

**INFINAIR™**

**INFINAIR ARABIA CO. LTD.**



# INFINAIR FANS

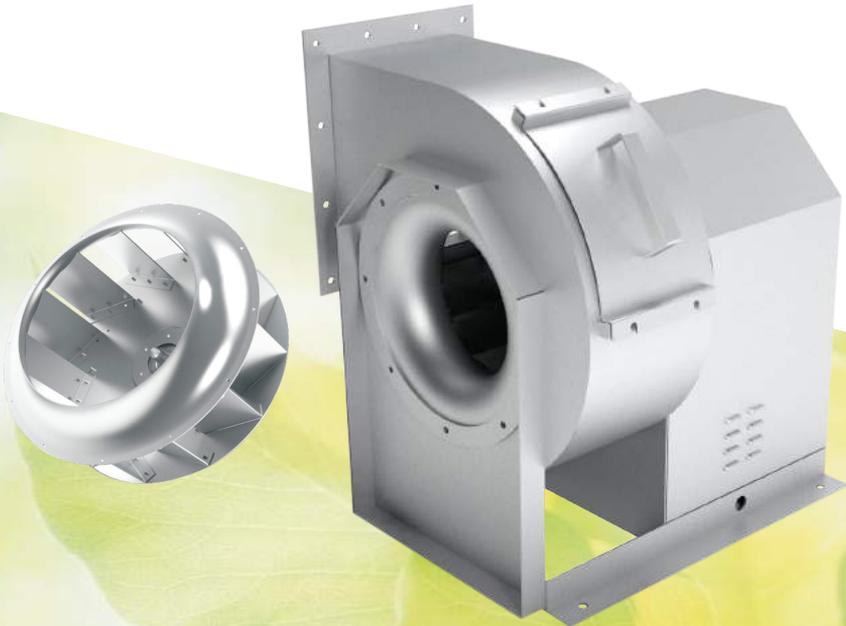
IS IT RELIABLE? OF COURSE! WE ARE INFINAIR FANS, ARE YOU?

# CUS

**Centrifugal Utility (SISW)**



UL Listed Fans  
Standard UL 705:2017



**Utility Centrifugal Fans  
Sizes 300 mm - 1000 mm**

INFINAIR ARABIA COMPANY LTD. certifies that the Centrifugal Utility Fans SISW (CUS) 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. The AMCA certified ratings seal applies to the FEI for all models of CUS



QUALITY ASSURANCE



ENVIRONMENTAL



HEALTH & SAFETY

## Management Messages

- INFINAIR ARABIA is a pioneer company available in the Kingdom of Jordan. It has been established to support all customers who are looking for engineering solutions in ventilation industry. INFINAIR is designing, producing, selling and servicing the diversified types of fans. INFINAIR CO is integrating **ISO9001 (Quality Management System)** in all departments to secure the accuracy and quality at work. INFINAIR factory is applying **ISO14001 (Environmental Quality Management)** and **ISO 45001 (Occupational Health and Safety Management)**. INFINAIR ISO - IMS system guaranty high quality products to customers. INFINAIR fans are certified by **AMCA (American Movement and Control Association)** for air performance and sound. INFINAIR fans are **ANSI/UL Listed** fans. INFINAIR ARABIA CO has utilized high energy saving solutions at early stage, the fans are saving power and certified under **FEI (Fans Energy Index) by AMCA**. The location of Jordan enables INFINAIR to supply the fans at shortest delivery with lowest logistic cost to Middle East countries. INFINAIR warranty and services program help the customers be happy and satisfied always by having the best products in their hands.



## Company Info

- **INFINAIR ARABIA COMPANY LTD** is the first company in Kingdom of Jordan for producing ventilation industries specialized in fans production for HVAC objectives and Industrial purposes.

It has been founded by the worldwide **INFINAIR CORP** that has been established in 2003. **INFINAIR CO** is a high technology brand.

**INFINAIR ARABIA** is targeting to keep providing very high technology product, new solutions to the market, high energy saving fans, fast delivery to MENA, customer care, service after sales, new innovation ideas help customers to pay less cost with best solutions.

- **Factory Address:**

Kingdom of Jordan, Amman, Mowaqar Free Zone

- **Sales & Service Office:**

**INFINAIR ARABIA CO. LTD** Sales offices are covering GCC and Africa:

- Jordan Sales Head Office and Technical Support - Amman
- Saudi Arabia, United Arab Emirate, Bahrain, Oman, Qatar and Iraq

- **Company Vision:**

To be the most trusted brand in ventilation industry in the World.

- **Company Mission:**

To Provide reliable, convenient air movement controls, operations and services.

- **Awards and Achievements:**

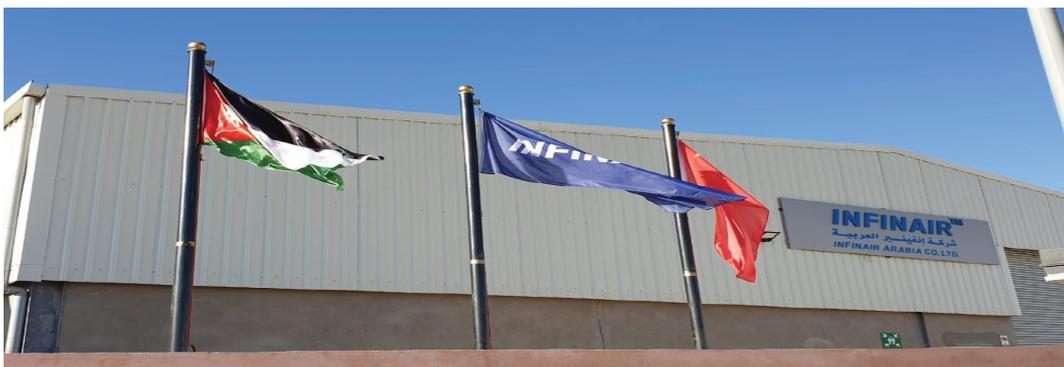
High-tech Enterprise

Renowned trademark:

ISO 9001, ISO 14001 and ISO 45001 Management Certificates

- **Technological Strength of INFINAIR Brand:**

Most of the **INFINAIR** products are tested and certified by many international certification bodies The Strength of **INFINAIR ARABIA** comes from a strong JV with **INFINAIR CORPORATION**



### INFINAIR Intelligent Ventilation Technology

- **Smart Needs Identification:**  
It can dynamically adjust the operation target to the changing load and environment.
- **Intelligent Adjustment:**  
The use of inverter or EC smart control technology can make the fans achieve best results under the control of the intelligent speed regulation system.
- **Intelligent Real-time Information:**  
Individual workstations are linked to the central control system through internet or local area network.
- **Intelligent Detection system:**  
Reliable sensors can detect early symptoms and notify the user, ensuring stable operation.

### INFINAIR's After-sales Service

- **Joint Research & Development**  
The Joint R&D can provide customer the necessary support and guidance during the initial research progress.
- **Customization**  
Our products are fully customization.  
We are able to satisfy customer requirements on an individual basis.
- **Adequate After-sales Service**

### Green Smart Technology

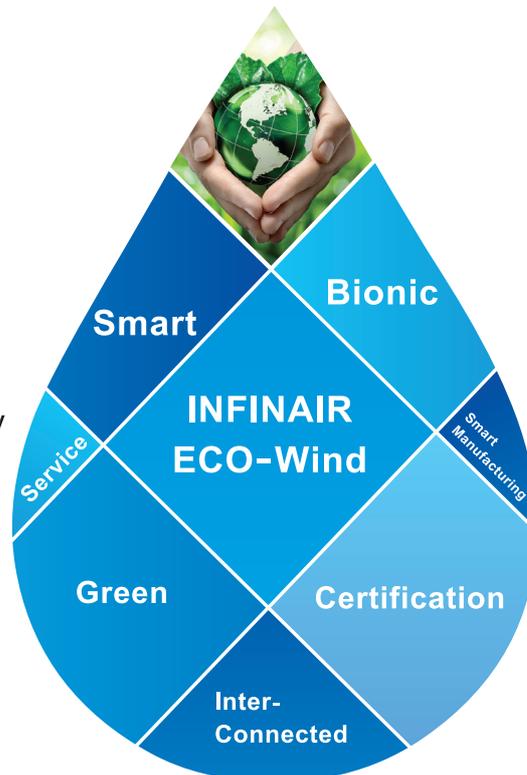
- **CFD Simulation & Analysis**  
A computer-aided air movement simulation model which can calculate the efficiency of the fan based on the number of blades, blade angle, width, and sound level.
- **Finite Element Analysis Technology**  
To analyze and provide accurate prediction of how material is likely to respond when subjected to structural and/or thermal loads.

### INFINAIR Bionic Technology

- **INFINAIR's Bionic Energy Conservation:**  
We develop energy saving products by observing behaviors from the animal kingdom. How can birds fly thousands of miles with extremely low energy consumption?
- **INFINAIR Bionic Sound Reduction:**  
Why Owls can fly so silently? Even mice are not being able to detect their approach?
- **The research and development of INFINAIR:**  
products are heavily inspired by the animal evolution over the past millenniums.  
We have learn how energy and sound are being able to conserve from their amazing changes.

### INFINAIR's Intelligent Fabrication

- Intelligent fabrication process
- Power test, dynamic balancing test and communication test performed on the production line.
- Robotic welding technology
- Lean production
- 6 $\Sigma$  Systems



### Certifications and Tests

- **Most of the products are certified by:**  
SMOKE, ATEX, AMCA
- **Performance and Reliability Tests:**  
Airflow, Air Pressure, Power, Sound Level, Temperature Durability, Salt Spray and Water Proof Test, etc.

### Connectivity

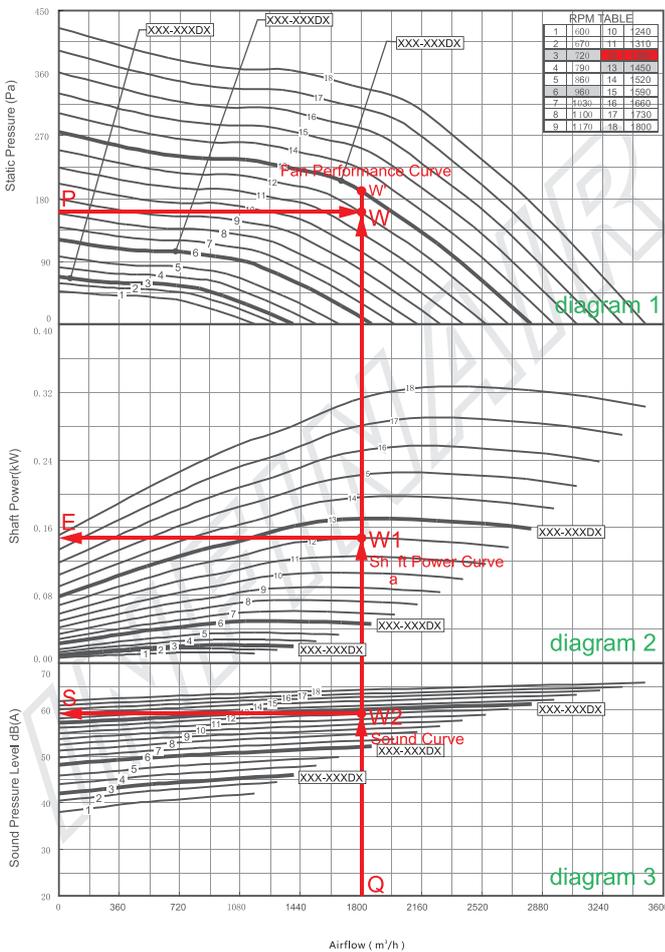
- Matrix Connection
- Central Connection
- Terminal Connection



# Performance Curves - Technical

Example:

Airflow: 1,800m<sup>3</sup>/h, Static pressure: 160 Pa



- Step One:** A vertical line is drawn from the given airflow (Point Q: 1,800m<sup>3</sup>/h) and a horizontal line from the given static pressure (Point P: 160 Pa). The intersection point (Point W) is the operating point. Then find a performance curve closest to Point W (in this case, it is Static Pressure Curve 12 at RPM 1,380 as shown).
- 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 0.15 kW) represents the actual power consumption. So a 0.25 kW motor shall be used.
- Step Three:** From the intersection point (Point W2) between the vertical line and Sound Curve is drawn a horizontal line in Diagram 3. Its intersection point with the Sound Pressure Level axis (Point S: about 59 dB (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 RTC-300-0.25 of belt drive type at 1,380 RPM. If fans of lower power or lower sound 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 1,800 m<sup>3</sup>/h at 180 Pa static pressure is needed, it is easy to know that Point W' is very close to Curve 13 in boldface (representing the fan of direct drive type at 1,450 RPM and 4-pole motor). The arrow leads to model RTC -300D4 equipped with a 0.25 kW motor, which has low price performance ratio.

