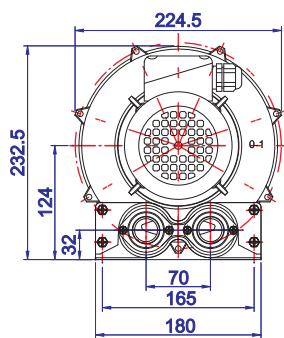
# 環形鼓風機 Ring Blower (Side Channel Blower)

## RB型性能表 Characteristic curves

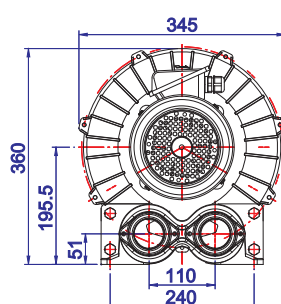
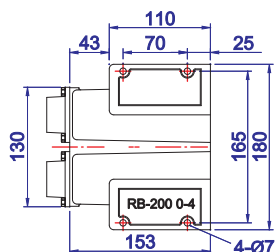
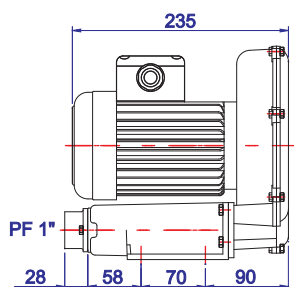


# 環形鼓風機 Ring Blower (Side Channel Blower)

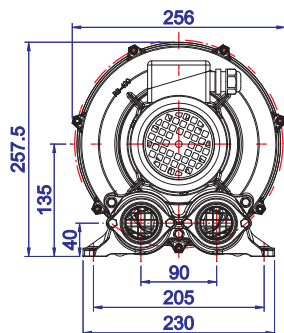
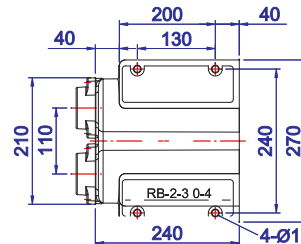
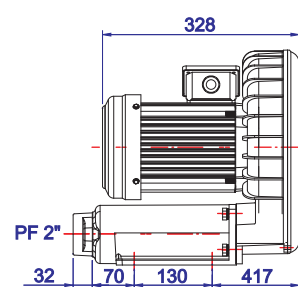
尺寸圖 Dimension (mm)



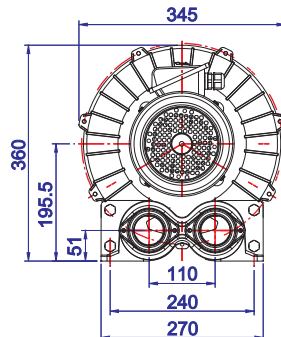
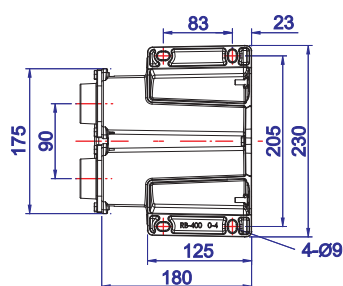
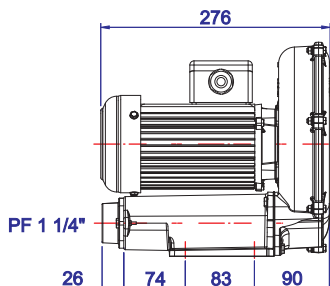
RB-200



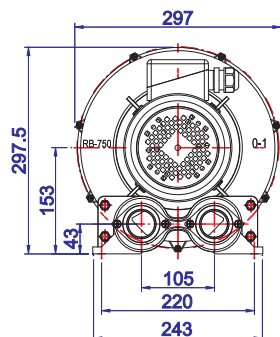
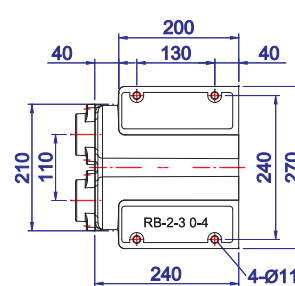
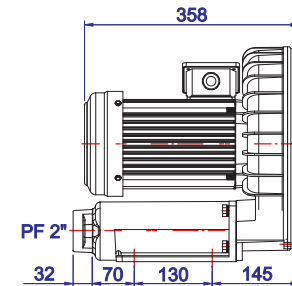
RB-022



