



罡鼎有限公司
CIRCLE & CYCLE

CBF

離心式箱型風機

Centrifugal Box Fan

A : 宜蘭縣三星鄉集賢一路38 號
T : 03-989-5881
E : 9895881@gmail.com
W: www.ccfan.com.tw



- 設備均取得 AMCA 聲音與空氣動力性能認證標籤
- 方形外殼設計，葉輪無蝸殼，安裝更省時
- 方形設計，多出口方向，銜接便利
- 特製品，消防排煙型，防爆型





Circle & Cycle Ltd. certifies that the CBF series model 300 to 1000 shown herein is licensed to bear the AMCA seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

罡鼎有限公司特此證明，此處所示 CBF 系列目錄中型號從 300 到 1000，獲得了加蓋 AMCA 印章的授權。

所示額定值係根據 AMCA 出版物 211 和 AMCA 出版物 311 所進行測試和程序確定，並符合 AMCA 認證 額定值計畫的要求。

產品特色
Product Features

鋁合金後傾式葉輪
Aluminum Backward Curve Impeller

- 高效區寬廣、不超載
Wide performance range of high efficiency and non-overloading
- 平衡等級均符合ISO 1940以及AMCA 204標準
The balancing grade complies to ISO 1940 and AMCA 204

空氣動力性能設計
Air Performance Design

- 採用 CFD 流場模擬技術優化設計，並反覆驗證
Optimized design through CFD flow field simulation and repeated tests
- 葉片安裝角度優化
Optimized blades mounting angle

無蝸殼結構
No Scroll

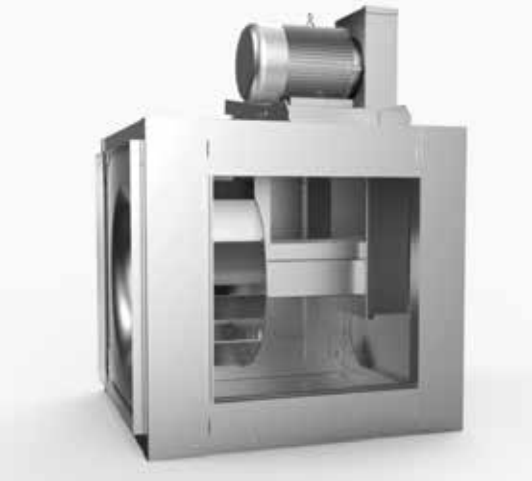
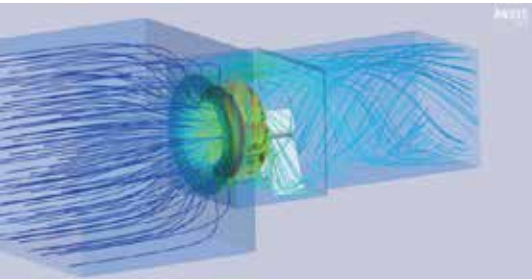
- 空氣直接吸入葉輪加壓，改善氣流組織
Air directly pressurized in wheel and airflow pattern improved
- 直結式更防塵：適用微電子、醫藥食品工業的潔淨室
Direct drive and dust-free: suitable for clean rooms in microelectronics, food and medical industries

解決噪音問題的方案：離心管道形式
Sound Solution: Centrifugal Inline Type

- 與軸流/混流類的本質區別：轉速有效降低 20%–30%
Fundamental difference from axial/mixed flow types: speed reduced
- 聲壓級下降 10–15 分貝
Sound Pressure level reduced by 10-15 dB(A)

方形設計多出口方向
Square Design with Different Discharge Direction Options

- 標配正方形進出風口套接法蘭
Square inlet/outlet flanged sleeve
- 馬達可以在不同位置安裝
Different mounting positions available for the motor
- 多出口方向：設計施工更加靈活方便
Different discharge positions: ease of design and installation



產品技術標準
Product Specifications

第一節：品質標準
離心式管道風機應按照空氣運動與控制協會第 210 和 300 標準進行檢測並通過其認證，每台風機出廠時均應貼有 AMCA 空氣動力特性和聲音的特許認證標籤。

Section 1: Quality Standards
Inline Square Centrifugal Fan shall be tested and certified in accordance with AMCA Standard 210 & 300. AMCA Seal for Sound and Air Performance shall be tagged on each fan before leaving the factory.

第二節：風機類型
風機類型應為管道離心風機，並採用鋁製後傾離心式葉輪。葉輪的導風圈應具有線型曲面,確保空氣能滑順的進入葉輪。每個葉輪均經過動態平衡，達到 AMCA 204 標準 G2.5 平衡等級。

Section 2: Fan Type
The fan shall be centrifugal inline type, with an aluminum backward inclined centrifugal. The wheel cone shall have a curved section to ensure smooth air movement. Each wheel should be subject to static and dynamic balancing tests up to AMCA 204- G2.5 balance quality grade.

第三節：風機外殼
材料：風機外殼應為鍍鋅鋼板材製成，其厚度應足以保證能夠承受驅動機構和馬達的重量。
外型：其外型應基本為方形，配有方形進出口套接法蘭以避免製作方 / 圓轉接頭。殼體設計應允許不同的出口方向。在風機的左右兩側均應設置較大的檢修門，保證無須拆卸風管即可維修或更換馬達。

Section 3: Fan Housing
Material: The fan housing shall be made in cast steel sheet. It shall be thick and strong enough to support the drive mechanism and motor.
Shape: The housing shall be a square one equipped with square flanged sleeves to avoid square/ round connectors. The housing design shall allow different discharge directions. On the left and right sides, there shall be sizable access doors so that motor maintenance and replacement can be performed without the need to remove the air ducts.

第四節：驅動裝置（僅適用於皮帶驅動的型號）
軸：採用中碳鋼S45C，並經研磨及拋光處理，並且連同葉輪進行整體動平衡。
皮帶輪：皮帶輪的尺寸應當按照驅動功率的 150% 選型，皮帶輪應當是鑄鐵的，鍵連接到軸上。皮帶輪應當配有退拔形式的軸套進行固定以便於拆卸。
軸承：應採用兩個軸承支撐風機軸，以避免振動直接施加於馬達之上。在型錄的最大轉速下，軸承壽命為(L-10)40,000小時。軸承類型應是永久密封的，可潤滑的帶座型滾珠金屬軸承。
支撐：驅動裝置應當使用厚的經過粉末塗裝防腐的鋼板支撐。皮帶鬆緊應透過可調節馬達底座進行，其設計應確保風機軸與馬達軸的平行度。

Section 4: Drive Mechanism (For belt drive type only)
Shaft: Manufactured from S45C medium carbon steel and finished by grinding and polishing.The shaft shall also be subject to balancing tests together with the wheel.
Pulley: Fan pulleys shall be sized for a minimum of 150% of the driving power. Pulleys shall be cast iron, keyed and securely attached to the wheel and motor shaft. Conical type bushings shall be equipped for easy removal of the pulleys.
Bearing: Two bearings shall be used to support the shaft to avoid vibrations directly coming onto the motor. The bearing L10 rating life shall be 80, 000 hours at the maximum operating speed specified in the catalog. The bearing shall be of permanently sealed type and metal pedestal ball bearing that can be lubricated.
Drive Support: Drive mechanism shall be supported by thick steel sheet finished with powder coatings to avoid corrosion. The belt tension can be adjusted through the adjusting bolt at the motor base. The design shall make sure the fan shaft and motor shaft is always parallel.

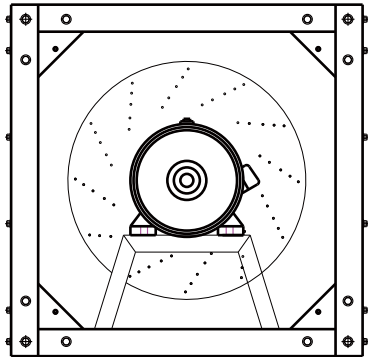
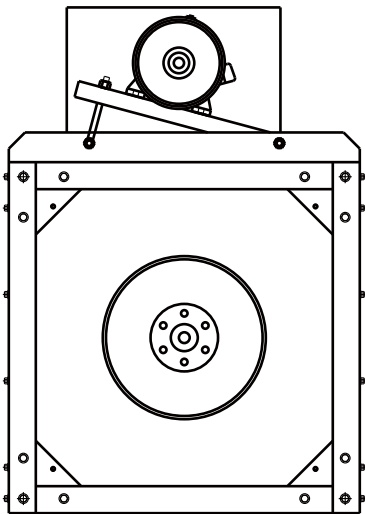
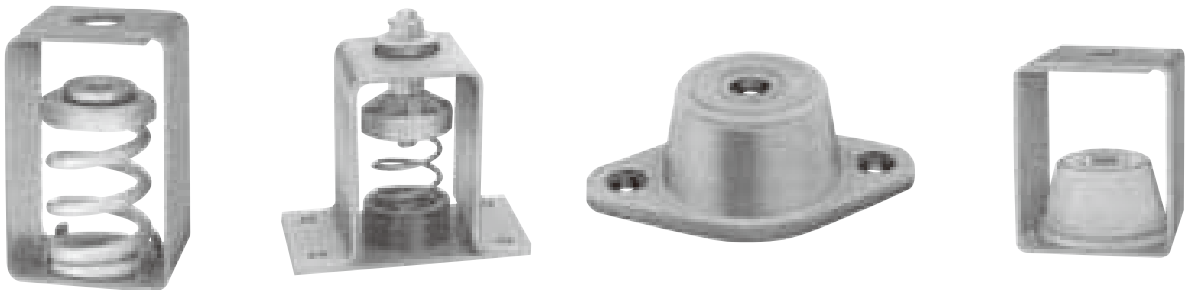
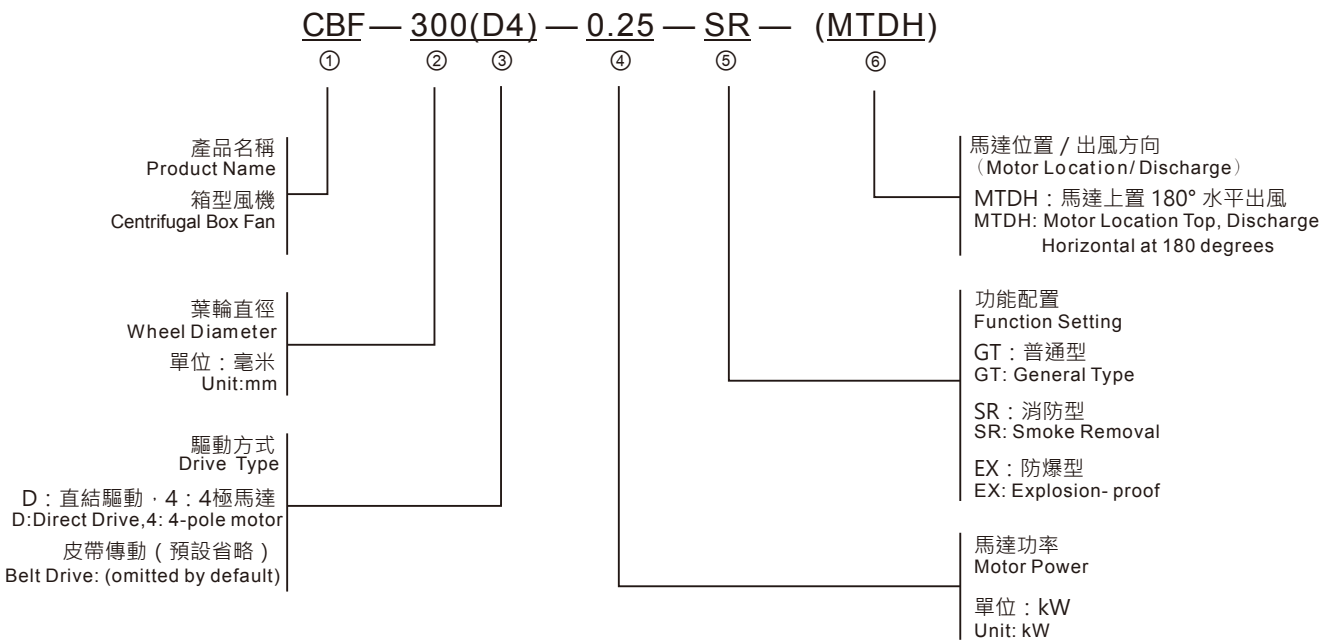
第五節：馬達
馬達應與風機負載精密配合，防護等級 IP54，絕緣等級 F。馬達軸承應為框號250以上為注油式，雙面開放式滾珠或滾筒軸承。其餘為預注油脂式，雙遮蓋密閉式滾珠軸承。