## Fan Law 1

Airflow delivered by fan varies in direct proportion to the change in its rotational speed

$$CFM_2 = \frac{RPM_2}{RPM_1} \times CFM_1$$

## Fan Law 2

Static Pressure developed by a fan varies with the square of the change in its rotational speed

$$SP_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 \times SP_1$$

## Fan Law 3

Power required by a fan varies with the cube of the change in its rotational speed

$$BHP_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 \times BHP_1$$



# Unit Conversions

| AREA            |                 |                 |
|-----------------|-----------------|-----------------|
| MULTIPLY        | BY              | TO OBTAIN       |
| in <sup>2</sup> | 0.006944        | ft <sup>2</sup> |
|                 | 0.0006452       | m <sup>2</sup>  |
|                 | 645.16          | mm <sup>2</sup> |
| ft <sup>2</sup> | 144             | in <sup>2</sup> |
|                 | 0.09290         | m <sup>2</sup>  |
|                 | 92903           | mm <sup>2</sup> |
| m <sup>2</sup>  | 10.76           | ft <sup>2</sup> |
|                 | 1550            | in <sup>2</sup> |
|                 | 10 <sup>6</sup> | mm <sup>2</sup> |

| DENSITY            |         |                    |
|--------------------|---------|--------------------|
| MULTIPLY           | BY      | TO OBTAIN          |
| lb/ft <sup>3</sup> | 16.02   | kg/m <sup>3</sup>  |
| kg/m <sup>3</sup>  | 0.06243 | lb/ft <sup>3</sup> |

| LENGTH   |          |           |
|----------|----------|-----------|
| MULTIPLY | BY       | TO OBTAIN |
| ft       | 12       | in        |
|          | 0.3048   | m         |
|          | 304.80   | mm        |
| in       | 0.0833   | ft        |
|          | 0.02540  | m         |
|          | 25.4     | mm        |
| m        | 3.2808   | ft        |
|          | 39.37    | in        |
|          | 1000     | mm        |
| mm       | 0.003281 | ft        |
|          | 0.03937  | in        |
|          | 0.001    | m         |

| MASS            |          |                 |
|-----------------|----------|-----------------|
| MULTIPLY        | BY       | TO OBTAIN       |
| lb <sub>m</sub> | 16       | oz              |
|                 | 453.59   | grams           |
|                 | 0.45359  | kg              |
| oz              | 0.0625   | lb <sub>m</sub> |
|                 | 28.35    | grams           |
|                 | 0.0283   | kg              |
| grams           | 0.002205 | lb <sub>m</sub> |
|                 | 0.03527  | oz              |
|                 | 0.001    | kg              |
| kg              | 2.2046   | lb <sub>m</sub> |
|                 | 35.274   | oz              |
|                 | 1000     | grams           |

| MOMENT OF INERTIA  |           |                    |
|--------------------|-----------|--------------------|
| MULTIPLY           | BY        | TO OBTAIN          |
| lb-in <sup>2</sup> | 0.0069    | lb-ft <sup>2</sup> |
|                    | 0.0002926 | kg-m <sup>2</sup>  |
| lb-ft <sup>2</sup> | 144       | lb-in <sup>2</sup> |
|                    | 0.04214   | kg-m <sup>2</sup>  |
| kg-m <sup>2</sup>  | 23.73     | lb-ft <sup>2</sup> |
|                    | 3417.2    | lb-in <sup>2</sup> |

| POWER     |           |           |
|-----------|-----------|-----------|
| MULTIPLY  | BY        | TO OBTAIN |
| HP        | 33000     | ft-lb/min |
|           | 550       | ft-lb/s   |
|           | 745.7     | W         |
|           | 0.7457    | kW        |
|           | 76.04     | kg-m/sec  |
| ft-lb/min | 0.0000303 | HP        |
|           | 0.0167    | ft-lb/s   |
|           | 0.0226    | W         |
|           | 0.0023    | kg-m/sec  |
| ft-lb/s   | 0.0018    | HP        |
|           | 60        | ft-lb/min |
|           | 1.3558    | W         |
| W         | 0.1388    | kg-m/sec  |
|           | 0.00134   | HP        |
|           | 44.254    | ft-lb/min |
|           | 0.73756   | ft-lb/s   |
| kg-m/sec  | 0.1019    | kg-m/sec  |
|           | 0.01      | hp        |
|           | 434.78    | ft-lb/min |
|           | 7.20      | ft-lb/s   |
|           | 9.81      | W         |

| PRESSURE |          |           |
|----------|----------|-----------|
| MULTIPLY | BY       | TO OBTAIN |
| psi      | 27.728   | in-wg     |
|          | 2.036    | in-Hg     |
|          | 6894.8   | Pa        |
|          | 704.28   | mm-wg     |
|          | 51.715   | mm-Hg     |
| in-wg    | 0.06805  | atm       |
|          | 0.03607  | psi       |
|          | 0.07343  | in-Hg     |
|          | 248.66   | Pa        |
|          | 25.4     | mm-wg     |
| in-Hg    | 1.8651   | mm-Hg     |
|          | 0.002454 | atm       |
|          | 0.49115  | psi       |
|          | 13.619   | in-wg     |
|          | 3386.4   | pa        |

|       |           |       |
|-------|-----------|-------|
| Pa    | 345.91    | mm-wg |
|       | 25.4      | mm-Hg |
|       | 0.03342   | atm   |
|       | 0.000145  | psi   |
|       | 0.004022  | in-wg |
| mm-wg | 0.0002953 | in-Hg |
|       | 0.10215   | mm-wg |
|       | 0.007501  | mm-Hg |
|       | 0.0000099 | atm   |
|       | 0.00142   | psi   |

|       |           |       |
|-------|-----------|-------|
| mm-Hg | 0.03937   | in-wg |
|       | 0.002891  | in-Hg |
|       | 9.7898    | Pa    |
|       | 0.07343   | mm-Hg |
|       | 0.0000966 | atm   |
| atm   | 0.01934   | psi   |
|       | 0.53616   | in-wg |
|       | 0.03937   | in-Hg |
|       | 133.32    | Pa    |
|       | 13.619    | mm-wg |

|       |          |       |
|-------|----------|-------|
| atm   | 0.001316 | atm   |
|       | 14.696   | psi   |
|       | 407.48   | in-wg |
|       | 29.921   | invHg |
|       | 101300   | Pa    |
| mm-wg | 10350    | mm-wg |
|       | 760      | mm-Hg |

| ROTATING SPEED |        |           |
|----------------|--------|-----------|
| MULTIPLY       | BY     | TO OBTAIN |
| RPM            | 0.0167 | rps       |
|                | 0.0167 | Hertz     |
| RPS            | 60     | rpm       |
| Hertz          | 1      | Hertz     |
|                | 60     | rpm       |
|                | 1      | rps       |

| TORQUE   |         |           |
|----------|---------|-----------|
| MULTIPLY | BY      | TO OBTAIN |
| lb-in    | 0.083   | lb-ft     |
|          | 0.11298 | N-m       |
| lb-ft    | 12      | lb-in     |
|          | 1.3558  | N-m       |
| N-m      | 0.73756 | lb-ft     |
|          | 8.8507  | lb-in     |

**TEMPERATURE**  
 $^{\circ}\text{F} = 9/5 \text{ C} + 32$   
 $^{\circ}\text{C} = 5/9 (\text{F} - 32)$

| VELOCITY |          |           |
|----------|----------|-----------|
| MULTIPLY | BY       | TO OBTAIN |
| fpm      | 0.0167   | fps       |
|          | .2       | in/sec    |
|          | 0.005080 | m/s       |
|          | 0.30480  | m/min     |
| fps      | 60       | fpm       |
|          | 12       | in/sec    |
|          | 0.30480  | m/s       |
|          | 18.288   | m/min     |
| in/sec   | 5        | fpm       |
|          | 0.0833   | fps       |
|          | 0.02540  | m/s       |
|          | 1.524    | m/min     |
| m/s      | 196.85   | fpm       |
|          | 3.2808   | fps       |
|          | 39.37    | in/sec    |
|          | 60       | m/min     |
| m/min    | 3.2808   | fpm       |
|          | 0.05468  | fps       |
|          | 0.65617  | in/sec    |
|          | 0.0167   | m/s       |

| VOLUME          |           |                 |
|-----------------|-----------|-----------------|
| MULTIPLY        | BY        | TO OBTAIN       |
| ft <sup>3</sup> | 1728      | in <sup>3</sup> |
|                 | 28.317    | l               |
|                 | 0.02832   | m <sup>3</sup>  |
| in <sup>3</sup> | 0.000579  | ft <sup>3</sup> |
|                 | 0.01639   | l               |
|                 | 0.0000164 | m <sup>3</sup>  |
| l               | 0.03531   | ft <sup>3</sup> |
|                 | 61.024    | in <sup>3</sup> |
|                 | 0.001     | m <sup>3</sup>  |
| m <sup>3</sup>  | 35.315    | ft <sup>3</sup> |
|                 | 61024     | in <sup>3</sup> |
|                 | 1000      | l               |

| VOLUME FLOW         |           |                     |
|---------------------|-----------|---------------------|
| MULTIPLY            | BY        | TO OBTAIN           |
| CFM                 | 0.0004719 | m <sup>3</sup> /sec |
|                     | 0.02832   | m <sup>3</sup> /min |
|                     | 1.6990    | m <sup>3</sup> /hr  |
|                     | 0.47195   | l/s                 |
|                     | 28.317    | l/min               |
| m <sup>3</sup> /sec | 2118.9    | CFM                 |
|                     | 60        | m <sup>3</sup> /min |
|                     | 3600      | m <sup>3</sup> /hr  |
|                     | 1000      | l/s                 |
|                     | 60000     | l/min               |
| m <sup>3</sup> /min | 35.315    | CFM                 |
|                     | 0.0167    | m <sup>3</sup> /sec |
|                     | 60        | m <sup>3</sup> /hr  |
|                     | 16.667    | l/s                 |
|                     | 1000      | l/min               |
| m <sup>3</sup> /hr  | 0.58858   | CFM                 |
|                     | 0.0167    | m <sup>3</sup> /min |
|                     | 0.0003    | m <sup>3</sup> /sec |
|                     | 0.2778    | l/s                 |
|                     | 16.667    | l/min               |
| l/s                 | 2.1189    | CFM                 |
|                     | 0.001     | m <sup>3</sup> /sec |
|                     | 0.06      | m <sup>3</sup> /min |
|                     | 3.6       | m <sup>3</sup> /hr  |
|                     | 60        | l/min               |
| l/min               | 0.03531   | CFM                 |
|                     | 0.000016  | m <sup>3</sup> /sec |
|                     | 0.001     | m <sup>3</sup> /min |
|                     | 0.06      | m <sup>3</sup> /hr  |
|                     | 0.0167    | l/s                 |