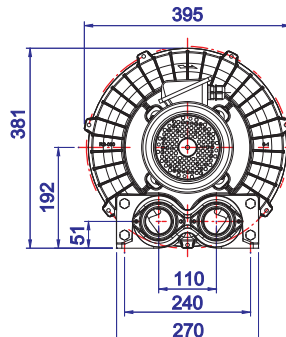
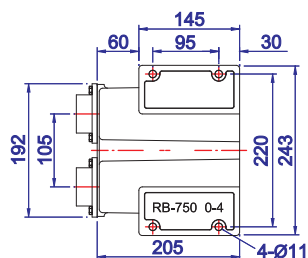
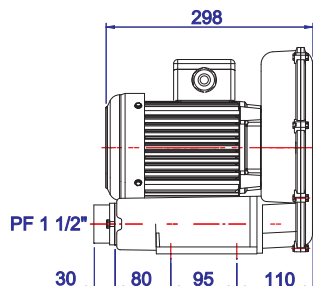
RB-400



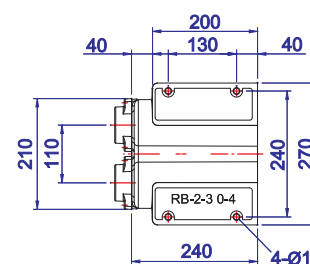
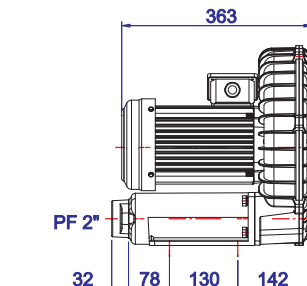
RB-023



RB-750

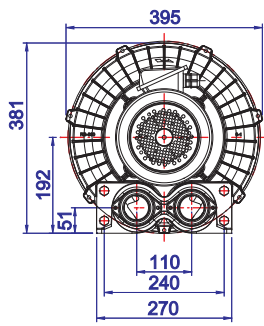


RB-033

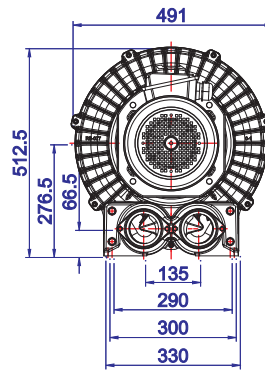
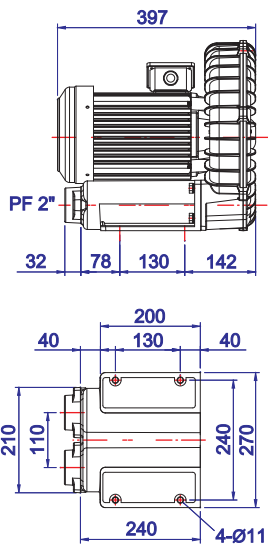


# 環形鼓風機 Ring Blower (Side Channel Blower)

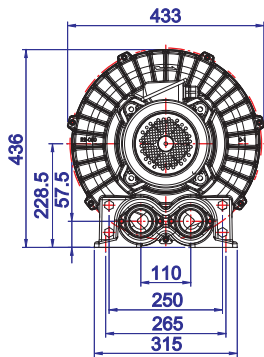
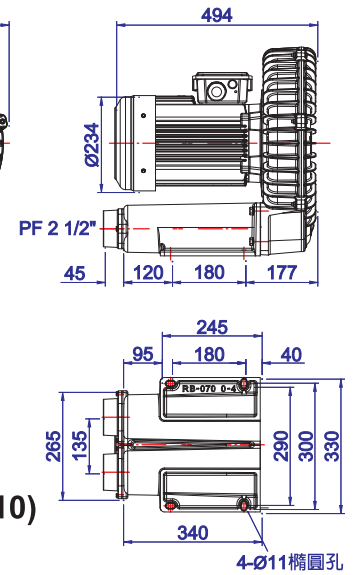
尺寸圖 Dimension (mm)