Section 5: Motor
The motor shall match the fan load precisely. It shall be IP55 rated with Class F Insulation. The motor bearing shall be Bracket Mounting, Vacuum De-Gassed High Quality Open Bearings for Frame 250 and above, Grease Pre-Packed Shielded Rolling Bearings for the Others.

第六節：銘牌
永久固定的鋁製標牌上應標有清晰可辨的風機編號，型號和產品序號（即每台機器的唯一身份證明），從而可保證客戶方便地查詢配件的歷史記錄。

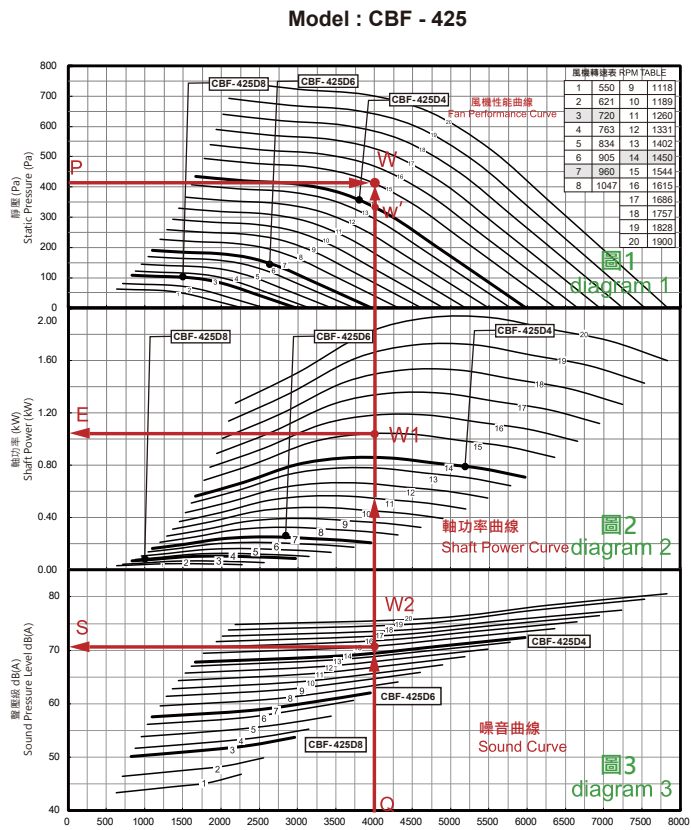
Section 6: Nameplate
A permanently fixed aluminum nameplate shall clearly display the fan number, product model and serial number (a unique ID for each fan) so that the parts used can be traceable by customers.

命名規則
Naming Principle



曲線說明
Curve Introduction

- 每個型號風機由一組曲線表示不同轉速下的性能。
- 粗曲線代表風機為直聯型，即葉輪與馬達直接連接（直聯機型的型號已經在圖中單獨用箭頭標出）。所有直聯型號均應在葉輪直徑後加字母D以及馬達極數。
- 細曲線代表使用皮帶連接，透過選擇兩個皮帶輪不同直徑配比來得到所需轉速，而馬達採用 2、4、6 極的。
- 軸功率曲線顯示風機實際耗用的電能。
- 聲壓級曲線顯示距離風機 1.5 公尺的噪音。
- Fans of each model have performances at different speeds described by curves.
- Curves shown in boldface represent fans of direct drive type which means the wheel is directly driven by the motor (models of these fans are shown in arrows). A letter D and the number of motor poles are added to the wheel diameter of all the direct drive fans.
- Curves shown in lightface represent fans of belt drive type. The required wheel RPM is reached through using two pulleys of different diameter ratios. The motor is of two, four and six poles.
- Shaft Power Curve shows the actual power consumption of fans.
- Sound Pressure Level curve shows the sound level 1.5 meters from the fan.



曲線選型舉例：風量：4,000 m³/h
全壓：450 Pa

第一步：自給定的風量（圖Q點：4,000 m³/h）出發作垂直線，自給定靜壓點（圖P點：450 Pa）作水平線，其交點（圖W點）即為“工作點”，尋找離該點最近的性能曲線（15號曲線），其轉速為1,544轉/分鐘。如“工作點”離性能曲線較遠，請選擇其他型號重複“第一步”直到找到比較接近“工作點”的性能曲線。

第二步：該垂直線與相應轉速的軸功率曲線的交點（圖W1點），自此交點（圖W1點）作水平線與軸功率軸相交，其交點（圖E點：約為1.01 kW，即為實際功耗，代表工作所需的電能），根據功率儲備係數（選擇1.15）計算所需功率應選擇1.5 kW馬達。

第三步：該垂直線與相應轉速的聲壓級曲線的交點（圖W2點），自此交點（圖W2點）作水平線與聲壓級軸相交，其交點（圖S點：約為70 dB(A)），即為W工作點的噪音。

第四步：根據上述步驟，該型號初步選定為CBF-425-1.5，皮帶驅動，轉速為1,544 RPM，如果希望更低的功率，可參考較大型號的風機進行比較，但初期投資會增加。

第五步：進一步地，如果需求為4,000 m³/h、350 Pa靜壓，則容易發現W點距離14號加粗曲線（代表直聯風機，1450 RPM · 4極馬達）很接近，則按照箭頭標明的型號為CBF-425D4配1.1 kW馬達，其性價比更高。

備註：儲備係數由選型人員根據實際需求自己決定，一般取1.15。

Example: Airflow: 4,000m³/h Static Pressure: 450Pa

Step One: A vertical line is drawn from the given air airflow (Point Q: 4,000m³/h) and a horizontal line from the given static pressure (Point P: 450Pa). The intersection point (Point W) is the operating point. Then find a performance curve closest to Point W (in this case, it is curve 16 at 1,544 RPM as shown). If the operating point is far from the performance curve, please choose other models and repeat the same procedure as above until the right performance curve can be found.

Step Two: From the intersection point (Point W1) between the vertical line and Shaft Power Curve is drawn a horizontal line. Its intersection point with the Shaft Power axis (Point E: about 1.01kW) represents the actual power consumption. Based on the coefficient of power reserve (1.15), the required power of 1.5kW is figured out.

Step Three: From the intersection point (Point W2) between the vertical line and Sound Pressure Level curve is drawn a horizontal line. Its intersection point with the Sound Pressure Level axis (Point S: about 70dB (A)) represents the sound level for the operating point of W.

Step Four: From the above steps, the model of the fan is identified as CBF-425-1.5 of belt drive type at 1,544RPM. If fans of lower shaft power are preferred, please refer to larger fans for further comparison. It should be noted that the primary investments for larger fans would increase.