UL 705:2017 Listed Fans  
High Quality Products  
Aluminum Construction  
Less Sound  
Quiet Operation  
Low Power  
Consumption



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# CUS

**Centrifugal Utility (SISW)  
Sizes 300 mm - 1000 mm**



## Highlights of the 4<sup>th</sup> Generation of Wind-Surfer™ wheel

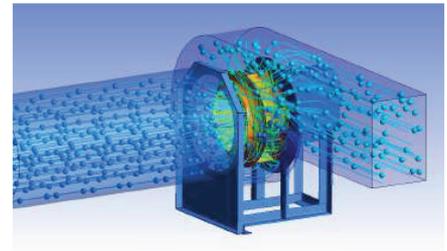
### ● Highlights of the 4<sup>th</sup> Generation of Wind-Surfer™ wheel

- Excellent sound and air performance
- Wide performance range of high efficiency and non-overload
- The balance quality grade as high as G2.5 (Just G6.3 for general products)



### ● Air Performance Design

- Optimized design through CFD flow field simulation and repeated tests
- Wheel cone and inlet cone in conformity with flow field characteristics
- Flow passages control: airflow regulated well through precise synergy
- Optimized mounting angle for blades

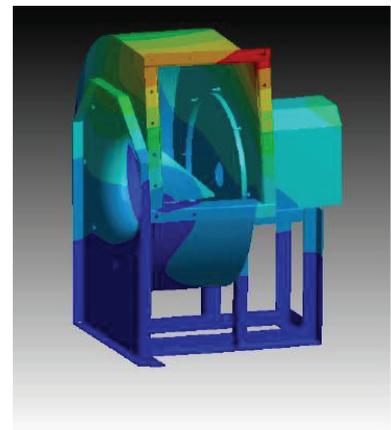


### ● Structural Design

- Stress analysis by FEA method for better performance
- Various additional strengthening for different specifications for greater reliability
- Riveting technology used to avoid stress

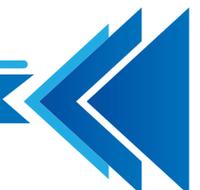
### ● Advanced Process

- Wheel cone and inlet cone formed by spinning to ensure good air performance
- Inlet Cone: replacing the inlet bell to ensure smooth airflow
- Blades: formed by punching to ensure quality
- Tooling: dedicated fixtures to ensure the precise mounting position of blades



### ● Wheel Improved

- Continuous Improvement: upgraded to the 4<sup>th</sup> generation of wheel
- Compared with the 3<sup>rd</sup> generation: overall performance improved by 5-10 %
- Compared with the 3<sup>rd</sup> generation: overall sound level reduced by 2-3 dB(A)



## ● **Wide Performance Range**

- Wheel Diameter: 300~ 1,000 mm
- Wide RPM and performance ranges offering more choices in model selection
- The number of turns adjustable, pulley and motor replaceable: performance range regulated for better adaptability

## ● **Compact Structure**

- Belt drive: AMCA arrangement 10 (motor right under shaft); direct drive: AMCA arrangement 4
- The compact structural design reducing space
- Belt length reduced and belt life extended
- Low center height of scroll leaving more space for duct installation

## ● **Scroll Turned for Variable Discharge Directions at Jobsite**

- The scroll is fixed by 8 equally spaced bolts. Discharge directions can be adjusted at the jobsite within the allowable angle range.

## ● **AMCA Seal: for Sound and Air Performance**

- CUS fans certified by AMCA for Sound and Air Performance
- AMCA Seal for Sound and Air Performance tagged on CUS fans

## ● **Suitable for Outdoor Installation**

- Rain cover available to protect the whole drive unit
- Total protection from sunlight, rain and snow affecting rotating parts
- Fewer impacts from climate factors on the durability and safety of fans

## ● **AMCA Spark Resistant Construction Option**

- Supply Spark A and Spark B construction option according to AMCA99-10
- Spark A: Housing is aluminum, wheel and inlet cone are aluminum
- Spark B: Wheel and inlet cone are aluminum

## ● **Continuously Welded Housing**

- The continuously welded housing has sufficient structural rigidity
- It is more suitable for ventilation of moist air compared with scroll manufactured with lock seam
- The accumulated dropping liquid inside the scroll will not result in leakage
- It is suitable for exhausting air containing condensed water and kitchen fumes

## ● **Easy Maintenance**

- Access doors are available on both sides of the motor
- With one screw driver, the electrical components can be checked and repaired
- Scroll access door is provided as a standard accessory



# Optional Accessories

## ● Inlet/Outlet Safety Guard

- Safety guard of high strength is mounted at the inlet/ outlet to prevent any foreign objects from entering the fan and ducts. Its mesh is dense enough to avoid injuries. The safety guard can be selected and ordered based on actual needs.

## ● Rain Cover

- Standard belt drive CUS fans that include a shaft/bearing guard and belt guard are for indoor installation. For outdoor installation, the rain cover shall be used to shelter motor, pulley, bearing and other rotating parts from sunlight, rain and snow. There shall also be a motor cover for CUS fans of direct drive type when used outdoors.

## ● Drain

- It is located at the bottom of the scroll to help discharge the liquid waste, such as condensed water and grease.

## ● Vibration Isolators

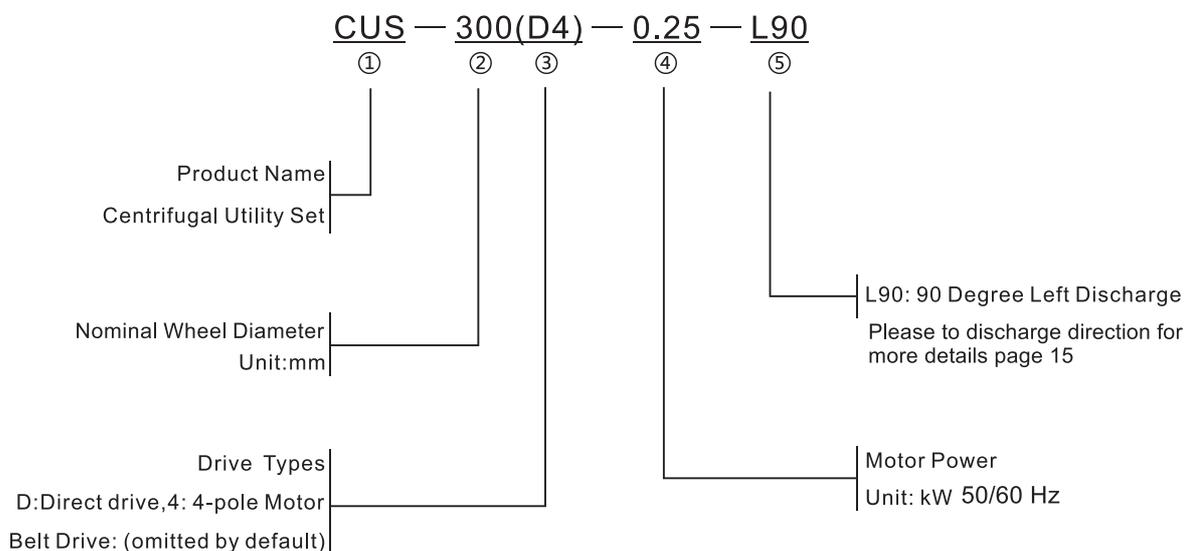
- Neoprene and spring isolators can be chosen based on needs. Vibration isolators provided by INFINAIR have been rigorously tested to effectively reduce vibrations.

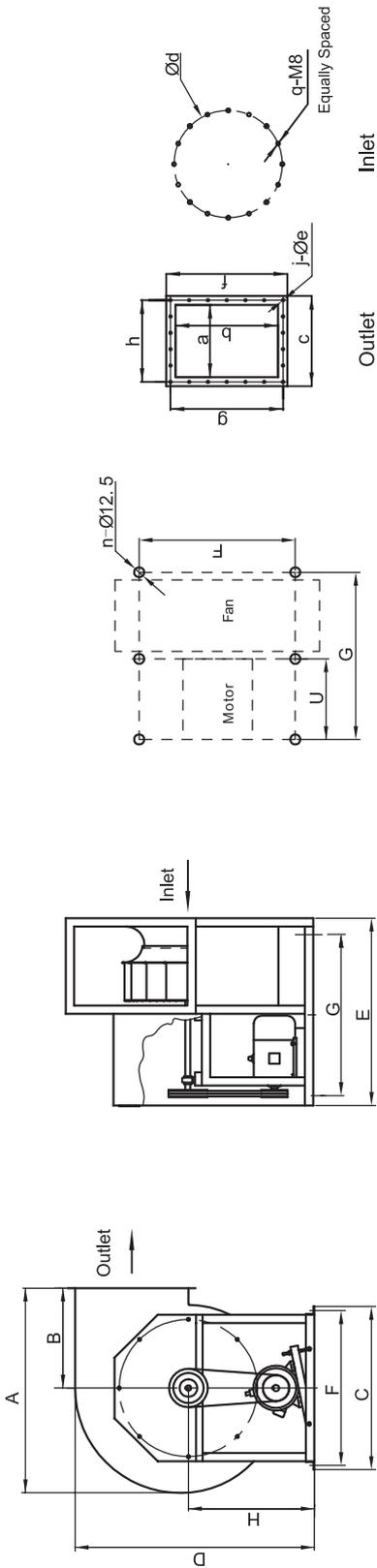
## ● Inlet and Outlet Companion Flanges

- They are for flexible connection between fans and ducts of different diameters and center heights. Also, the flanges help avoid vibrations affecting the whole system.

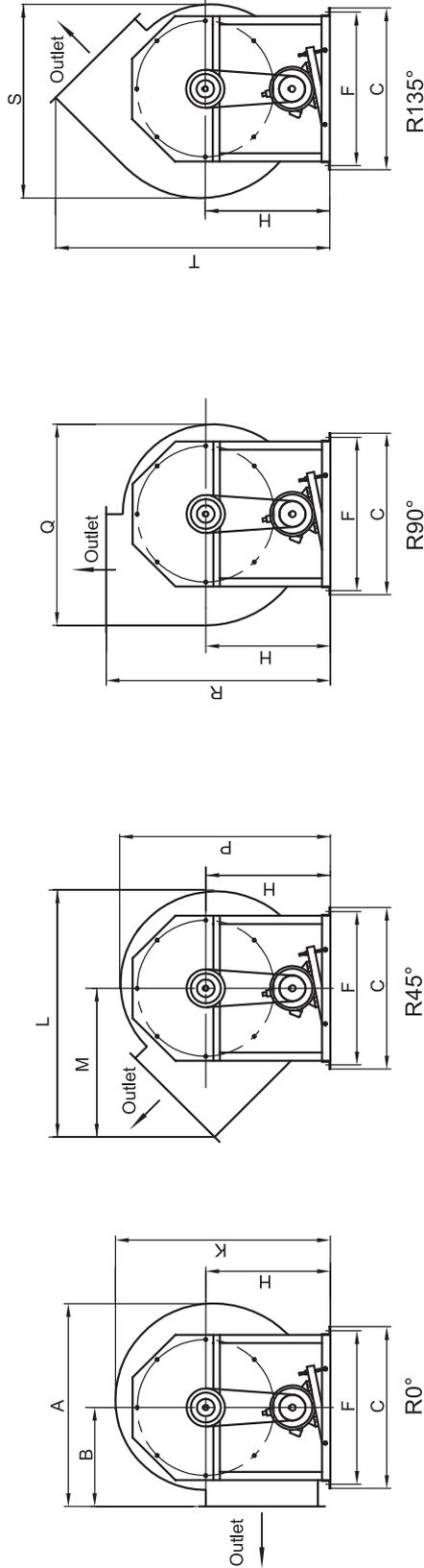
## ● Extended Grease Tube (for belt drive type only)

- The grease tube is extended to the exterior part of the fan so that maintenance workload gets reduced as the bearing guard does not need to be removed for grease filling.



