SB系列雙吸多翼離心式風機
Series SB Double Inlet Centrifugal Ventilators with Forward Wheels

和旭風機
HORUS AIR MOVING CO., LTD.
(金日集團)
ISO 9001 認證
金日集團服務品質的肯定
和旭機械技術能力的最佳證明

和旭機械為創立於1978年之專業風機設備製造廠，以創新及品質著稱於業界。所生產之風機，以其經濟性及可靠性廣受市場好評。每年更投入大量資金於新型式、新工法及新技術之產品研發，通過國家研究單位及學術單位之產學學合作，期能開發出新世代領導品牌之產品。

1973 擁立旭和公司（和旭機械前身）
1978 公司改組，改立和旭公司於台北市
1981 遷址至新龍
1985 開發新產品消音箱
1987 獲入設計委託化
1988 承接大型公共工程之通風設備；石門水庫水力發電廠、內湖焚化爐、玉成抽水站、圓山抽水站
1990 擁立汐止廠
1992 與日本新興合作生產空調箱，承製核三廠消防用風機
1993 配合冷卻水塔廠商設計瓦壓式水塔用通風風機
1994 市場擴展至中國，承接MRT可逆向軸流式風機
1995 承接上海東昌大樓通風工程設備
1997 ISO-9002 品保系統認證合格
1998 購置金壇商，引進英國AEA之風扇液體流體計算分析軟體CFX-TASC FLOW於產品設計
1999 和台電公司、成功大學合作，開發隧道用通風機
2003 併入全日公司，結合全日銷售網路拓展市場
2004 擁立桃園廠，佔地7000m²，在全日上海廠設立測試設備
2004 桃園廠建置風機測試設備，通過TAF(CNLA)認證，測試方法包含AMCA210，ISO 5801，JIS 8330，CNS 7778/7779
2006 RB、SB系列風機產品通過美國AMCA認證
2008 XI系列軸流式風機產品通過美國AMCA認證
2010 和旭和風機實驗室新增測試方法通過TAF認證，包括CNS2726，AMCA500D，UL1213，FM1920，SAS322，SAS361等測試標準
2011 300°C/90min耐溫風機與耐溫馬達，依據EN12101-3通過TÜV產品認證
SB系列 - 雙吸多翼離心式風機
Series SB, Double Inlet Centrifugal Ventilators with Forward Wheels

SB系列風機採用前向多翼離心式葉輪，具有適用性強、效率高、噪音低、耗能少等特點。是各類中央空調機組及其它暖氣空調、淨化、通風等設備理想的配套產品。

The ventilators are centrifugal fans with forward curved impellers. Some of the features and characteristics of these ventilators are: forward impeller blading, a wide range of applications, high efficiency, low noise, and low power consumption. These ventilators are ideal for use in central air conditioning systems, heating and ventilating air conditioning systems, and in purifiers. They are also suitable for use in a number of other ventilator applications.

和旭機械股份有限公司對下圖所示的SB系列離心風機進行AMCA認證，並取得了標籤。樣式中的所有數據都基於AMCA的性能測試，性能測試符合AMCA 211和AMCA 311文件，完全按照AMCA認證程序的要求進行。

Horus Air Moving Co., Ltd. Certifies that the SB Centrifugal Ventilators shown herein are 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.

這裡描述的所有離心風機都已經取得了AMCA認證，它們的認證數據見第九頁至二十二頁。

All of the Centrifugal Ventilators described herein are licensed to bear the AMCA Seal, and their certified ratings are shown on pages 9 through 22.
### 旋向  Direction of Rotation

此風機旋向可分為左旋和右旋二種方式，以馬達一端正視，葉輪順時針旋轉的稱為右旋風機，逆時針旋轉的稱為左旋風機。皮帶輪可左右調向，因此不受左右方向的限制。

The ventilators can be applied with two directions of rotation, left hand and right hand. If the impeller rotates in a counterclockwise direction when viewed from the drive motor side, it is rotates clockwise when viewed from the drive pulley can be mounted on either side of the ventilator, so there is no significant limitation on the ventilator directionality.

### 出風口方向  Direction of Air Outlet

風機可如圖1所示製成四種出風方向。

As shown in Figure 1, the ventilators can be arranged to provide four different air outlet directions.