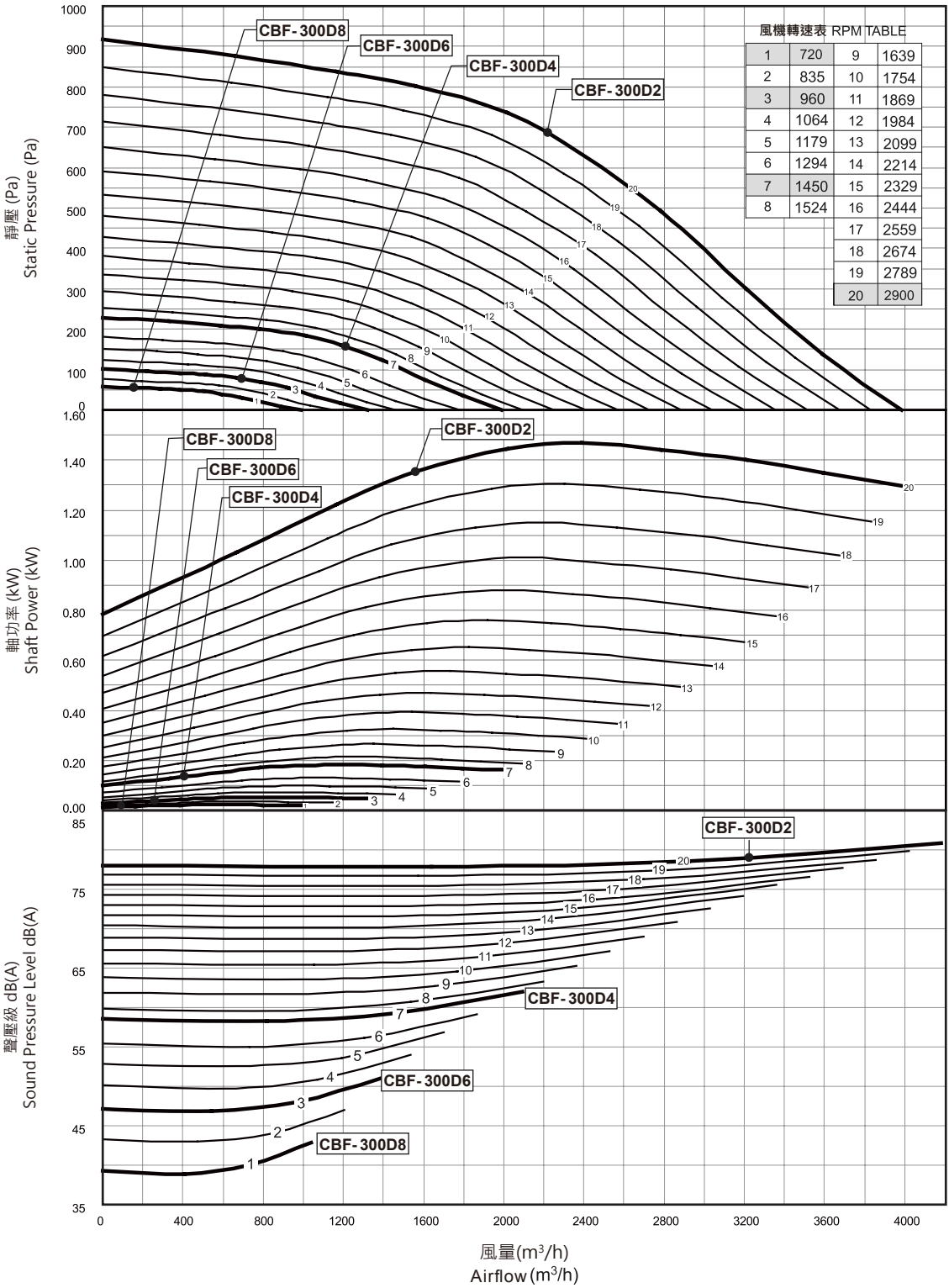
Step Five: If a fan of 4,000m³/h at 350Pa static pressure is needed, it is easy to know that Point W' is very close to curve 14 shown in boldface (indicating a direct drive fan of 4poles at 1,450RPM). Then as is shown by the arrow, the CBF-425D4 fan equipped with a 1.1KW motor is finally identified, which is a much more cost-effective choice.

Note: The coefficient of power reserve is determined by model selection staff based on actual needs (typically 1.15).

經認證的性能是B類安裝：
自由入口，管道出口。額定功率包括傳輸（動）損失。各項性能額定值不包括附屬物（附件）的影響。dB(A) 聲壓級參數基於每個倍頻程在1.5公尺距離處按照11.5dB衰減計算。聲壓級參數-dB(A) 水平未獲AMCA International授權。

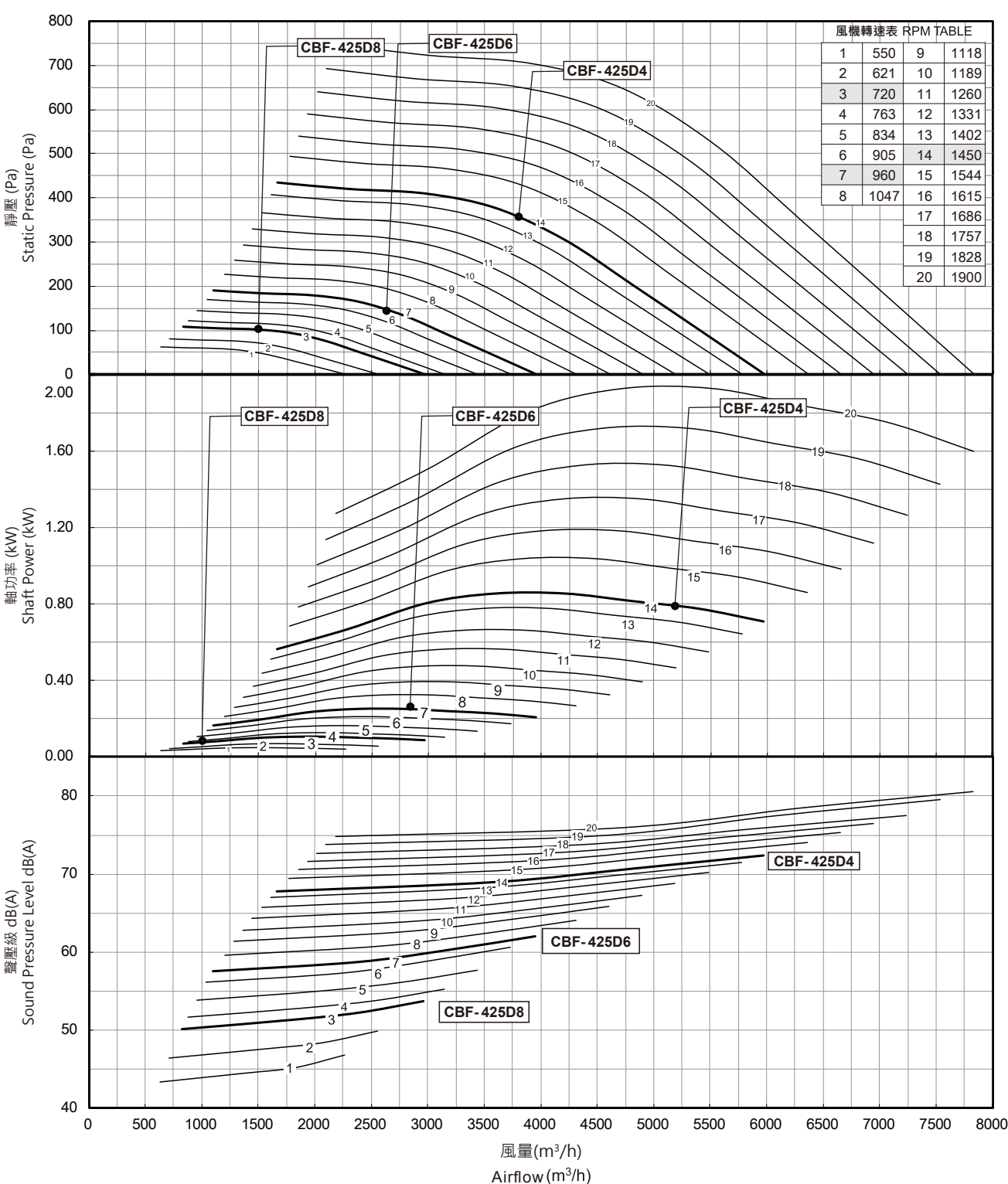
性能曲線
Performance Curve

Model : CBF - 300



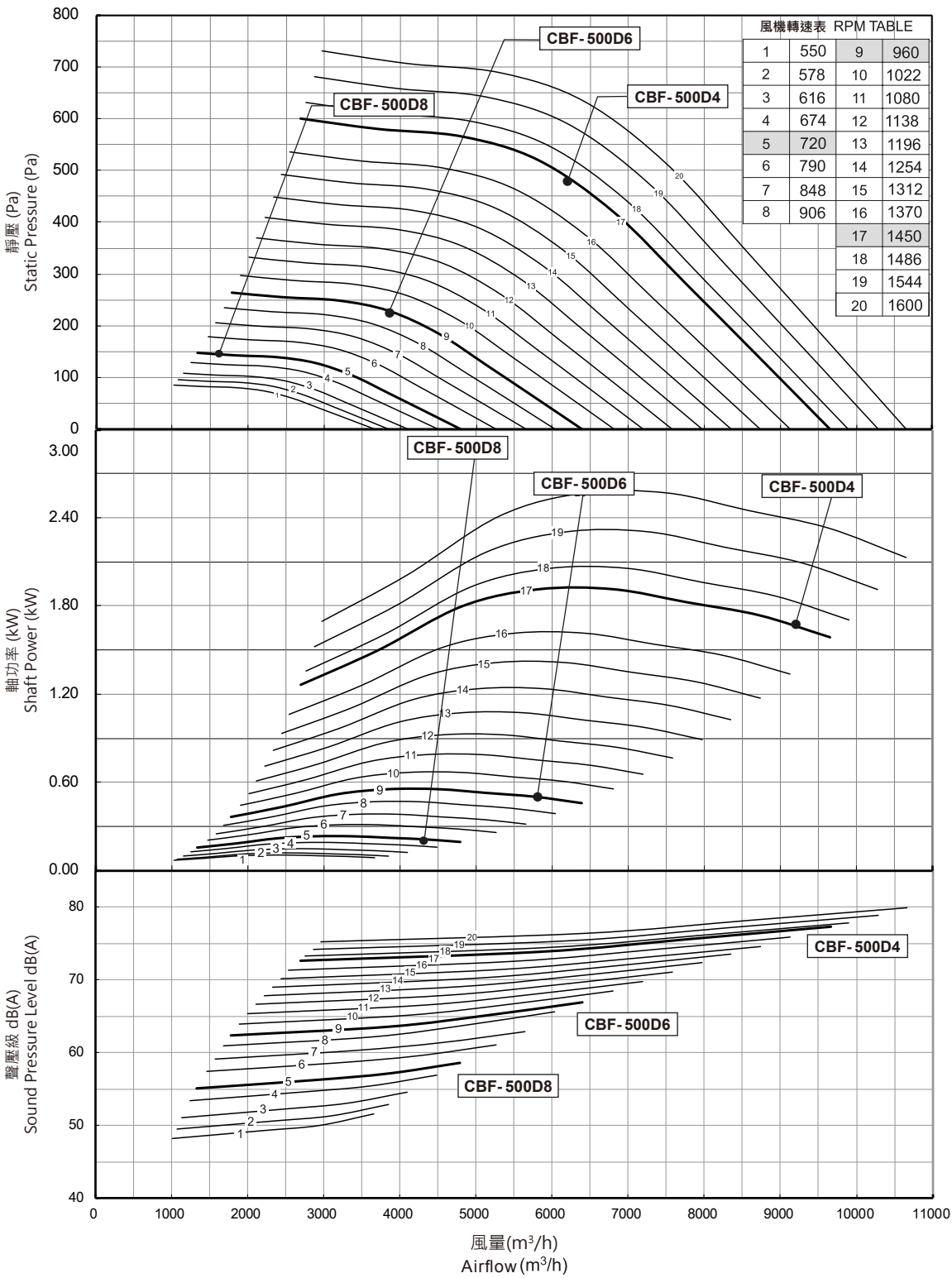
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 425