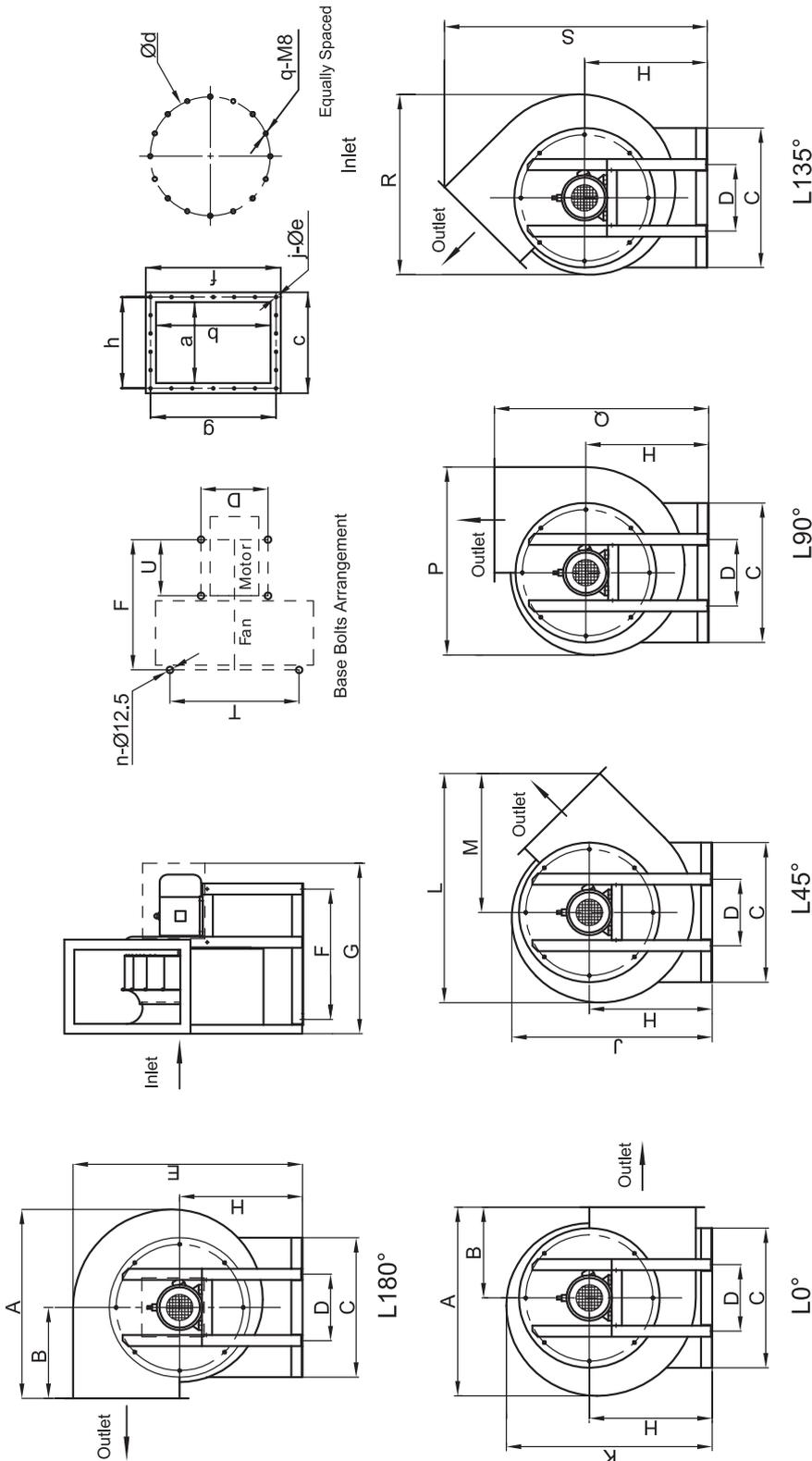


Base Bolts Arrangement



| Model   | A    | B   | C    | D    | E    | F    | G    | H   | K    | L    | M    | P    | Q    | R    | S    | T    | U   | a   | b   | c   | d    | e  | f   | g       | h       | j  | n | q  | Weight (Kg) |
|---------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|------|----|-----|---------|---------|----|---|----|-------------|
| CUS-300 | 528  | 250 | 490  | 688  | 625  | 440  | 500  | 380 | 608  | 650  | 398  | 587  | 536  | 630  | 507  | 778  | 0   | 215 | 305 | 295 | 350  | 9  | 385 | 3x115   | 3x85    | 12 | 4 | 8  | 49          |
| CUS-425 | 730  | 335 | 650  | 938  | 740  | 600  | 575  | 510 | 830  | 900  | 540  | 812  | 748  | 845  | 718  | 1050 | 0   | 300 | 428 | 380 | 495  | 9  | 505 | 4x117.5 | 3x115   | 14 | 4 | 8  | 76          |
| CUS-500 | 850  | 410 | 730  | 1028 | 845  | 690  | 710  | 550 | 920  | 1035 | 628  | 898  | 848  | 960  | 815  | 1178 | 355 | 335 | 475 | 425 | 570  | 11 | 565 | 5x105   | 3x128.5 | 16 | 6 | 8  | 98          |
| CUS-575 | 965  | 460 | 800  | 1158 | 900  | 750  | 725  | 615 | 1040 | 1168 | 708  | 1015 | 968  | 1075 | 930  | 1323 | 363 | 380 | 540 | 480 | 645  | 11 | 640 | 5x119   | 3x145   | 16 | 6 | 8  | 150         |
| CUS-675 | 1102 | 525 | 910  | 1308 | 1010 | 860  | 825  | 690 | 1185 | 1344 | 808  | 1155 | 1113 | 1215 | 1070 | 1498 | 413 | 430 | 615 | 530 | 750  | 11 | 715 | 5x134   | 4x121.5 | 18 | 6 | 16 | 215         |
| CUS750  | 1235 | 600 | 980  | 1430 | 1135 | 930  | 950  | 750 | 1296 | 1490 | 905  | 1266 | 1225 | 1350 | 1182 | 1655 | 475 | 475 | 675 | 575 | 825  | 11 | 775 | 5x145   | 5x105   | 20 | 6 | 16 | 315         |
| CUS-900 | 1435 | 700 | 1130 | 1628 | 1208 | 1080 | 1000 | 850 | 1498 | 1737 | 1046 | 1468 | 1426 | 1550 | 1384 | 1896 | 500 | 545 | 775 | 645 | 975  | 11 | 875 | 6x137.5 | 5x119   | 22 | 6 | 16 | 440         |
| CUS1000 | 1573 | 765 | 1230 | 1780 | 1368 | 1180 | 1125 | 925 | 1640 | 1905 | 1145 | 1608 | 1570 | 1690 | 1525 | 2070 | 563 | 595 | 850 | 695 | 1075 | 11 | 950 | 6x150   | 5x129   | 22 | 6 | 16 | 550         |

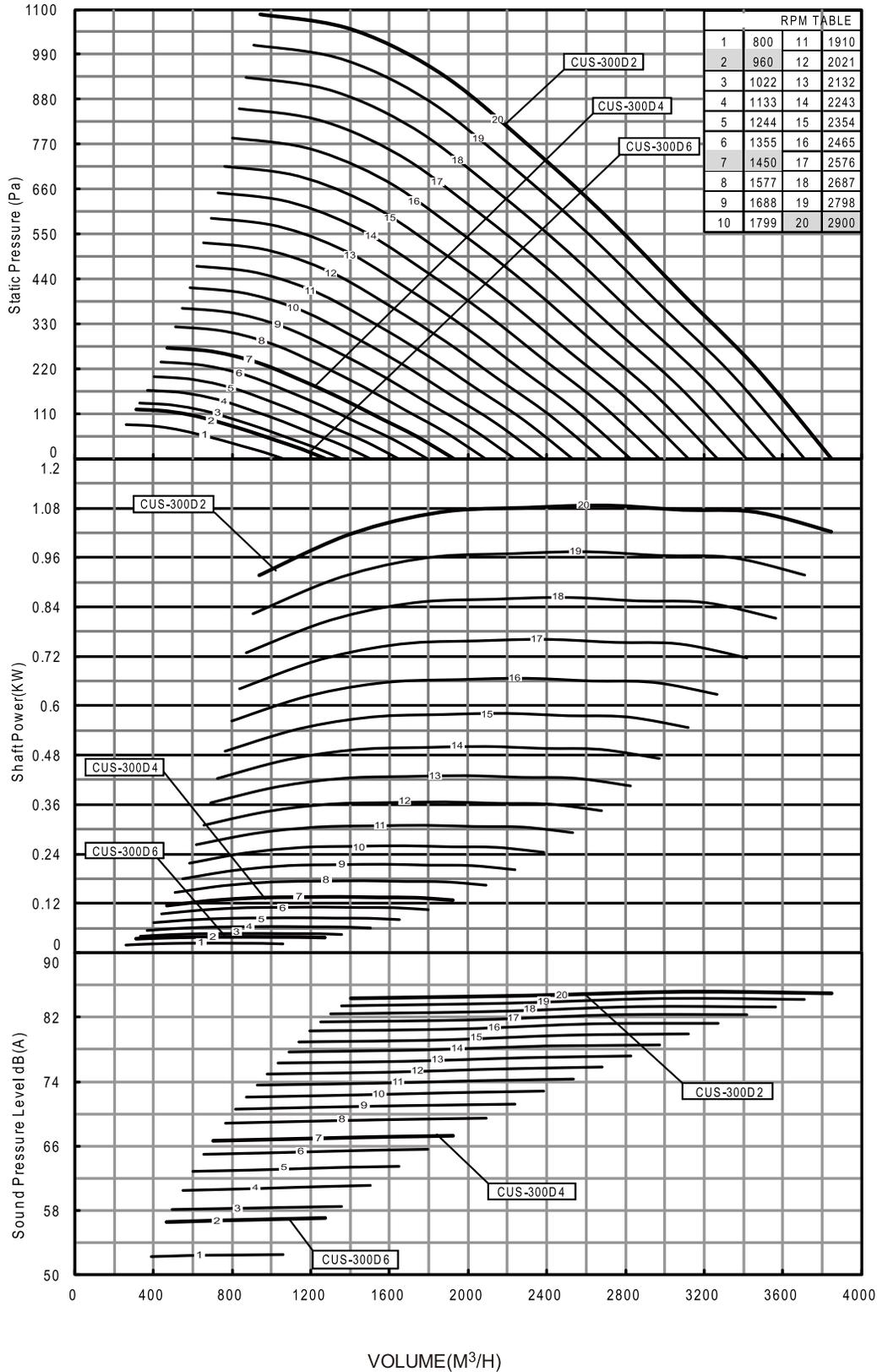
Note ● The motor weight is not included in the above table. ● Right rotations are in symmetry with left rotations and the dimensions are the same.