![Diagram](image.png)

**圖1 (FIGURE 1)**
# Construction of the Product

## 機殼

The scroll is made of hot galvanized steel sheet, and it is designed to provide an aerodynamically efficient flow path. The inlet is formed in one piece. The scroll plate is connected to the side plate by using a "Pittsburgh lock" type of system.

## 葉輪

The impeller is made of high grade galvanized steel sheet, and it is configured to provide a highly efficient and low noise aerodynamic flow path. The blade is fixed to the central disk plate and end plate using formed tabs. The impeller strength is sufficient for it to operate continuously at maximum power. The impellers of models 315 and larger use adjustable pull rods to increase their rigidity and to prevent any deformation when they are operating at high speed levels. The impellers are balanced before assembly in accordance with ISO 1940-1, G6.3 requirement.

## 框架

The frames use sections of steel to assure sufficient frame rigidity and they are finished with painting.

## 軸承

For the ventilators, self-aligning pillow block ball bearings are used, and these bearings are supplied with lubrication fittings.

## 軸

The shafts are made of C45 carbon steel bars. The shafts are rough machined and then stress relieved before final machining. The shaft diameters are machined to very accurate tolerance levels and they are fully checked to assure precision fits. They are coated after assembly in order to provide corrosion resistance.

## 出風口法蘭(選配)

The outlet flange is made of galvanized steel angle iron bars. The connections of the flange components to each other and to the scroll are made using rivet or self tapping screw. This maintains a good flange appearance while also providing sufficient strength and rigidity.
1\textsuperscript{st} law \[ \frac{Q_c}{Q} = \left[ \frac{D_c}{D} \right]^3 \left[ \frac{N_c}{N} \right] \frac{K_p}{K_{pc}} \]

2\textsuperscript{nd} law \[ \frac{P_{vc}}{P} = \left[ \frac{D_c}{D} \right]^2 \left[ \frac{N_c}{N} \right]^2 \frac{K_p}{K_{pc}} \frac{\rho_c}{\rho} \]

3\textsuperscript{rd} law \[ \frac{P_{vc}}{P} = \left[ \frac{D_c}{D} \right]^2 \left[ \frac{N_c}{N} \right]^2 \frac{\rho_c}{\rho} \]

4\textsuperscript{th} law \[ \frac{H_c}{H} = \left[ \frac{D_c}{D} \right]^3 \left[ \frac{N_c}{N} \right]^3 \frac{K_p}{K_{pc}} \frac{\rho_c}{\rho} \]

5\textsuperscript{th} law \[ P_{sc} = P_{tc} - P_{vc} \]

Where and are established per the 2\textsuperscript{nd} and 3\textsuperscript{rd} FAN LAW.

6\textsuperscript{th} law \[ \eta_{sc} = \eta_{tc} \left[ \frac{P_{sc}}{P_{tc}} \right] \]

Where \( P_{sc} \) is established using the 5\textsuperscript{th} FAN LAW and \( P_{tc} \) is established using the 2\textsuperscript{nd} FAN LAW. In the above, subscript \( c \) denotes the new operating condition, and:

\text{D = Impeller diameter} \quad \text{P}_{sc} = \text{Pressure, total, converted}
\text{D}_{c} = \text{Impeller diameter, converted} \quad \text{P}_{t} = \text{Pressure, velocity}
\text{N = Impeller rotational speed} \quad \text{P}_{vc} = \text{Pressure, velocity, converted}
\text{N}_{c} = \text{Impeller rotational speed, converted} \quad \text{H} = \text{Power}
\text{Q = Volume airflow rate} \quad \text{H}_{c} = \text{Power, converted}
\text{Q}_{c} = \text{Volume airflow rate, converted} \quad \text{P}_{s} = \text{Pressure, static}
\text{K}_{p} = \text{Compressibility coefficient} \quad \text{P}_{sc} = \text{Pressure, static, converted}
\text{K}_{pc} = \text{Compressibility coefficient, converted} \quad \eta_{sc} = \text{Efficiency, static, converted}
\text{P}_{t} = \text{Pressure, total} \quad \eta_{tc} = \text{Efficiency, total, converted}
顧客訂貨時須註明風機型號、轉速、風
量、風壓、出口風方向和旋轉方向以及
馬達型號規格。若需配備皮帶、皮帶
輪、馬達、安裝底座等附件或其它特殊
要求可在訂貨時提出。