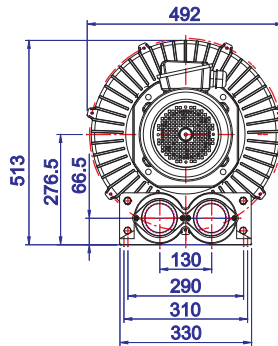
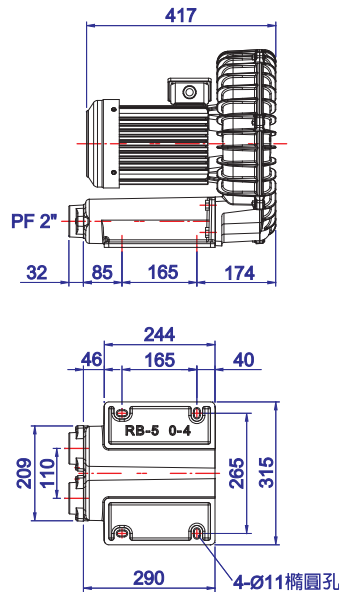
RB-035



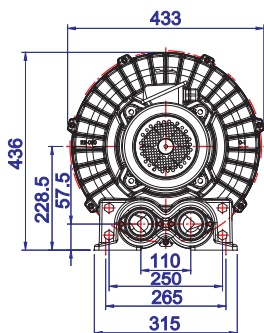
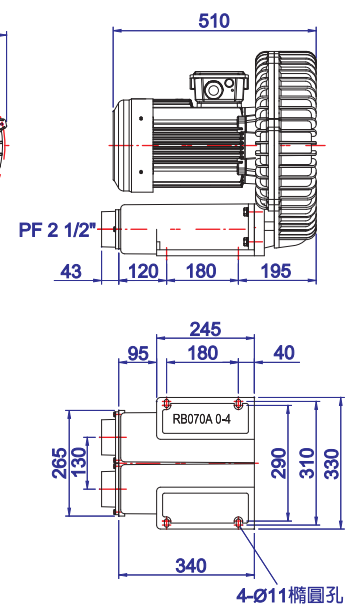
RB-077(RB-0710)



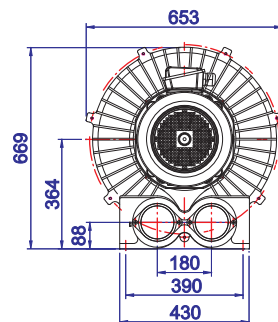
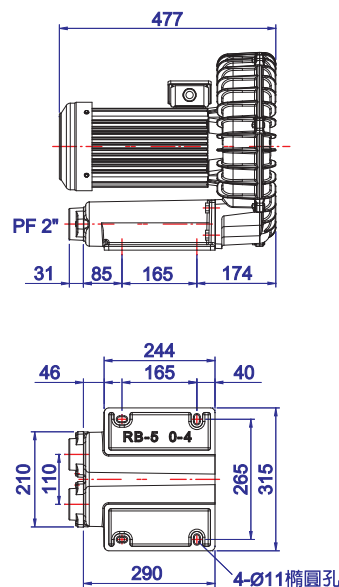
RB-055