| Model     | A    | B   | C    | D   |     |      | E    | F    |      |      | G    | H    | J    | K    | L    | M    | P    | Q    | R    | S    | T   | U   |     | Kg   |     |     |         |         |         |         |    |     |     |     |
|-----------|------|-----|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|-----|-----|---------|---------|---------|---------|----|-----|-----|-----|
|           |      |     |      | 2P  | 4P  | 6P   |      | 8P   | 6P   | 8P   |      |      |      |      |      |      |      |      |      |      |     |     |     |      |     |     |         |         |         |         |    |     |     |     |
| CUS-300D  | 528  | 250 | 490  | 280 | 230 | 230  | 688  | 390  | 390  | 390  | 550  | 380  | 587  | 608  | 650  | 398  | 536  | 630  | 507  | 778  | 340 | 215 | 305 | 295  | 350 | 9   | 385     | 3x115   | 3x85    | 12      | 4  | 8   | 46  |     |
| CUS-425D  | 730  | 335 | 650  | 270 | 250 | 250  | 938  | 460  | 460  | 460  | 650  | 510  | 812  | 830  | 900  | 540  | 748  | 845  | 718  | 1050 | 500 | 300 | 428 | 380  | 495 | 9   | 505     | 4x117.5 | 3x115   | 14      | 4  | 8   | 72  |     |
| CUS-500D  | 850  | 410 | 730  | 300 | 270 | 250  | 1028 | 580  | 500  | 500  | 750  | 550  | 898  | 920  | 1035 | 628  | 848  | 960  | 815  | 1178 | 580 | 335 | 475 | 425  | 570 | 11  | 565     | 5x105   | 3x128.5 | 16      | 6  | 8   | 93  |     |
| CUS-575D  | 965  | 460 | 800  | 300 | 270 | 1158 | 1158 | 570  | 570  | 570  | 800  | 615  | 1015 | 1040 | 1168 | 708  | 968  | 1075 | 930  | 1323 | 650 | 380 | 540 | 480  | 645 | 11  | 640     | 5x119   | 3x145   | 16      | 6  | 8   | 140 |     |
| CUS-675D  | 1102 | 525 | 910  | 380 | 380 | 1308 | 1308 | 730  | 680  | 920  | 690  | 1155 | 1185 | 1344 | 808  | 1113 | 1215 | 1070 | 1498 | 750  | 270 | 220 | 430 | 615  | 530 | 750 | 11      | 715     | 5x134   | 4x121.5 | 18 | 6   | 16  | 205 |
| CUS-750D  | 1235 | 600 | 980  | 420 | 420 | 1430 | 1430 | 800  | 760  | 1000 | 750  | 1266 | 1296 | 1490 | 905  | 1225 | 1350 | 1182 | 1655 | 800  | 300 | 260 | 475 | 675  | 575 | 825 | 11      | 775     | 5x145   | 5x105   | 20 | 6   | 16  | 300 |
| CUS-900D  | 1435 | 700 | 1130 | 490 | 490 | 1628 | 1628 | 950  | 1150 | 850  | 1468 | 1498 | 1737 | 1046 | 1426 | 1550 | 1384 | 1896 | 975  | 370  | 545 | 775 | 645 | 975  | 11  | 875 | 6x137.5 | 5x119   | 22      | 6       | 16 | 418 |     |     |
| CUS-1000D | 1573 | 765 | 1230 | 520 | 520 | 1780 | 1780 | 1075 | 1300 | 925  | 1608 | 1640 | 1905 | 1145 | 1570 | 1690 | 1525 | 2070 | 1075 | 450  | 595 | 850 | 695 | 1075 | 11  | 950 | 6x150   | 5x129   | 22      | 6       | 16 | 525 |     |     |

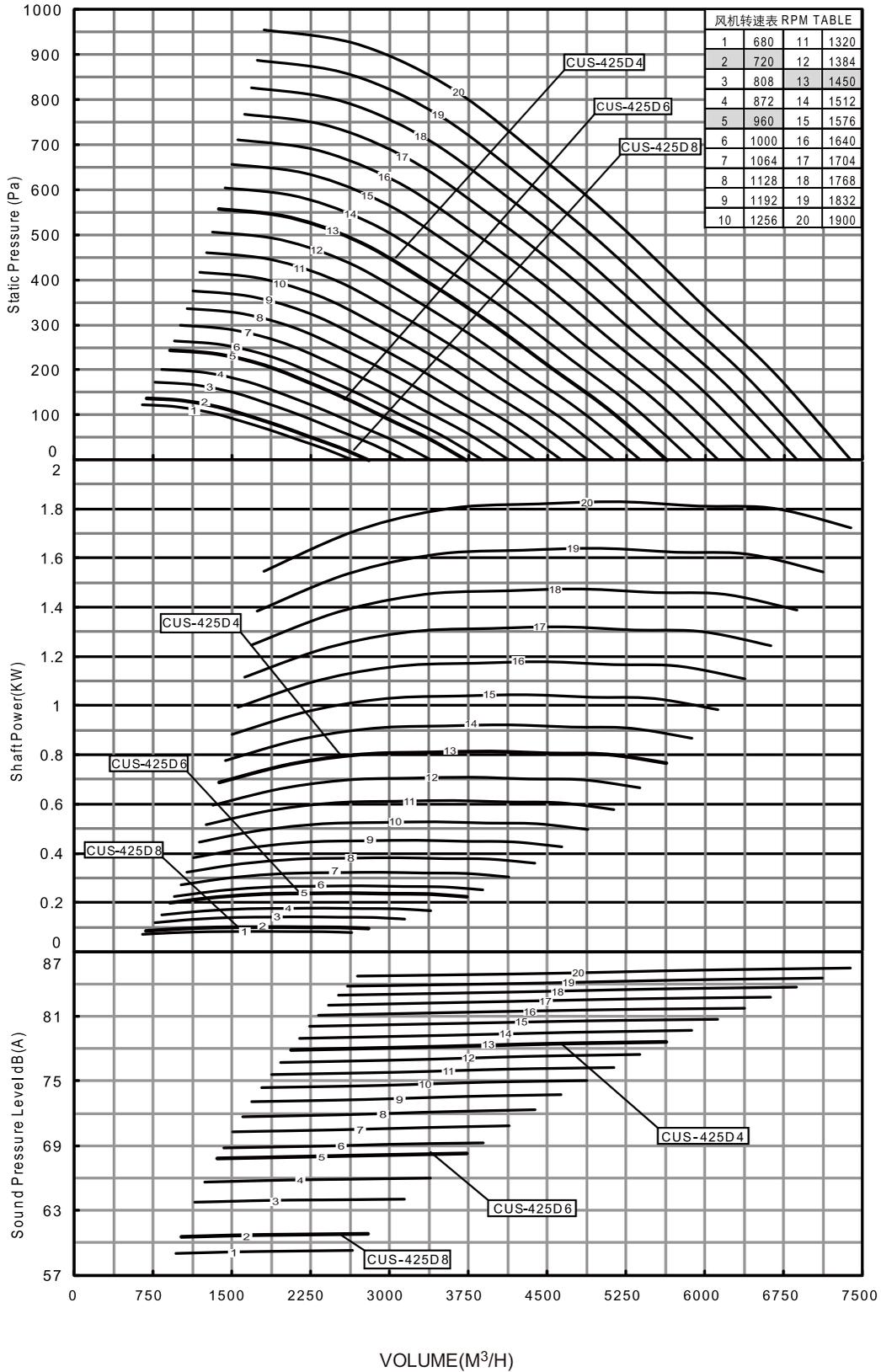
Note • The motor weight is not included in the above table. • Right rotations are in symmetry with left rotations and the dimensions are the same.