在安裝前應對風機各部件進行檢查，對
葉輪、主軸和軸承等主要機件應重點詳
細檢查，若有損傷應修復後再安裝使
用。

風機安裝後應檢查機殼內是否有遺留的
工具、雜物等。

風機正式運轉前，須檢查馬達的轉向是
否符合風機轉向的要求。

風管與出風口之間可採用帆布接頭，接
頭不得拉緊。

風機安裝後用手或扳手轉動葉輪、檢查
是否過緊或碰撞現象，確認無這些現象
時方可進行試轉。

風機配用馬達功率是指在特定操作點下
風機軸功率加上機械損失與馬達容量安
全係數而言，並非出風口全敞開時所需
的功率。為防止馬達超功率運轉而燒
毀，嚴禁風機出風口或進風口不按管路
或未加外界任何阻力進行空運轉。

In placing an order for a ventilator, it is necessary
to indicate the type of ventilator required, the
operating speeds, the required air flow rates, the
required air discharge pressures, the direction of
rotation, and the direction of the air outlet pulleys,
an electric motor, a particular mounting frame, or
any other parts. If an electric motor is required,
then the type of electric motor and the electric
motor specifications need to be indicated on the
order.

Prior to installation, the ventilator should be
carefully inspected. Special care should be taken
in checking the shaft, impeller and bearings. If
there is an indication of any damage, then the
damaged parts should be repaired or replaced
before the ventilator is installed or operated.

After installation, it's should be inspected if there
are tools and extra matters remind in the scroll.

The rotation directions of the motor and impeller
should be checked to assure that they are
consistent with each other.

A flexible connector should be used between the
ventilator outlet flange and its mating pipe. The
bolts used to fasten the outlet flange to the pipe
should not be over-tightened.

Following the installation, the impeller should be
turned by hand or with the use of a wrench to make
sure that it turns freely. Once this is verified, the
ventilator can be operated normally.

The rated motor power as calculated herein is not
sufficient to drive the ventilator with an unrestricted
discharge flow path. Operating the ventilator with
an unrestricted discharge flow path will result in
flow rates that exceed the ventilator flow rate
capabilities, and such operation will quickly burn
out the motor. So care must be taken in operating
the ventilators to make sure that the maximum
rated flows, as provided on the performance charts
in this brochure, are not exceeded.
SB-560 (INLET SOUND POWER) N=650 RPM

風量  Air Volume  \( Q = 18000 \, \text{m}^3/\text{h} \)

風速  Outlet Velocity  \( V = 10 \, \text{m/s} \)

全壓  Total Pressure  \( P_t = 600 \, \text{Pa} \)

動壓  Dynamic Pressure  \( P_v = 60 \, \text{Pa} \)

靜壓  Static Pressure  \( P_s = P_t - P_v = 540 \, \text{Pa} \)

轉速  Fan Speed  \( N = 655 \, \text{rpm} \)

軸功率  Shaft Power  \( W = 5.0 \, \text{kW} \)

聲功率  Sound Power  \( L_w A = 81 \, \text{dB(A)} \)

總效率  Total Efficiency  \( \eta = 59.8\% \)

### Performance Table

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>LwIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>( P_s = 540 , \text{Pa} )</td>
<td>94</td>
<td>87</td>
<td>78</td>
<td>78</td>
<td>75</td>
<td>72</td>
<td>67</td>
<td>60</td>
<td>81</td>
</tr>
<tr>
<td>( Q = 5.0 , \text{CMS} )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance certified is for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA Standard 301.
The simplest relation between sound power level and sound pressure level is found for a free-field, non-directional sound source, as given by the following equation:

\[ L_p = L_w - 20 \log_{10}(r) - k + T \]

\( L_p \) = sound pressure level (dB) re 20 \( \mu \) Pa
\( L_w \) = sound pressure level (dB) re 10\(^{-12}\) watts
\( r \) = distance from the source in meters or feet
\( k \) = 11.0 dB for metric units and 0.5 dB for English units
\( T \) = correction factor for atmospheric pressure and temperature (dB)

(since most industrial noise problems are concerned with air at or near standard conditions, \( T \) is usually negligible and, therefore, equals 0)