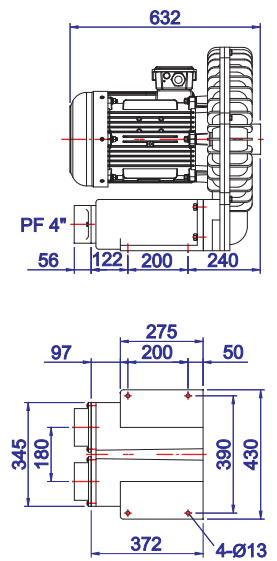
RB-110



RB-057



RB-1515  
RB-1520  
RB-1525





## 附加配件 APPURTENANCES

### 過濾器 Air Filter

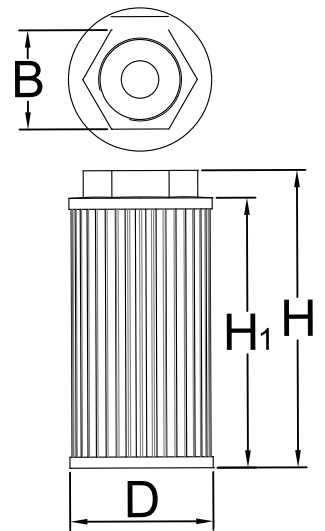
過濾器是用於RB型風機的入口處，當風機只用吹氣時，請加裝本裝置以確保風機之安全。

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.

型式編號 Model	口徑 PT	外徑 D mm	總長度 H mm	濾網長度 H <sub>1</sub> mm	六角對邊 B mm	重量 Weight kg	濾網精度 Filtration Mesh
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。

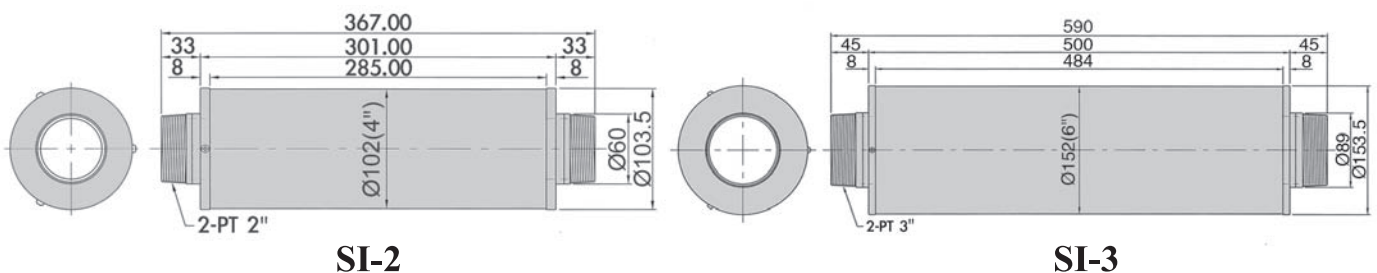
此裝置可用於風機的出入口端或管線的末端，使用上非常方便。

#### SILENCER

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



型式	口徑	適用機種
SI-2	2"	RB-750 • RB-022 • RB-033 • RB-055
SI-3	3"	RB-077 • RB-0710 • RB-110