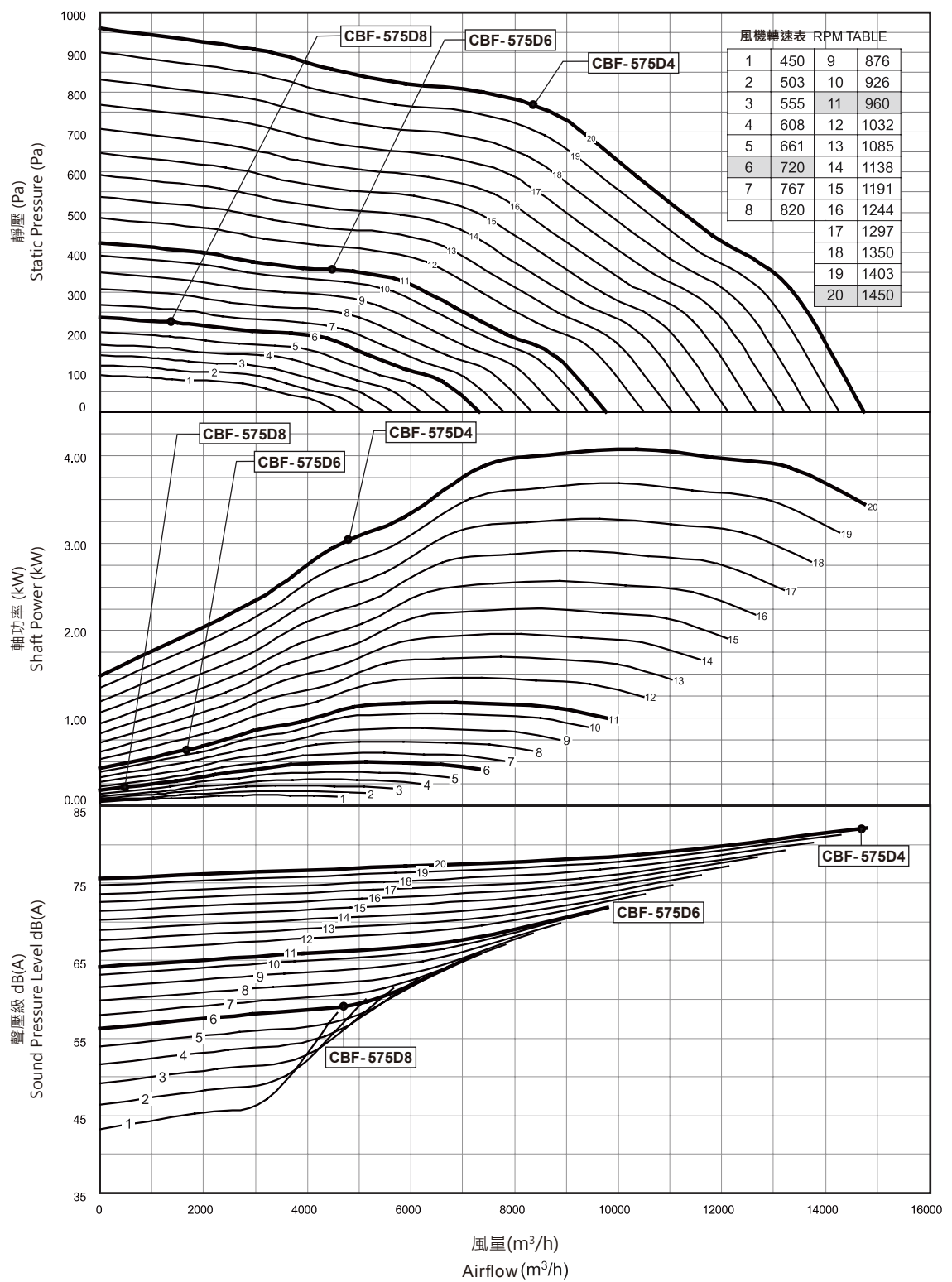
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 500



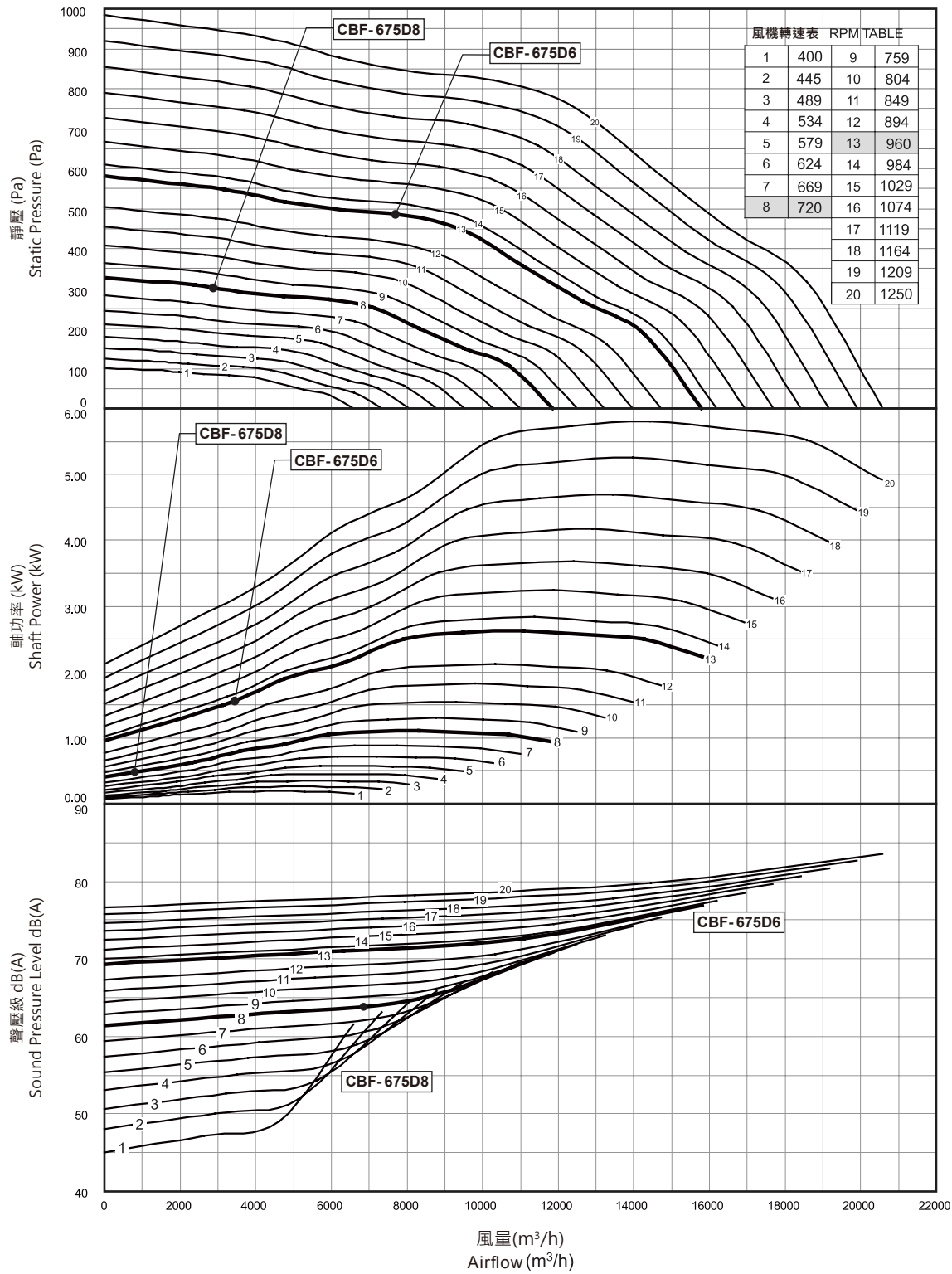
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 575



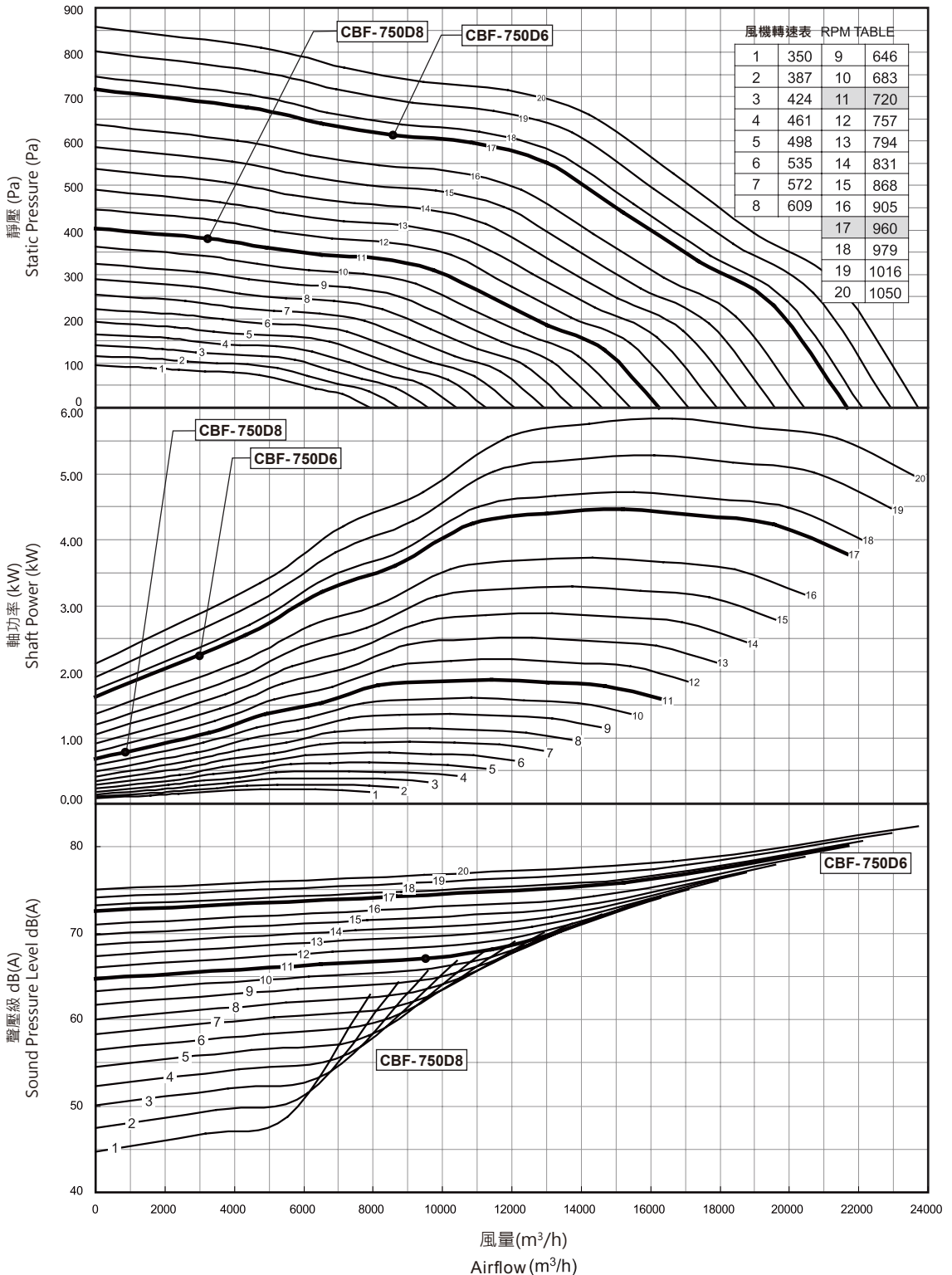
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 675