CUS-300  
Model: CUS-300



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

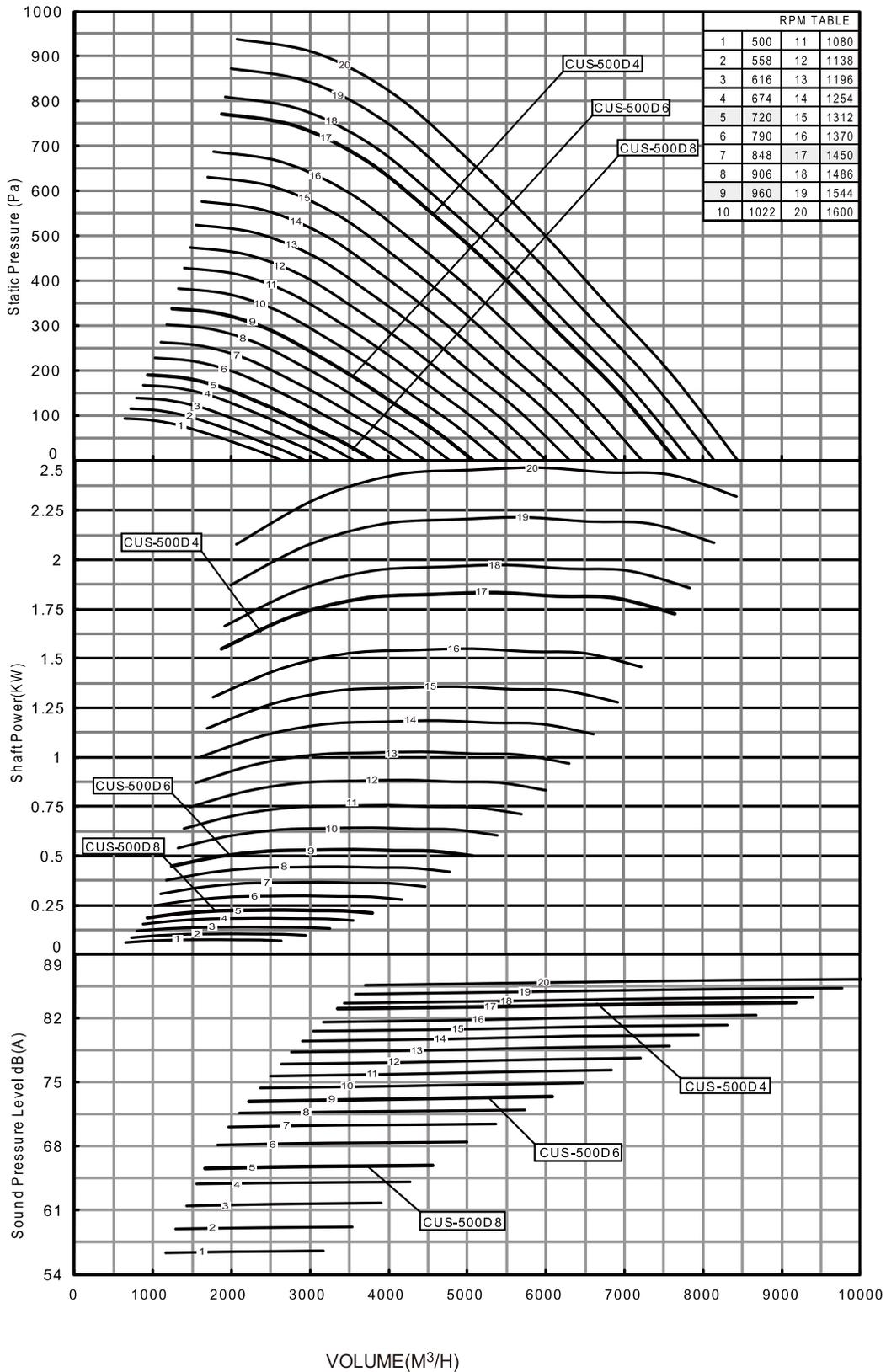
CUS-425  
Model: CUS-425



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

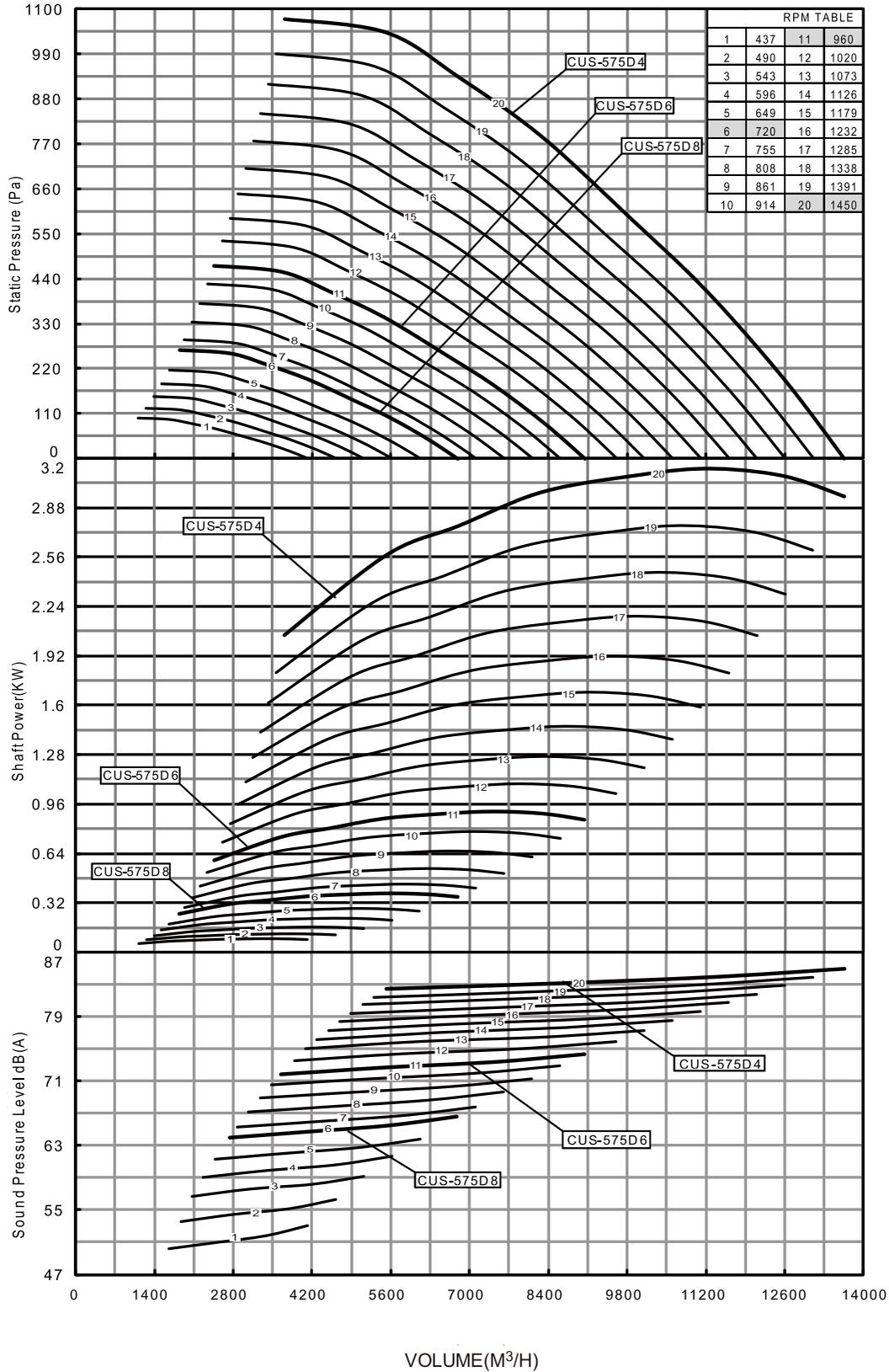
# CUS-500

Model: CUS-500



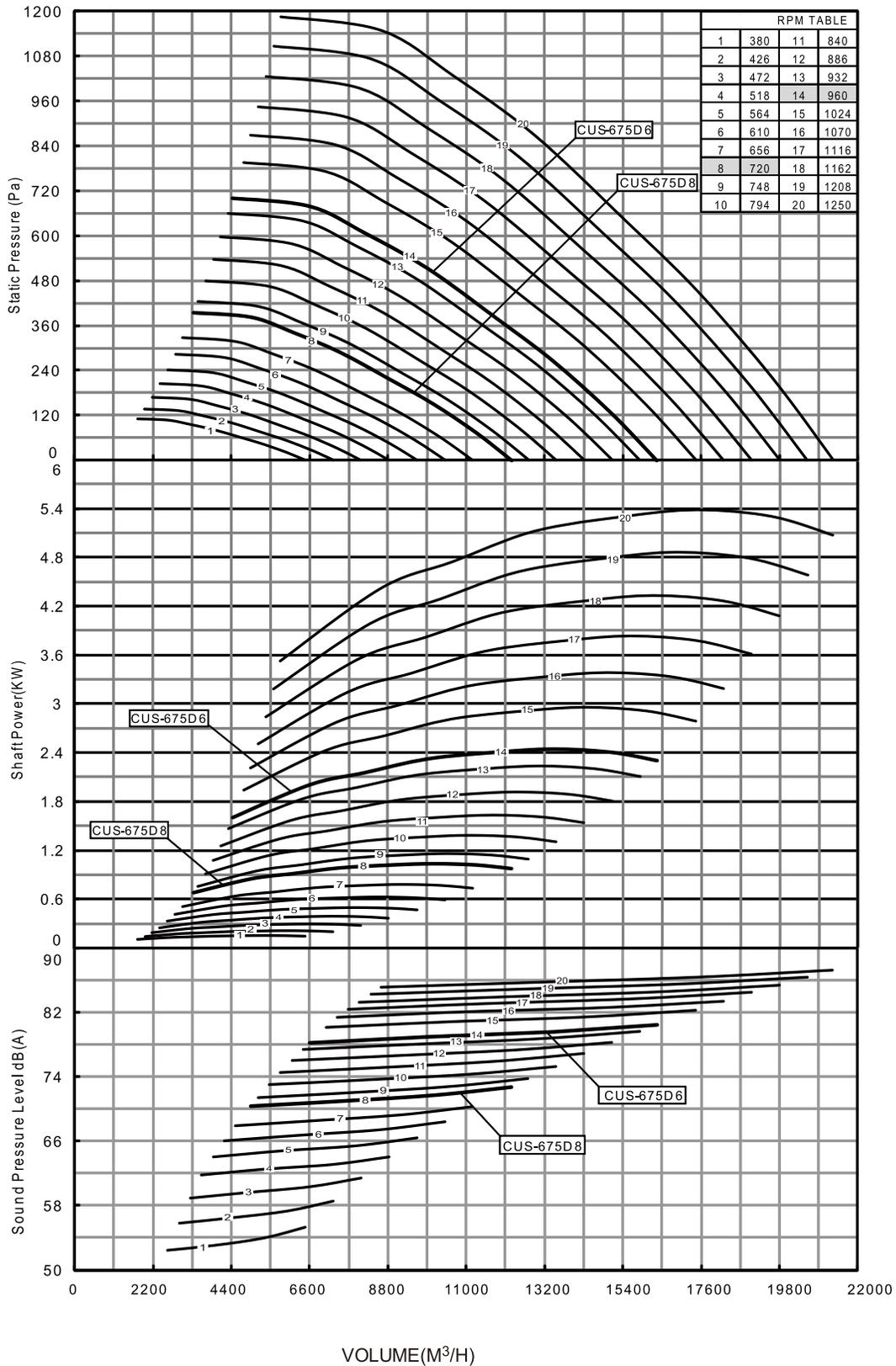
Performance certified is for installation type B - free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band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