### Example

Consider a point source having a \( L_w \) of 110 dB for a free-field. The sound pressure level at a distance of 10 feet from the source would be calculated as follows (since the source is found for a free-field, the equation for hemispherical radiation from a point source is used):

\[ L_p = L_w - 20 \log_{10}(r) - k \]

therefore:

\[ L_p = 110 \text{ dB} - 20 \log_{10}(20) \cdot 0.5 = 89.5 \text{ dB} \]
SB-560 (Inlet Sound Power)  N=650 rpm

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>LwA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ps = 510.3 Pa</td>
<td>93</td>
<td>87</td>
<td>78</td>
<td>78</td>
<td>76</td>
<td>74</td>
<td>69</td>
<td>62</td>
<td>82</td>
</tr>
<tr>
<td>Q = 3.78 CMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).
The A-weighted sound ratings shown have been calculated per AMCA Standard 301.
SB-630 (Inlet Sound Power)  N=650 rpm

| Center Frequency (Hz) | 63 | 125 | 250 | 500 | 1K  | 2K  | 4K  | 8K  | LwiÅ
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ps = 645.8 Pa</td>
<td>97</td>
<td>91</td>
<td>82</td>
<td>82</td>
<td>80</td>
<td>78</td>
<td>73</td>
<td>66</td>
<td>85</td>
</tr>
<tr>
<td>Q = 5.38 CMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

以上性能曲线是按方法B安装，即自由进气，出口装附风管。所需功率不包括额外损失。性能曲线不包括空气回流及附件的影响。性能图的功率单位是分贝，按AMCA 301标准。
<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>LwIA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ps</strong> = 820.3 Pa</td>
<td>100</td>
<td>94</td>
<td>85</td>
<td>85</td>
<td>83</td>
<td>81</td>
<td>76</td>
<td>69</td>
<td>89</td>
</tr>
<tr>
<td><strong>Q</strong> = 7.69 CMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301.
SB-800 (Inlet Sound Power)  N=450 rpm

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>Lw(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P_s = 535.2 Pa</td>
<td>93</td>
<td>85</td>
<td>81</td>
<td>79</td>
<td>77</td>
<td>74</td>
<td>69</td>
<td>63</td>
<td>82</td>
</tr>
<tr>
<td>Q = 3.78 CMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301.
**SB-900 (Inlet Sound Power)**  \( N = 450 \text{ rpm} \)

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>LwIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>( P_s = 677.3 \text{ Pa} )</td>
<td>97</td>
<td>89</td>
<td>85</td>
<td>83</td>
<td>81</td>
<td>78</td>
<td>73</td>
<td>67</td>
<td>86</td>
</tr>
<tr>
<td>( Q = 5.38 \text{ CMS} )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The performance ratings shown have been calculated per AMCA Standard 301. Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

以上性能曲线是按方法B安装，即自由进气，出口接
接风管，所测功率不包括传动损失。性能曲线不包括
空气回流上附件的影响。性能图上的声功率单位是
分贝，按AMCA 301标准。
SB-1000 (Inlet Sound Power)  
N=450 rpm

<table>
<thead>
<tr>
<th>Center Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1K</th>
<th>2K</th>
<th>4K</th>
<th>8K</th>
<th>LwiA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ps = 836.2 Pa</td>
<td>100</td>
<td>92</td>
<td>88</td>
<td>86</td>
<td>84</td>
<td>81</td>
<td>76</td>
<td>70</td>
<td>89</td>
</tr>
<tr>
<td>Q = 7.37 CMS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Performance certified for installation type B, free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301.
### 尺寸表 (單位: mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>560</td>
<td>795</td>
<td>795</td>
<td>715</td>
<td>715</td>
<td>1056</td>
<td>795</td>
<td>850</td>
<td>1014</td>
</tr>
<tr>
<td>630</td>
<td>881</td>
<td>881</td>
<td>901</td>
<td>901</td>
<td>1142</td>
<td>881</td>
<td>953</td>
<td>1146</td>
</tr>
<tr>
<td>710</td>
<td>978</td>
<td>978</td>
<td>898</td>
<td>898</td>
<td>1321</td>
<td>978</td>
<td>1080</td>
<td>1292</td>
</tr>
<tr>
<td>800</td>
<td>1107</td>
<td>1087</td>
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SB 102, March 2013