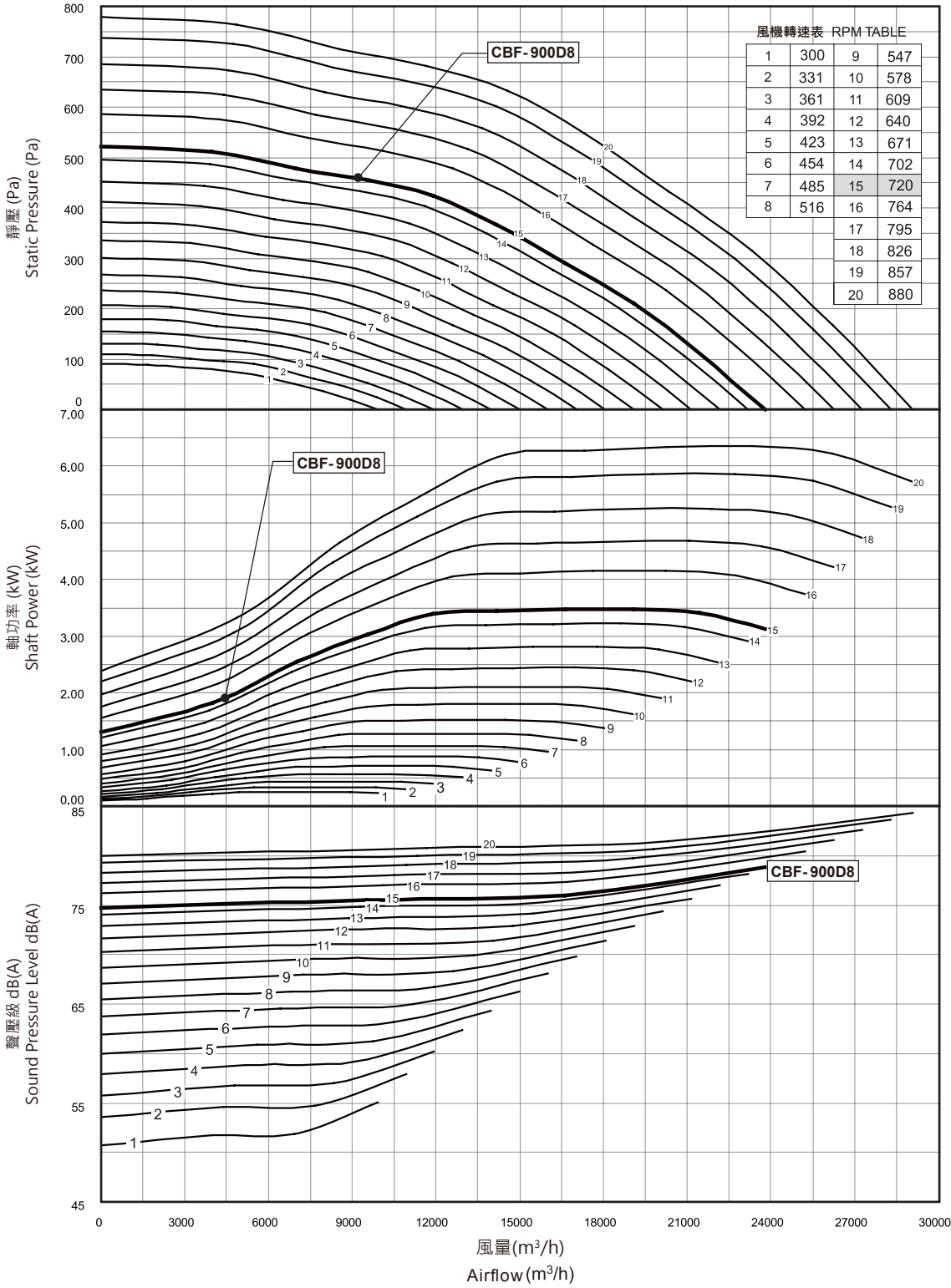
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 750



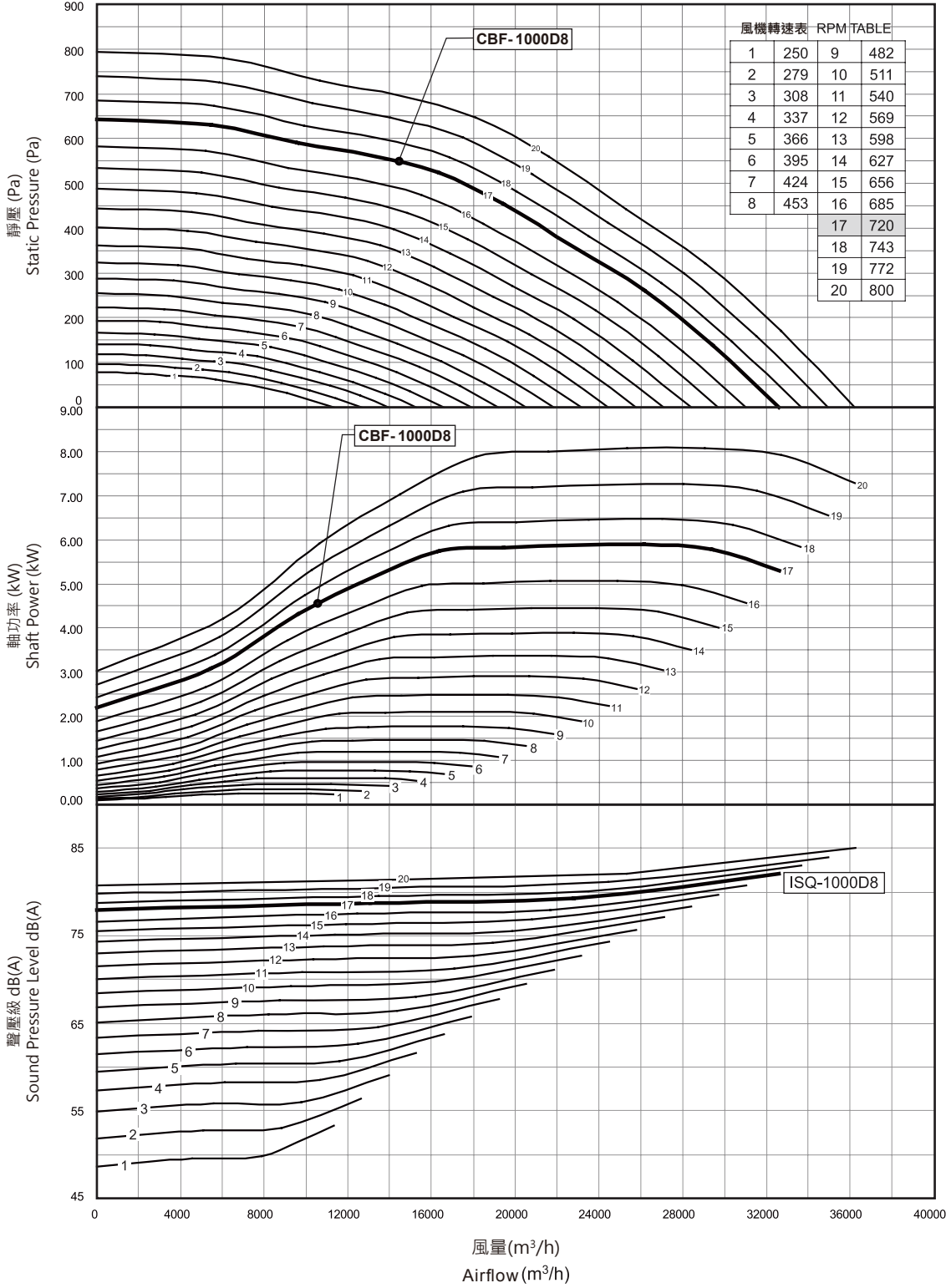
Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 900



Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

Model : CBF - 1000



Performance certified is for installation type B-free inlet, ducted outlet. Power rating (kW) includes transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A)A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that LpA-dB(A) levels are not licensed by AMCA International.