CUS-575  
Model: CUS-575



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

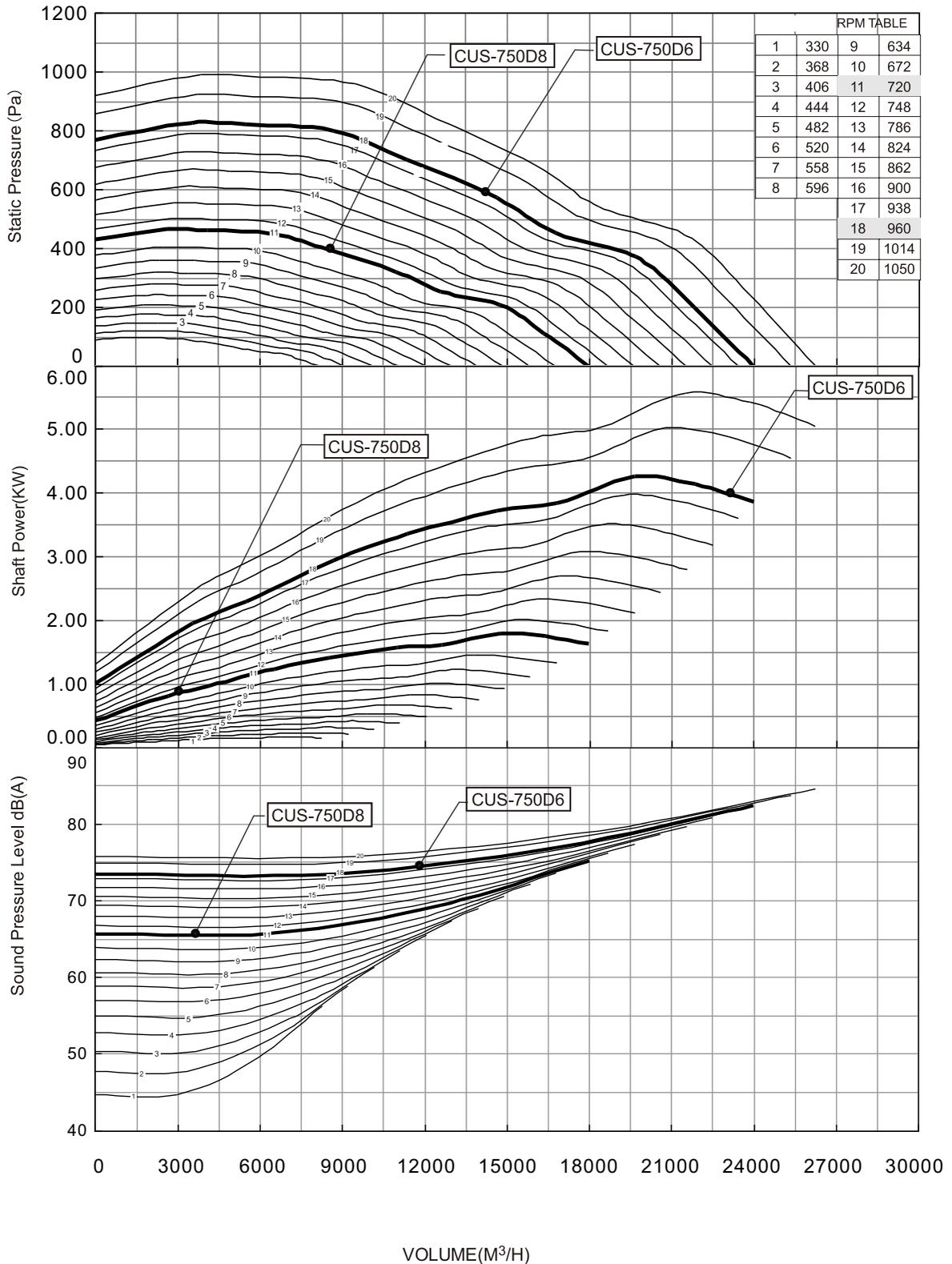
CUS-675  
Model: CUS-675



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

# CUS-750

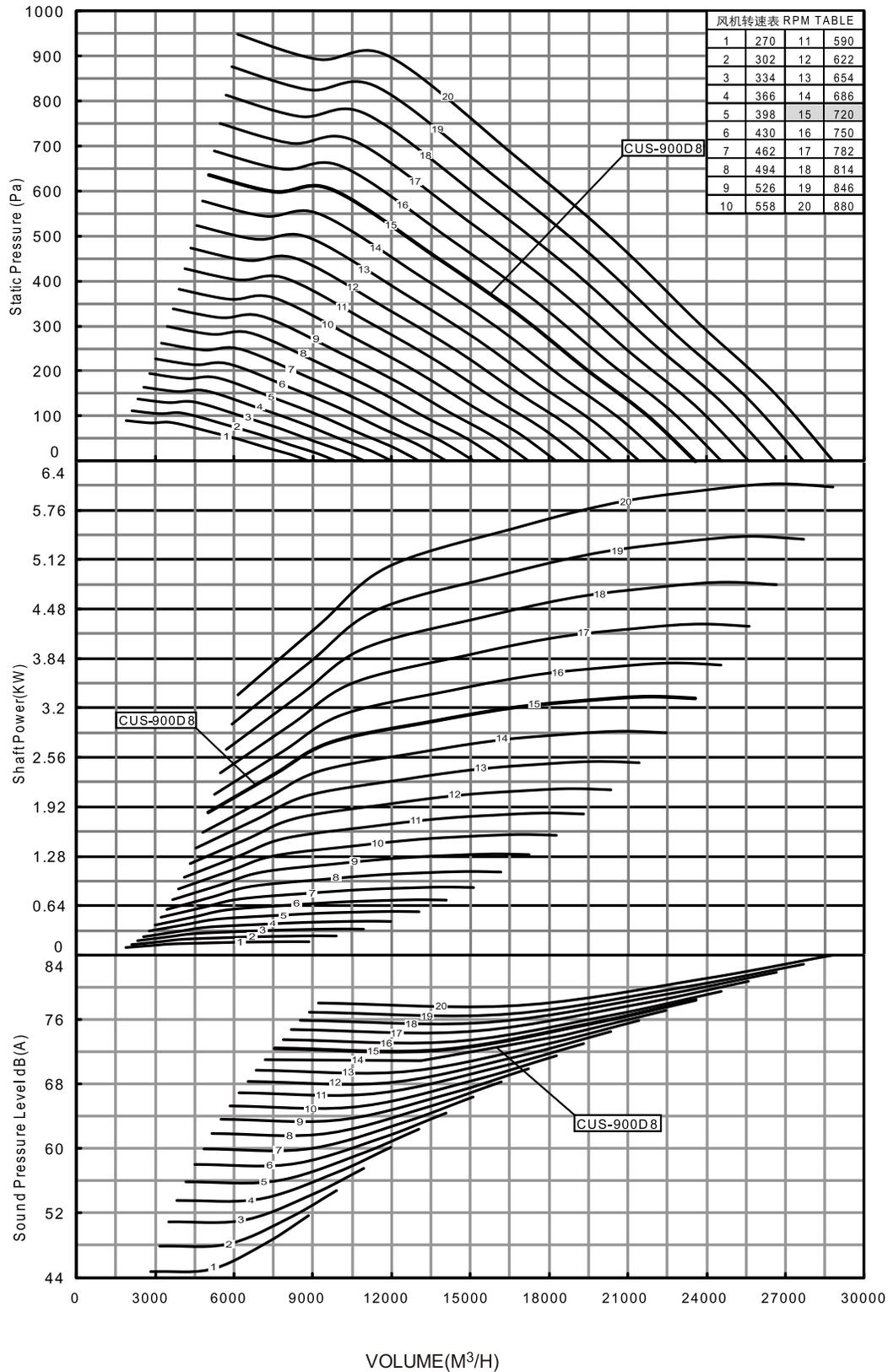
Model: CUS-750



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) . dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

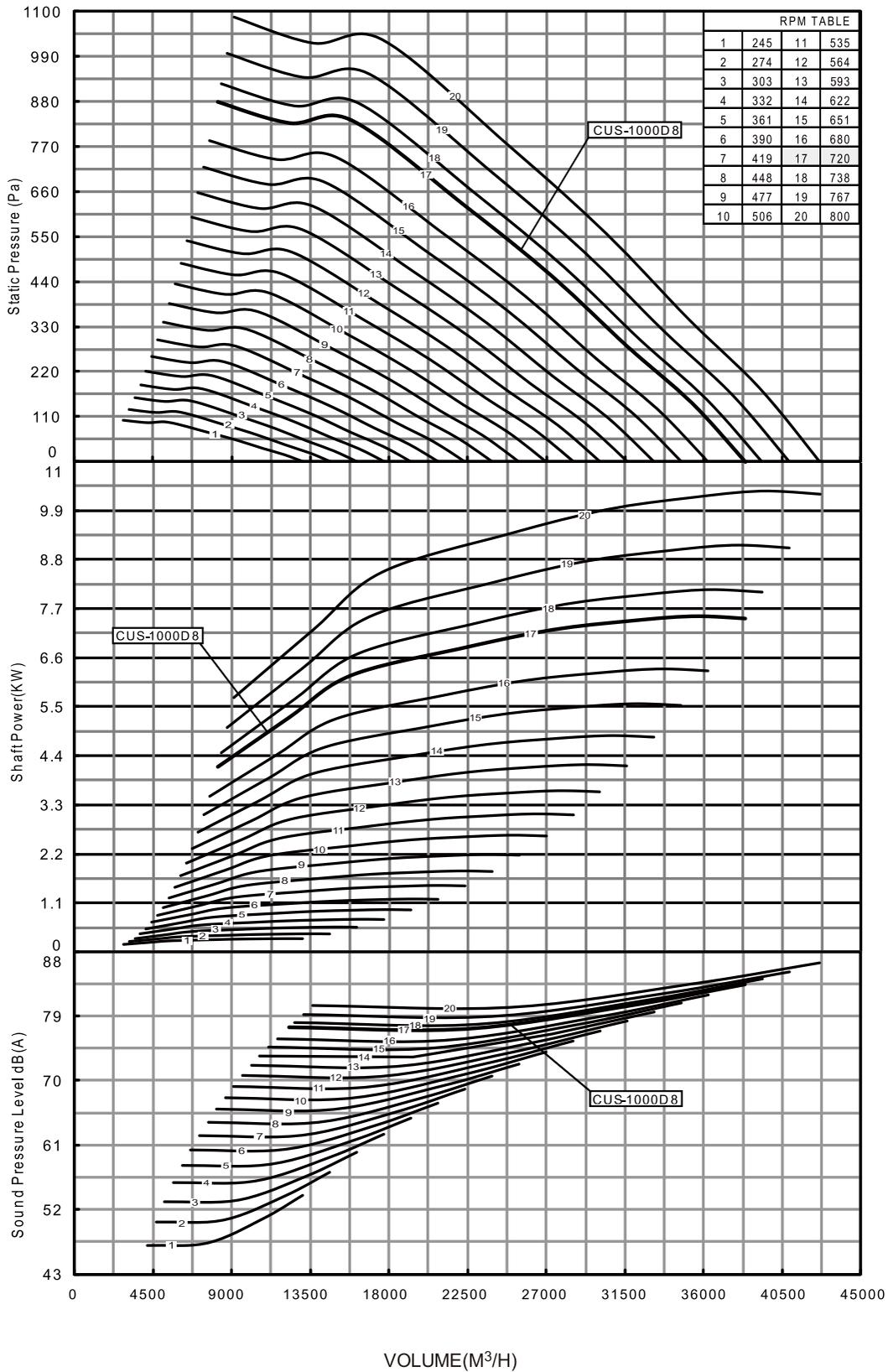


CUS-900  
Model: CUS-900



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

CUS-1000  
Model: CUS-1000



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). dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.

## Fans Energy Index Tables - CUS

### CUS 300 FEI

| Model  | Flow rate (m <sup>3</sup> /s) | SP (Pa) | Regulated | Unregulated |
|--------|-------------------------------|---------|-----------|-------------|
| 300D6  | 0.18                          | 110     |           | 1.94        |
| 300D6  | 0.24                          | 75      |           | 2.01        |
| 300D6  | 0.30                          | 50      |           | 2.11        |
| 300D4  | 0.24                          | 250     | 1.17      | 1.52        |
| 300D4  | 0.30                          | 215     | 1.20      | 1.54        |
| 300D4  | 0.36                          | 170     | 1.23      | 1.57        |
| 300D4  | 0.42                          | 140     | 1.30      | 1.65        |
| 300D4  | 0.48                          | 95      | 1.29      | 1.65        |
| 300-2P | 0.48                          | 600     | 1.16      | 1.17        |
| 300-2P | 0.54                          | 527     | 1.18      | 1.19        |
| 300-2P | 0.60                          | 455     | 1.19      | 1.20        |
| 300-2P | 0.66                          | 385     | 1.19      | 1.21        |
| 300-2P | 0.72                          | 305     | 1.17      | 1.18        |
| 300-2P | 0.78                          | 220     | 1.12      | 1.13        |
| 300-2P | 0.84                          | 150     | 1.10      | 1.11        |

### CUS 425 FEI

| Model | Flow rate (m <sup>3</sup> /s) | SP (Pa) | Regulated | Unregulated |
|-------|-------------------------------|---------|-----------|-------------|
| 425D8 | 0.45                          | 110     | 1.14      | 1.93        |
| 425D8 | 0.68                          | 50      | 1.27      | 2.14        |
| 425D6 | 0.45                          | 235     | 1.11      | 1.37        |
| 425D6 | 0.68                          | 167     | 1.29      | 1.60        |
| 425D6 | 0.9                           | 90      | 1.33      | 1.63        |
| 425D4 | 0.9                           | 450     | 1.28      | 1.27        |
| 425D4 | 1.13                          | 345     | 1.37      | 1.35        |
| 425D4 | 1.35                          | 210     | 1.33      | 1.32        |
| 425D4 | 1.58                          | 80      | 1.26      | 1.25        |

### CUS 500 FEI

| Model | Flow rate (m <sup>3</sup> /s) | SP (Pa) | Regulated | Unregulated |
|-------|-------------------------------|---------|-----------|-------------|
| 500D6 | 0.6                           | 320     | 1.11      | 1.10        |
| 500D6 | 0.75                          | 290     | 1.12      | 1.14        |
| 500D6 | 0.9                           | 250     | 1.16      | 1.24        |
| 500D6 | 1.05                          | 190     | 1.17      | 1.25        |
| 500D6 | 1.2                           | 140     | 1.21      | 1.29        |
| 500D6 | 1.35                          | 75      | 1.16      | 1.25        |



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## Fans Energy Index Tables - CUS

### CUS 575 FEI

| Model | Flow rate (m3/s) | SP (Pa) | Regulated | Unregulated |
|-------|------------------|---------|-----------|-------------|
| 575D8 | 0.84             | 260     | 1.50      | 1.80        |
| 575D8 | 1.05             | 220     | 1.60      | 1.90        |
| 575D8 | 1.26             | 190     | 1.71      | 2.01        |
| 575D8 | 1.47             | 145     | 1.75      | 2.05        |
| 575D8 | 1.68             | 95      | 1.78      | 2.08        |
| 575D6 | 1.05             | 450     | 1.47      | 1.52        |
| 575D6 | 1.26             | 435     | 1.60      | 1.64        |
| 575D6 | 1.47             | 385     | 1.63      | 1.66        |
| 575D6 | 1.68             | 330     | 1.63      | 1.66        |
| 575D6 | 1.89             | 275     | 1.66      | 1.69        |
| 575D6 | 2.1              | 220     | 1.68      | 1.70        |
| 575D6 | 2.31             | 160     | 1.70      | 1.72        |
| 575D4 | 1.89             | 990     | 1.42      | 1.40        |
| 575D4 | 2.1              | 920     | 1.46      | 1.44        |
| 575D4 | 2.31             | 840     | 1.47      | 1.45        |
| 575D4 | 2.52             | 770     | 1.48      | 1.47        |
| 575D4 | 2.73             | 670     | 1.47      | 1.46        |
| 575D4 | 2.94             | 600     | 1.51      | 1.50        |
| 575D4 | 3.15             | 495     | 1.50      | 1.49        |
| 575D4 | 3.36             | 405     | 1.51      | 1.50        |
| 575D4 | 3.57             | 290     | 1.46      | 1.45        |