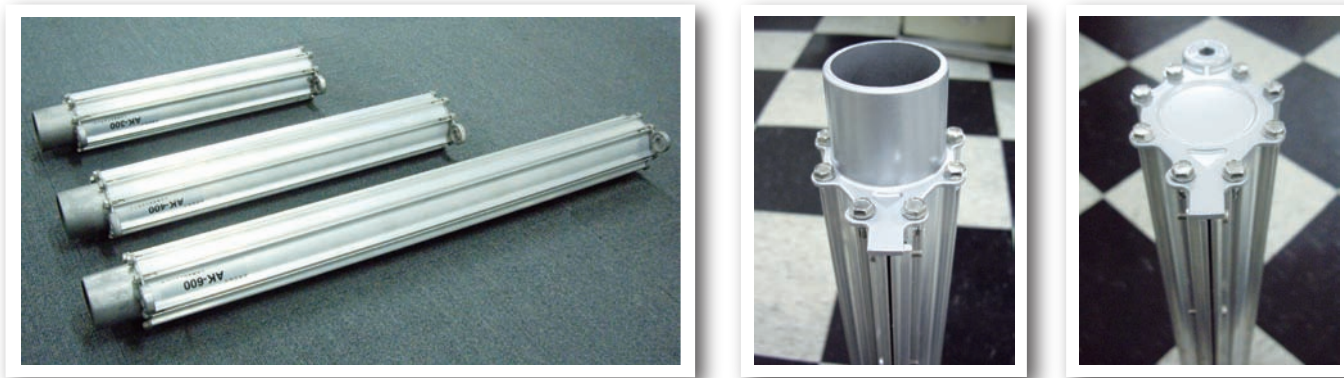


# 鋁合金高效率均壓風刀

## 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

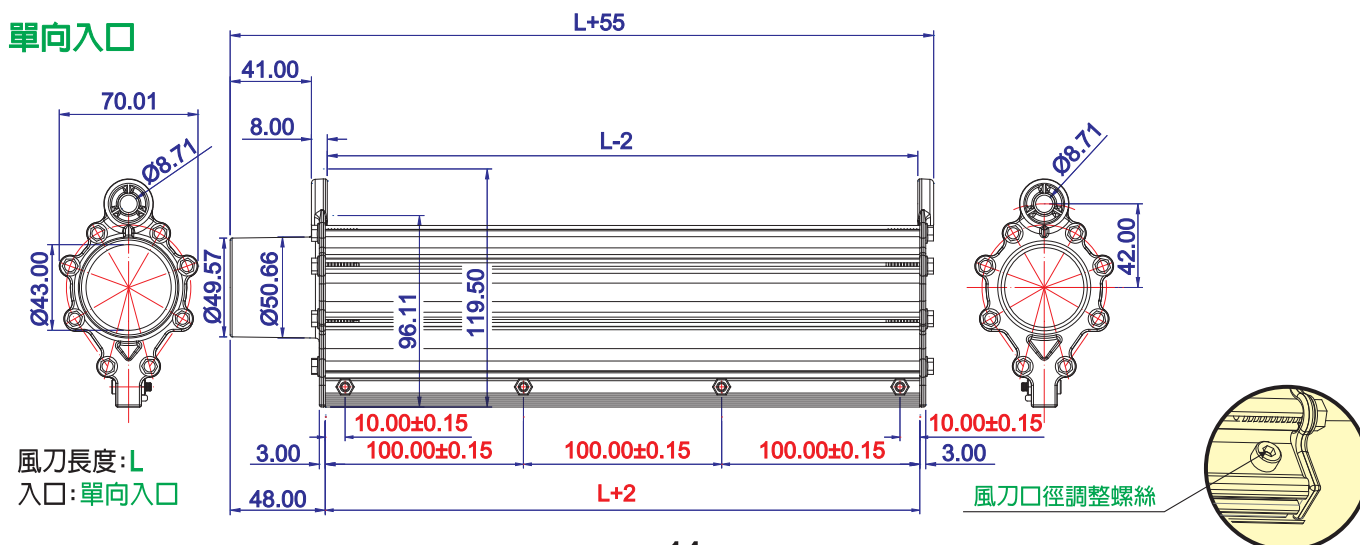
所需風量(m<sup>3</sup>/min)=風刀長度(m)X出風口寬度(m)X希望風速(m/sec)X60X(1.2~1.5)

所需靜壓(kPa)

風刀出口寬度	1mm	2mm	3mm	4mm
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







楊梅營運部  
Chuan Fan Company



楊梅馬達入線廠  
Electric Motor Factory



銅鑼一廠 ~ 鼓風機廠  
Blowers Factory



銅鑼二廠 ~ 高/低壓鑄造與加工廠  
High/Low Pressure Casting Factory



楊梅馬達加工鑄造廠  
Casting & Assembly Factory

批發・製造・買賣 manufacturer, distributor



CHUAN FAN

全風機電股份有限公司  
全風風機股份有限公司  
CHUAN-FAN ELECTRIC CO., LTD.

營運部/楊梅廠：

桃園市楊梅區(幼獅工業區)青年路6-2號(幼獅交流道南下旁)  
No.6-2 Qingnian Rd, Youth Industrial Park, Yangmei Dist,  
Taoyuan City 32661, Taiwan

Tel:886-3-4643788 Fax:886-3-4643771

銅鑼廠：苗栗縣銅鑼鄉銅鑼工業區自強路23號  
Tel:037-980-722 Fax:037-980-725



台北門市：新北市三重區先復路一段28號

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<http://www.chuanfan.com.tw>

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