CBF - 300

風機轉速 RPM	風量 m³/h	聲功率 SOUND POWER 八度音階 OCTAVE BANDS								聲功率 LWIA	聲壓 dB(A)
		1	2	3	4	5	6	7	8		
720	989	49	53	51	53	51	44	35	27	54	43
	691	50	50	50	49	47	42	36	29	51	40
	387	50	49	49	48	46	42	36	30	50	39
	0	50	48	49	49	46	42	36	30	51	39
	1147	53	56	57	55	55	49	40	32	58	47
835	802	54	54	55	53	51	47	40	34	56	44
	449	55	53	53	52	50	46	40	34	54	43
	0	56	53	53	53	50	46	40	34	55	43
	1319	57	59	62	58	60	54	45	37	63	51
	922	58	58	59	56	55	51	45	38	59	48
960	516	59	58	57	56	53	51	45	39	58	47
	0	61	57	57	57	54	50	44	38	59	47
	1462	60	61	66	59	63	57	49	40	66	54
	1021	61	61	62	59	58	54	48	42	62	51
	572	62	61	60	58	56	54	48	42	61	50
1064	0	64	60	59	59	57	53	47	41	62	50
	1620	64	64	69	62	65	61	52	44	68	57
	1132	65	64	65	62	61	57	51	45	65	54
	634	66	64	63	61	59	57	51	45	64	53
	0	68	64	62	62	60	56	51	45	64	53
1179	1777	67	66	70	65	67	63	55	47	71	59
	1242	68	67	67	65	63	60	54	48	68	56
	696	69	67	65	64	61	59	54	48	67	55
	0	71	67	64	64	62	59	53	47	67	55
	1992	72	70	73	70	69	67	59	51	73	62
1450	1392	72	70	70	68	66	63	58	51	71	59
	780	73	70	68	67	64	62	57	51	70	58
	0	75	71	67	67	65	62	57	51	70	59
	2093	74	71	74	71	70	68	61	52	75	63
	1463	74	72	71	70	67	64	59	53	72	61
1524	820	75	72	70	69	66	63	59	53	71	60
	0	77	73	69	69	67	63	58	52	71	60
	2251	77	73	75	74	71	70	63	55	77	65
	1573	77	74	73	72	69	66	61	55	74	63
	882	77	74	72	71	68	65	61	55	73	62
1639	0	80	75	71	71	69	65	61	55	73	62
	2409	79	75	77	77	72	72	66	57	79	67
	1684	79	76	75	74	70	68	64	57	76	65
	944	80	77	74	73	69	67	63	57	75	64
	0	82	78	73	72	70	67	63	57	75	64
1869	2567	82	77	78	79	73	74	68	59	81	69
	1794	81	78	77	76	72	70	66	59	78	66
	1005	82	79	76	75	71	68	65	59	77	65
	0	84	80	75	74	72	69	65	59	77	66
	2725	84	79	79	81	74	76	70	61	82	71
1984	1905	84	80	78	78	74	71	67	61	80	68
	1067	84	81	78	76	73	70	67	61	79	67
	0	86	82	77	75	74	71	66	60	79	67
	2883	86	80	80	83	75	78	72	63	84	73
	2015	86	81	80	80	75	73	69	63	81	70
2099	1129	86	82	80	78	74	71	68	62	80	69
	0	88	84	79	77	75	72	68	62	80	69
	3041	88	82	81	85	76	79	74	65	86	74
	2125	87	83	81	81	76	74	71	64	83	71
	1191	88	84	81	80	76	73	70	64	82	70
2214	0	90	86	81	78	77	74	70	64	82	70
	3199	90	84	83	86	78	81	75	67	87	76
	2236	89	85	83	82	78	76	72	66	84	73
	1253	89	86	83	81	77	74	71	66	83	72
	0	92	88	83	79	78	75	71	65	83	72
2444	3357	91	86	84	87	79	81	77	69	88	77
	2346	90	86	84	83	79	77	74	67	85	74
	1315	90	88	84	82	78	75	73	67	84	73
	0	93	90	84	80	79	76	73	67	85	73
	3515	91	87	85	88	81	82	78	70	89	78
2559	2457	90	88	86	84	81	78	75	69	86	75
	1377	91	89	86	83	80	76	74	68	86	74
	0	93	91	86	81	80	77	74	68	86	74
	3673	92	89	87	89	83	83	79	72	90	79
	2567	91	90	87	85	82	79	76	70	88	76
2674	1438	92	91	87	84	81	78	75	70	87	75
	0	94	93	88	83	81	79	75	70	87	76
	3831	93	91	88	90	84	84	81	73	91	80
	2677	92	91	88	87	83	80	77	72	89	77
	1500	93	92	89	85	82	79	76	71	88	77
2789	0	95	94	89	84	83	80	76	71	88	77
	3984	93	92	89	91	86	84	82	74	92	81
	2784	93	93	90	88	84	81	78	73	90	79
	1560	93	94	90	87	83	80	77	72	89	78
	0	95	96	90	85	84	81	77	72	90	78

CBF - 425

風機轉速 RPM	風量 m³/h	聲功率 SOUND POWER 八度音階 OCTAVE BANDS								聲功率 LWIA	聲壓 dB(A)
		1	2	3	4	5	6	7	8		
550	2266	63	66	59	55	52	49	47	45	58	47
	1824	61	63	57	54	51	47	44	41	57	45
	1366	59	58	55	53	51	48	44	40	56	44
	632	59	56	54	52	50	47	44	41	55	43
621	2559	65	68	62	58	55	52	50	48	61	50
	2060	64	65	60	57	55	50	47	44	60	48
	1542	62	60	58	56	54	51	47	43	59	48
	713	62	59	57	55	53	50	47	44	58	46
720	2966	69	71	66	62	59	56	54	52	65	54
	2388	67	69	64	61	58	54	51	48	64	52
	1788	66	64	62	60	58	55	51	47	63	51
	827	66	63	60	58	56	54	51	48	62	50
763	3144	70	73	68	64	60	57	55	53	67	55
	2531	68	70	66	62	60	56	52	49	65	54
	1894	67	65	63	61	59	56	53	49	64	53
	876	68	64	62	60	58	55	52	49	63	52
834	3436	72	75	71	66	63	60	57	55	69	58
	2766	70	72	69	65	62	58	55	52	68	56
	2071	69	67	65	63	61	59	55	51	67	55
	958	71	66	64	62	60	57	54	51	65	54
905	3729	74	75	76	68	65	62	59	57	72	61
	3002	72	73	74	67	64	61	57	54	70	59
	2247	71	70	69	65	63	61	57	53	69	57
	1039	73	69	67	64	62	60	57	54	68	56
960	3955	75	76	78	70	66	63	61	59	74	62
	3184	73	74	75	68	66	62	59	55	72	60
	2384	73	71	70	67	65	62	59	55	70	59
	1103	75	70	68	66	64	61	58	55	69	58
1047	4314	77	77	79	72	69	66	63	61	76	64
	3473	75	75	77	71	68	65	61	57	74	62
	2600	75	73	72	69	67	65	61	57	72	61
	1203	77	72	70	68	66	63	60	57	71	60
1118	4606	79	79	81	74	70	67	65	63	77	66
	3709	77	77	78	72	69	67	63	59	76	64
	2776	77	75	73	71	69	66	63	59	74	63
	1284	79	74	72	69	67	65	62	59	73	61
1189	4899	80	80	82	76	72	69	66	64	79	67
	3944	78	78	79	74	71	68	64	61	77	66
	2952	78	76	74	72	70	68	65	61	76	64
	1366	81	76	73	71	69	67	64	61	74	63
1260	5191	82	81	84	77	73	70	67	65	80	69
	4180	80	79	81	76	72	70	66	62	79	67
	3128	80	78	76	74	72	70	67	63	77	66
	1447	83	77	74	72	70	68	65	62	76	64
1331	5484	83	82	85	79	75	72	69	67	82	70
	4415	81	80	82	77	74	72	67	64	80	69
	3305	81	79	77	75	73	71	68	64	78	67
	1529	84	79	76	74	72	70	67	64	77	66
1402	5776	84	83	86	81	76	73	70	68	83	72
	4651	82	81	83	79	75	73	69	65	81	70
	3481	82	80	78	76	74	72	69	65	80	68
	1610	86	80	77	75	73	71	68	65	79	67
1450	5974	85	84	87	82	77	74	71	69	84	72
	4810	83	82	84	80	76	74	70	66	82	71
	3600	83	81	79	77	75	73	70	66	80	69
	1665	86	81	78	76	74	72	69	66	79	68
1544	6361	86	85	88	84	79	76	73	70	86	74
	5122	84	84	85	82	78	75	71	68	84	72
	3834	84	83	81	79	77	75	72	68	82	71
	1773	88	83	80	77	75	73	71	68	81	69
1615	6654	87	86	89	85	80	77	74	72	87	75
	5357	85	85	86	83	79	76	73	69	85	74
	4010	85	84	82	80	76	74	73	69	83	72
	1855	89	85	81	78	76	74	72	69	82	71
1686	6946	88	87	90	86	81	78	75	73	88	76
	5593	86	86	87	84	80	77	74	70	86	75
	4186	86	85	83	81	79	77	74	70	84	73
	1936	90	86	82	79	77	75	73	70	83	72
1757	7239	89	88	91	88	82	79	76	74	89	78
	5828	87	86	88	85	81	78	75	71	87	76
	4362	87	86	84	82	80	78	75	72	85	74
	2018	90	87	83	80	78	76	74	71	84	73
1828	7531	90	89	90	92	84	80	77	75	91	80
	6064	88	87	88	89	82	79	76	72	89	77
	4539	88	87	85	84	81	79	76	73	86	75
	2100	91	88	84	82	79	77	75	72	85	74
1900	7828	90	90	91	92	85	81	78	76	92	81
	6303	88	88	89	90	83	80	77	73	90	78
	4717	89	88	86	85	82	80	77	74	87	76
	2182	92	90	85	83	80	78	76	73	86	75

CBF - 675

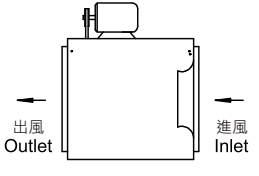
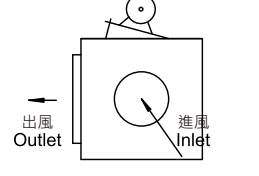
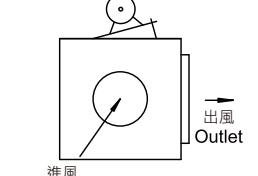
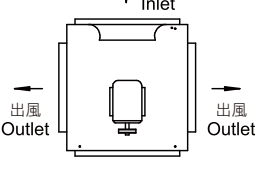
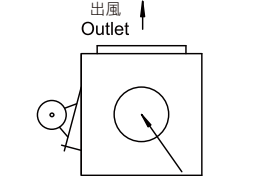
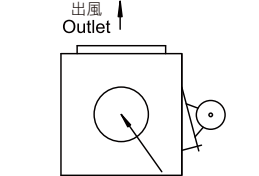
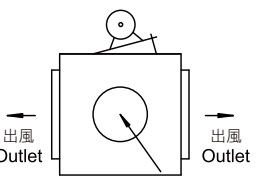
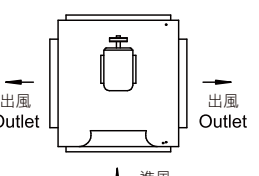
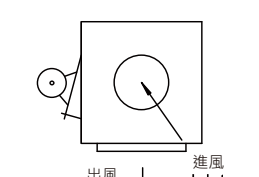
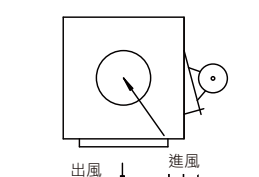
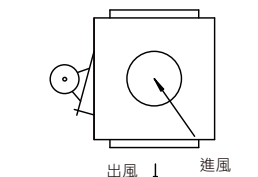
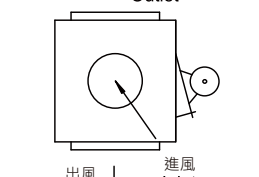
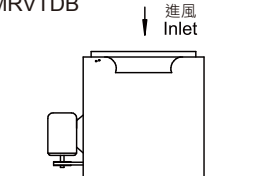
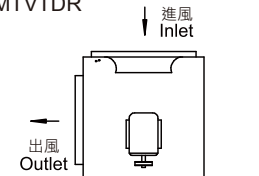
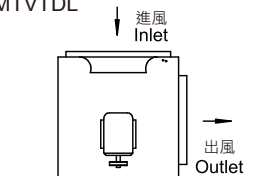
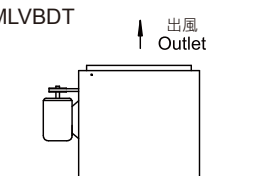
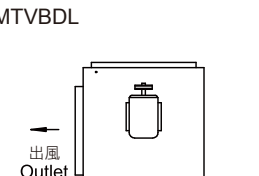
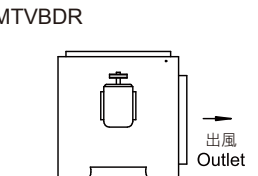
風機轉速 RPM	風量 m³/h	聲功率 SOUND POWER 八度音階 OCTAVE BANDS								聲功率 LWia	聲壓 dB(A)
		1	2	3	4	5	6	7	8		
		VOLU	ME								
400	6584	66	65	63	61	57	60	66	72	73	62
	4620	62	62	60	58	55	52	49	46	61	49
	2627	61	60	59	57	53	49	44	38	59	47
	0	59	59	58	55	51	46	40	34	57	45
445	7325	68	69	65	63	60	61	67	73	75	63
	5140	65	65	63	61	58	54	52	49	63	52
	2923	63	63	62	60	56	52	47	41	62	50
	0	62	62	60	58	54	50	43	37	60	48
489	8049	70	72	68	66	63	63	69	75	76	64
	5648	67	68	65	64	60	57	54	51	66	54
	3212	66	66	64	62	59	55	49	44	64	53
	0	65	64	63	60	57	53	46	40	62	51
534	8790	72	76	70	68	65	64	70	76	77	66
	6168	69	71	68	66	63	59	56	53	68	57
	3507	68	69	66	65	61	57	52	47	67	55
	0	68	67	65	63	59	55	49	43	65	53
579	9531	73	78	73	70	67	65	71	77	79	67
	6688	71	73	70	68	65	61	58	56	70	59
	3803	70	71	68	67	63	60	54	49	69	57
	0	70	69	68	65	61	58	52	45	67	55
624	10271	74	81	75	72	69	66	72	78	80	68
	7207	72	76	71	70	67	63	60	57	72	61
	4098	72	74	70	69	66	62	57	51	71	59
	0	72	71	70	67	63	60	54	48	69	57
669	11012	76	82	77	74	71	67	73	79	81	70
	7727	74	77	74	72	69	65	62	59	74	63
	4394	74	75	72	71	67	64	59	53	73	61
	0	74	73	71	69	65	62	56	50	71	59
720	11852	79	84	79	76	73	70	74	80	82	71
	8316	77	79	76	74	71	67	64	61	76	65
	4729	76	77	74	72	69	66	61	56	75	63
	0	76	75	73	71	67	64	58	52	73	61
759	12493	80	85	81	77	75	71	74	80	83	72
	8767	79	80	78	75	72	68	65	63	78	66
	4985	78	79	76	74	71	67	62	57	76	65
	0	77	77	75	72	68	65	60	54	74	63
804	13234	82	86	83	79	76	73	75	81	85	73
	9287	80	82	79	77	74	70	67	64	79	68
	5281	80	80	78	75	72	69	64	59	78	66
	0	79	78	77	74	70	67	62	55	76	64
849	13975	84	87	85	80	77	74	76	82	86	74
	9806	82	83	81	78	75	72	68	65	81	69
	5576	82	81	80	77	74	70	66	60	79	68
	0	80	80	78	75	71	68	63	57	77	66
894	14716	86	88	87	82	79	75	76	82	87	75
	10326	84	84	83	79	77	73	70	67	82	71
	5872	83	83	81	78	75	72	67	62	81	69
	0	82	82	80	77	73	70	65	59	79	67
960	15802	88	89	89	84	81	77	77	83	88	77
	11088	86	86	85	81	79	75	71	69	84	73
	6305	85	85	83	80	77	74	69	64	82	71
	0	83	84	82	79	75	71	67	61	81	69
984	16197	89	89	90	84	81	78	78	84	89	77
	11366	87	86	86	82	79	76	72	69	85	73
	6463	86	85	84	80	78	74	70	65	83	72
	0	84	85	82	79	76	72	68	62	81	70
1029	16938	90	90	92	86	82	79	78	84	90	79
	11885	89	87	87	83	80	77	73	70	86	74
	6758	88	86	85	81	79	75	71	66	84	73
	0	85	86	84	81	77	73	69	63	83	71
1074	17678	92	91	93	87	84	81	79	85	91	80
	12405	90	88	89	84	82	78	74	71	87	76
	7054	89	87	87	83	80	77	72	67	86	74
	0	86	87	85	82	78	74	71	64	84	72
1119	18419	93	92	95	88	85	82	79	85	92	81
	12925	91	89	90	85	83	79	75	73	88	77
	7349	90	89	88	84	81	78	74	68	87	75
	0	87	88	86	83	79	75	72	66	85	74
1164	19160	94	92	96	89	86	83	80	86	93	82
	13445	93	90	91	86	84	80	76	74	89	78
	7645	91	90	89	85	82	79	75	70	88	76
	0	88	90	87	84	80	76	73	67	86	75
1209	19901	96	93	97	90	87	84	80	86	94	83
	13964	94	91	92	87	85	81	77	75	90	79
	7941	93	91	90	86	83	80	76	71	89	77
	0	89	91	88	85	81	77	74	68	87	76
1250	20576	97	94	99	91	88	85	81	87	95	84
	14438	95	92	94	88	86	82	78	75	91	80
	8210	94	91	91	86	84	81	77	72	90	78
	0	90	92	89	86	82	78	75	69	88	77

CBF - 750

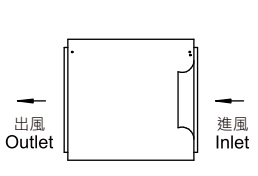
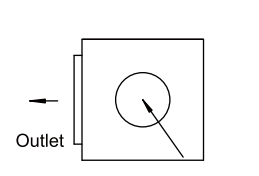
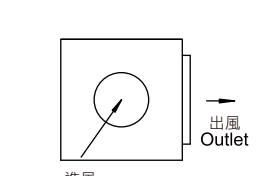
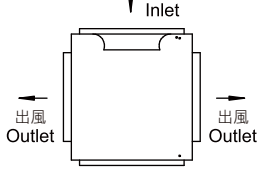
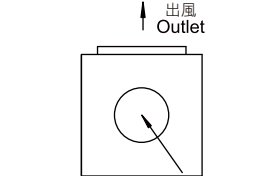
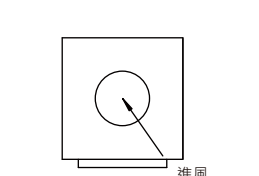
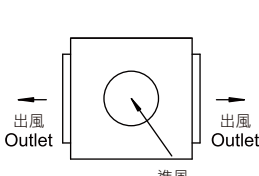
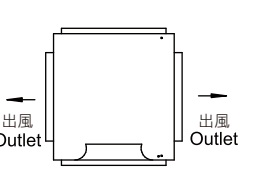
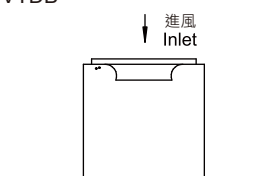
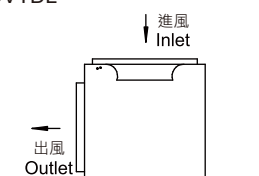
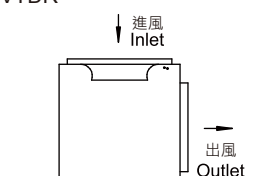
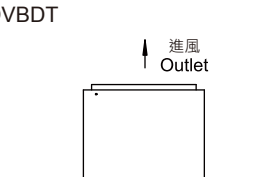
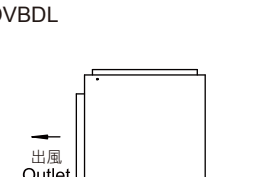
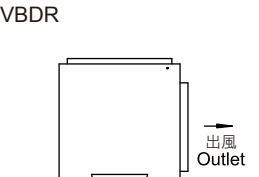
風機轉速 RPM	風量 m³/h	聲功率 SOUND POWER 八度音階 OCTAVE BANDS								聲功率 LW(a)	聲壓 dB(A)
		1	2	3	4	5	6	7	8		
		VOLU	ME								
350	7903	68	65	62	60	57	61	67	73	74	63
	5545	63	61	60	58	54	51	49	46	60	49
	3153	61	60	59	57	53	48	43	38	58	47
	0	59	59	57	54	51	46	39	33	56	45
387	8738	69	68	65	63	60	63	69	75	76	64
	6132	65	64	63	61	57	54	51	48	63	51
	3487	64	63	61	59	56	51	46	41	61	50
	0	62	62	60	57	54	49	42	36	59	47
424	9574	71	71	68	65	62	64	70	76	77	66
	6718	67	67	65	63	60	56	54	51	65	54
	3820	66	66	64	62	58	54	48	43	64	52
	0	65	64	63	59	56	51	45	39	62	50
461	10409	73	74	70	68	64	65	71	77	78	67
	7304	69	70	67	65	62	58	56	53	68	56
	4153	68	68	66	64	60	56	51	46	66	54
	0	67	67	65	62	58	54	48	41	64	52
498	11245	74	77	72	70	66	66	72	78	79	68
	7890	71	72	69	67	64	60	58	55	70	58
	4487	70	71	68	66	63	58	53	48	68	56
	0	69	69	67	64	60	56	50	44	66	54
535	12080	75	79	74	71	68	67	73	79	81	69
	8477	73	75	71	69	66	62	60	57	72	60
	4820	72	73	70	68	65	61	55	50	70	58
	0	72	71	69	66	62	59	52	46	68	56
572	12915	77	82	76	73	70	68	74	80	82	70
	9063	74	77	73	71	68	64	61	58	73	62
	5153	74	75	71	70	66	62	57	52	72	60
	0	74	73	71	68	64	61	54	48	70	58
609	13751	78	84	77	75	72	69	75	81	83	71
	9649	76	79	74	73	69	66	63	60	75	64
	5487	75	77	73	71	68	64	59	54	73	62
	0	75	74	72	70	65	63	56	50	72	60
646	14586	79	85	79	76	74	70	75	81	84	72
	10235	77	80	76	74	71	67	64	62	77	65
	5820	77	78	75	73	70	66	61	56	75	64
	0	77	76	74	71	67	64	58	52	73	62
683	15422	81	86	81	78	75	71	76	82	85	73
	10822	79	82	78	76	73	69	66	63	78	67
	6153	79	80	76	74	71	68	62	57	77	65
	0	79	77	75	73	69	66	60	54	75	63
720	16257	83	87	83	79	76	73	77	83	86	74
	11408	81	83	79	77	74	70	67	64	80	68
	6487	80	81	78	76	73	69	64	59	78	66
	0	80	79	77	74	70	67	61	55	76	65
757	17093	84	88	85	81	78	74	78	84	87	75
	11994	82	84	81	78	75	72	68	66	81	69
	6820	82	82	79	77	74	70	65	60	79	68
	0	81	80	78	76	71	68	63	57	78	66
794	17928	86	89	86	82	79	75	78	84	88	76
	12580	84	85	82	80	77	73	70	67	82	71
	7154	83	83	81	78	75	72	67	62	81	69
	0	82	82	80	77	73	70	64	58	79	67
831	18764	87	90	88	83	80	77	79	85	89	77
	13167	85	86	84	81	78	74	71	68	83	72
	7487	85	85	82	79	76	73	68	63	82	70
	0	84	83	81	78	74	71	66	60	80	69
868	19599	89	91	89	84	81	78	79	85	89	78
	13753	87	87	85	82	79	75	72	69	85	73
	7820	86	86	84	80	78	74	69	64	83	72
	0	85	84	82	79	75	72	67	61	81	70
905	20434	90	91	91	85	82	79	80	86	90	79
	14339	88	88	87	83	80	76	73	70	86	74
	8154	87	87	85	81	79	75	71	65	84	73
	0	86	86	83	80	77	73	68	62	82	71
960	21676	92	93	93	87	84	81	81	87	92	80
	15210	90	89	89	84	82	78	75	72	87	76
	8649	89	88	87	83	80	77	72	67	86	74
	0	87	87	85	82	78	75	70	64	84	73
979	22105	93	93	94	88	84	81	81	87	92	81
	15511	91	90	89	85	82	79	75	72	88	76
	8820	90	89	87	83	81	77	73	68	86	75
	0	88	88	86	83	79	75	71	65	85	73
1016	22941	94	94	95	89	85	82	81	87	93	82
	16098	92	91	90	86	83	80	76	73	89	77
	9154	91	90	88	84	82	78	74	69	87	76
	0	89	89	87	84	80	76	72	66	86	74
1050	23708	95	94	96	89	86	83	82	88	94	82
	16636	93	91	91	87	84	81	77	74	90	78
	9460	92	91	90	85	83	79	75	70	88	77
	0	90	90	88	84	81	77	73	67	87	75

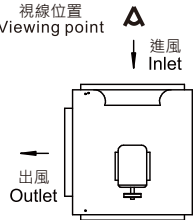
可選出風方向
Different Discharge Direction Options

皮帶式 Belt Drive

MTDH  水平出風 Horizontal Discharge	MTDL  左出風 Left Discharge	MTDR  右出風 Right Discharge	MTVTDLR  上進風・左右出風 Top Intake,L&R Discharge
MLDT  上出風・電機左置 Top Discharge,Motor Location Left Side	MRDT  上出風・電機右置 Top Discharge,Motor Location Right Side	MTDLR  左右出風 L & R Discharge	MTVTDLR  下進風・左右出風 Bottom Intake,L&R Discharge
MLDB  下出風・電機左置 Bottom Discharge,Motor Location Left Side	MRDB  下出風・電機右置 Bottom Discharge,Motor Location Right Side	MLDTB  上下出風・電機左置 Top&Bottom Discharge, Motor Location Left Side	MRDTB  上下出風・電機右置 Top&Bottom Discharge, Motor Location Right Side
MRVTDB  上進風・下出風 Top Intake,Botton Discharge	MTVTDR  上進風・右出風 Top Intake,Right Discharge	MTVTDL  上進風・左出風 Top Intake,Left Discharge	說明：左上角為出風方向/電機位置代碼 Note: The codes at the top left corner indicate the discharge and motor location
MLVBBDT  下進風・上出風 Bottom Intake,Top Discharge	MTVBBDL  下進風・左出風 Bottom Intake,Left Discharge	MTVBBDR  下進風・右出風 Bottom Intake,Right Discharge	MTDLRH 電機上置・出風方向左、右、水平三側 Motor Location Top,Left,Right and Horizontal discharge 字母含義 Letter Specification M:Mot or T:Top D:Discharge L:Left R:Right H:Horizontal B:Bottom

直結式 Direct Drive

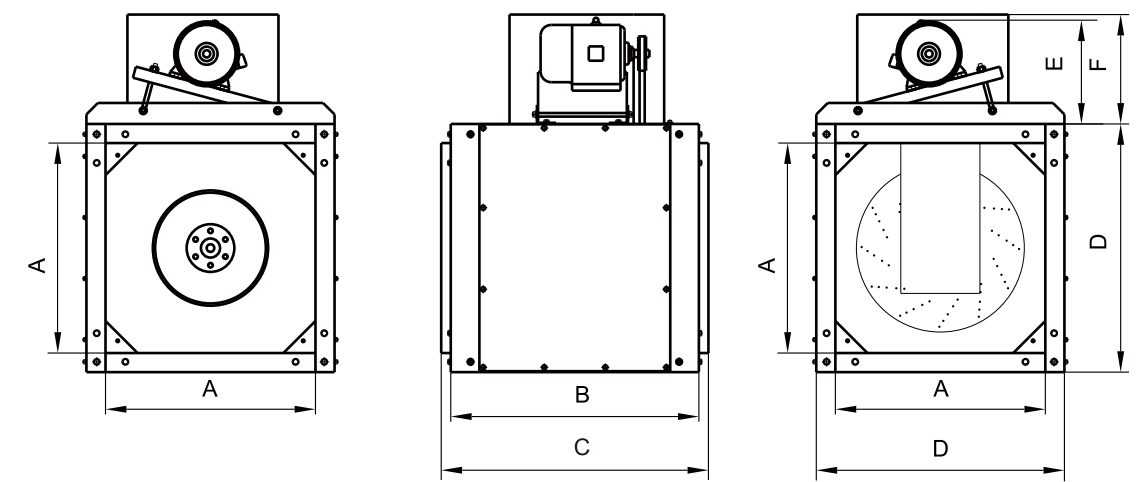
DDH  水平出風 Horizontal Discharge	DDL  左出風 Left Discharge	DDR  右出風 Right Discharge	DVTDLR  上進風・左右出風 Top Intake L&R Discharge
DDT  上出風 Top Discharge	ddb  下出風 Bottom Discharge	DDLr  左右出風 L & R Discharge	DVBDLR  下進風・左右出風 Bottom Intake,L&R Discharge
DVTDB  上進風・下出風 Top Intake,Bottom Discharge	DVTDL  上進風・左出風 Top Intake,Left Discharge	DVTDR  上進風・右出風 Top Intake,Right Discharge	
DVBBDT  下進風・上出風 Bottom Intake,Top Discharge	DVBBDL  下進風・左出風 Bottom Intake,Left Discharge	DVBBDR  下進風・右出風 Bottom Intake,Right Discharge	DDLr 直聯驅動・出風方向左、右 Direct Drive,Left and Right Discharge 字母含義 Letter Specification D:Direct Drive D:Discharge L:Left R:Right H:Horizontal B:Bottom



圖例：上進風・右出風 (MTVTDR)
安裝方式：垂直（豎直/立式）
電機位置：電機頂置
進風方向：上
出風方向：右
注意：電機位置和出風方向為進風口側觀察的結果（如圖所示）

Example: Top Intake, Right Discharge (MTVTDR)
Mounting style: Vertical (Erect/Upright)
Motor location: Motor Location Top
Intake: Top
Discharge: Right
Note: The motor location and discharge direction are determined by viewing from the fan inlet end (as shown).

機組尺寸及安裝
Unit Size and Installation

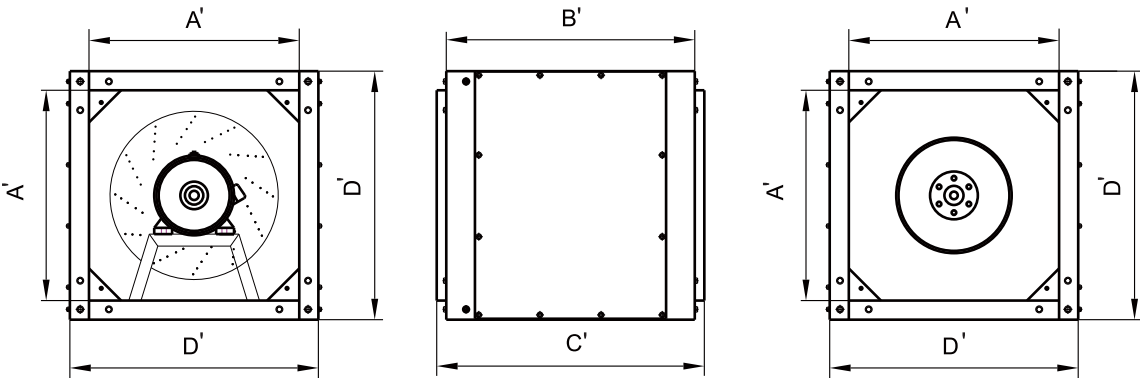


皮帶式
Belt Drive

CBF	A	B	C	D	E _{Max}	F Optional 選項	KG*
CBF-300	400	500	550	470	380	420	37
CBF-425	550	650	700	650	420	460	61
CBF-500	650	780	830	750	460	500	89
CBF-575	750	880	950	850	460	500	112
CBF-675	900	950	1020	1000	500	550	137
CBF-750	1000	980	1050	1100	500	550	165
CBF-900	1200	1030	1100	1300	550	600	225
CBF-1000	1350	1080	1050	1450	550	600	261

* 以上重量不含馬達
The weight in the above table does not include motor weight

單位 : mm Unit: mm



直結式
DirectDrive

CBF-D	A'	B'	C'	D'	KG*
CBF-300D	400	500	550	470	29
CBF-425D	550	650	700	650	50
CBF-500D	650	650	700	750	68
CBF-575D	750	700	770	850	92
CBF-675D	900	825	895	1000	111
CBF-750D	1000	900	970	1100	136
CBF-900D	1170	1020	1120	1270	203
CBF-1000D	1300	1060	1160	1400	282

* 以上重量不含馬達
The weight in the above table does not include motor weight

單位 : mm Unit: mm