### CUS 675 FEI

| Model | Flow rate (m3/s) | SP (Pa) | Regulated | Unregulated |
|-------|------------------|---------|-----------|-------------|
| 675D8 | 1.65             | 365     | 1.53      | 1.62        |
| 675D8 | 1.98             | 320     | 1.62      | 1.71        |
| 675D8 | 2.31             | 275     | 1.70      | 1.79        |
| 675D8 | 2.64             | 220     | 1.42      | 1.49        |
| 675D8 | 2.97             | 155     | 1.36      | 1.43        |
| 675D8 | 3.3              | 90      | 1.50      | 1.58        |
| 675D6 | 1.98             | 685     | 1.34      | 1.39        |
| 675D6 | 2.31             | 630     | 1.44      | 1.51        |
| 675D6 | 2.64             | 575     | 1.50      | 1.58        |
| 675D6 | 2.97             | 520     | 1.61      | 1.62        |
| 675D6 | 3.3              | 430     | 1.60      | 1.61        |
| 675D6 | 3.63             | 360     | 1.65      | 1.66        |
| 675D6 | 3.96             | 290     | 1.73      | 1.74        |
| 675D6 | 4.29             | 180     | 1.70      | 1.71        |



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## Fans Energy Index Tables - CUS

### CUS 750 FEI

| Model  | Flow rate (m3/s) | SP (Pa) | Regulated | Unregulated |
|--------|------------------|---------|-----------|-------------|
| 750D8  | 1.95             | 480     | 1.43      | 1.50        |
| 750D8  | 2.34             | 440     | 1.51      | 1.59        |
| 750D8  | 2.73             | 395     | 1.55      | 1.64        |
| 750D8  | 3.12             | 355     | 1.59      | 1.69        |
| 750D8  | 3.51             | 280     | 1.56      | 1.67        |
| 750D8  | 3.9              | 220     | 1.64      | 1.75        |
| 750D8  | 4.29             | 160     | 1.71      | 1.83        |
| 750-6P | 2.34             | 680     | 1.26      | 1.27        |
| 750-6P | 2.73             | 640     | 1.37      | 1.38        |
| 750-6P | 3.12             | 590     | 1.42      | 1.43        |
| 750-6P | 3.51             | 535     | 1.46      | 1.47        |
| 750-6P | 3.9              | 480     | 1.54      | 1.56        |
| 750-6P | 4.29             | 390     | 1.52      | 1.54        |
| 750-6P | 4.68             | 330     | 1.60      | 1.63        |
| 750-6P | 5.07             | 240     | 1.62      | 1.64        |

### CUS - 900 FEI

| Model | Flow rate (m3/s) | SP (Pa) | Regulated | Unregulated |
|-------|------------------|---------|-----------|-------------|
| 900D8 | 3.6              | 525     | 1.40      | 1.46        |
| 900D8 | 4.05             | 455     | 1.40      | 1.47        |
| 900D8 | 4.5              | 400     | 1.40      | 1.46        |
| 900D8 | 4.95             | 345     | 1.45      | 1.52        |
| 900D8 | 5.4              | 265     | 1.41      | 1.48        |
| 900D8 | 5.85             | 200     | 1.43      | 1.50        |
| 900D8 | 6.3              | 135     | 1.44      | 1.52        |

### CUS -1000 FEI

| Model  | Flow rate (m3/s) | SP (Pa) | Regulated | Unregulated |
|--------|------------------|---------|-----------|-------------|
| 1000D8 | 4.73             | 825.00  | 1.27      | 1.30        |
| 1000D8 | 5.40             | 770.00  | 1.33      | 1.36        |
| 1000D8 | 6.08             | 695.00  | 1.40      | 1.43        |
| 1000D8 | 6.75             | 610.00  | 1.44      | 1.47        |
| 1000D8 | 7.34             | 545.00  | 1.48      | 1.52        |
| 1000D8 | 8.10             | 465.00  | 1.55      | 1.59        |
| 1000D8 | 8.78             | 385.00  | 1.57      | 1.61        |
| 1000D8 | 9.45             | 280.00  | 1.58      | 1.63        |
| 1000D8 | 10.13            | 200.00  | 1.63      | 1.68        |
| 1000D8 | 10.80            | 115.00  | 1.68      | 1.73        |



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**CUS-300**

| RPM  | Pa   | Volume | SOUND POWER  |     |    |    |    |    |    |    | LWiA | dB(A) |
|------|------|--------|--------------|-----|----|----|----|----|----|----|------|-------|
|      |      |        | OCTAVE BANOS |     |    |    |    |    |    |    |      |       |
|      |      |        | 1            | 2   | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 800  | 0    | 1061   | 55           | 58  | 57 | 60 | 59 | 59 | 49 | 39 | 64   | 52    |
|      | 31   | 853    | 55           | 58  | 55 | 60 | 59 | 59 | 49 | 39 | 64   | 52    |
|      | 58   | 635    | 56           | 56  | 53 | 60 | 59 | 59 | 49 | 39 | 64   | 52    |
|      | 80   | 388    | 56           | 56  | 53 | 59 | 59 | 59 | 49 | 39 | 64   | 52    |
| 960  | 0    | 1273   | 61           | 62  | 63 | 64 | 63 | 64 | 56 | 46 | 69   | 57    |
|      | 44   | 1024   | 63           | 62  | 62 | 63 | 63 | 64 | 56 | 46 | 68   | 57    |
|      | 84   | 762    | 64           | 61  | 60 | 63 | 63 | 64 | 56 | 46 | 68   | 57    |
|      | 115  | 465    | 64           | 61  | 60 | 62 | 63 | 64 | 56 | 46 | 68   | 57    |
| 1022 | 0    | 1355   | 64           | 64  | 66 | 65 | 65 | 65 | 58 | 48 | 70   | 59    |
|      | 50   | 1090   | 66           | 64  | 65 | 65 | 65 | 65 | 58 | 48 | 70   | 58    |
|      | 95   | 811    | 67           | 63  | 63 | 64 | 65 | 65 | 58 | 48 | 70   | 58    |
|      | 131  | 495    | 67           | 63  | 63 | 64 | 65 | 58 | 48 | 70 | 58   |       |
| 1133 | 0    | 1503   | 68           | 66  | 69 | 68 | 67 | 67 | 62 | 52 | 73   | 61    |
|      | 61   | 1208   | 71           | 66  | 69 | 67 | 67 | 67 | 62 | 52 | 72   | 61    |
|      | 117  | 900    | 72           | 66  | 67 | 66 | 67 | 67 | 62 | 52 | 72   | 61    |
|      | 160  | 549    | 72           | 66  | 67 | 65 | 67 | 67 | 62 | 52 | 72   | 61    |
| 1244 | 0    | 1650   | 72           | 69  | 73 | 70 | 70 | 69 | 65 | 55 | 75   | 63    |
|      | 74   | 1327   | 76           | 69  | 73 | 68 | 70 | 69 | 65 | 55 | 75   | 63    |
|      | 141  | 988    | 76           | 69  | 71 | 67 | 70 | 69 | 65 | 55 | 75   | 63    |
|      | 193  | 603    | 76           | 69  | 71 | 67 | 69 | 69 | 65 | 55 | 74   | 63    |
| 1355 | 0    | 1797   | 76           | 71  | 74 | 71 | 72 | 71 | 69 | 59 | 77   | 66    |
|      | 88   | 1445   | 80           | 71  | 74 | 70 | 72 | 71 | 69 | 59 | 77   | 65    |
|      | 168  | 1076   | 80           | 72  | 72 | 69 | 72 | 71 | 69 | 59 | 77   | 65    |
|      | 229  | 657    | 80           | 72  | 72 | 68 | 71 | 71 | 69 | 59 | 76   | 65    |
| 1450 | 0    | 1923   | 78           | 73  | 76 | 73 | 74 | 72 | 71 | 61 | 79   | 67    |
|      | 100  | 1547   | 83           | 73  | 76 | 71 | 74 | 72 | 71 | 61 | 79   | 67    |
|      | 192  | 1151   | 84           | 74  | 74 | 70 | 74 | 72 | 71 | 61 | 78   | 67    |
|      | 263  | 703    | 83           | 74  | 74 | 70 | 73 | 72 | 71 | 61 | 78   | 67    |
| 1577 | 0    | 2091   | 82           | 75  | 77 | 75 | 76 | 74 | 74 | 64 | 81   | 69    |
|      | 119  | 1682   | 87           | 75  | 77 | 73 | 76 | 74 | 74 | 64 | 81   | 69    |
|      | 227  | 1252   | 87           | 76  | 75 | 71 | 76 | 74 | 74 | 64 | 81   | 69    |
|      | 311  | 764    | 87           | 76  | 75 | 71 | 75 | 74 | 74 | 64 | 80   | 69    |
| 1688 | 0    | 2239   | 84           | 77  | 78 | 77 | 77 | 75 | 76 | 67 | 83   | 71    |
|      | 136  | 1800   | 90           | 77  | 78 | 77 | 75 | 76 | 67 | 83 | 71   |       |
|      | 260  | 1340   | 90           | 79  | 76 | 73 | 77 | 75 | 76 | 67 | 82   | 71    |
|      | 356  | 818    | 89           | 79  | 76 | 73 | 76 | 75 | 76 | 67 | 82   | 71    |
| 1799 | 0    | 2386   | 85           | 79  | 80 | 79 | 79 | 77 | 78 | 69 | 84   | 73    |
|      | 154  | 1919   | 91           | 80  | 80 | 77 | 78 | 77 | 78 | 69 | 84   | 73    |
|      | 296  | 1428   | 91           | 82  | 78 | 75 | 78 | 77 | 78 | 69 | 84   | 72    |
|      | 404  | 872    | 90           | 82  | 78 | 75 | 77 | 77 | 78 | 69 | 84   | 72    |
| 1910 | 0    | 2533   | 86           | 82  | 81 | 81 | 80 | 78 | 79 | 71 | 86   | 74    |
|      | 174  | 2037   | 92           | 83  | 81 | 80 | 80 | 78 | 79 | 71 | 86   | 74    |
|      | 333  | 1517   | 92           | 84  | 80 | 78 | 79 | 78 | 79 | 71 | 85   | 74    |
|      | 456  | 926    | 91           | 84  | 80 | 78 | 78 | 79 | 71 | 85 | 74   |       |
| 2021 | 0    | 2680   | 87           | 84  | 83 | 83 | 81 | 80 | 80 | 73 | 87   | 76    |
|      | 195  | 2156   | 93           | 86  | 83 | 82 | 81 | 80 | 80 | 73 | 87   | 76    |
|      | 373  | 1605   | 93           | 87  | 82 | 80 | 80 | 80 | 73 | 87 | 75   |       |
|      | 510  | 979    | 92           | 87  | 82 | 80 | 79 | 80 | 73 | 86 | 75   |       |
| 2132 | 0    | 2827   | 88           | 86  | 84 | 85 | 82 | 81 | 81 | 75 | 89   | 77    |
|      | 217  | 2274   | 94           | 88  | 84 | 84 | 82 | 81 | 81 | 75 | 88   | 77    |
|      | 415  | 1693   | 94           | 90  | 84 | 82 | 81 | 81 | 81 | 75 | 88   | 77    |
|      | 568  | 1033   | 93           | 89  | 84 | 82 | 80 | 81 | 81 | 75 | 88   | 76    |
| 2243 | 0    | 2975   | 89           | 88  | 86 | 87 | 84 | 83 | 82 | 77 | 90   | 79    |
|      | 240  | 2392   | 95           | 91  | 86 | 87 | 83 | 83 | 82 | 77 | 90   | 78    |
|      | 460  | 1781   | 95           | 92  | 85 | 85 | 82 | 83 | 82 | 77 | 89   | 78    |
|      | 629  | 1087   | 94           | 92  | 85 | 85 | 81 | 82 | 82 | 77 | 89   | 78    |
| 2354 | 0    | 3122   | 90           | 90  | 87 | 89 | 85 | 84 | 83 | 79 | 91   | 80    |
|      | 264  | 2511   | 96           | 93  | 87 | 89 | 84 | 84 | 83 | 79 | 91   | 80    |
|      | 506  | 1869   | 96           | 94  | 87 | 87 | 83 | 84 | 83 | 79 | 91   | 79    |
|      | 692  | 1141   | 95           | 94  | 87 | 87 | 82 | 83 | 83 | 79 | 90   | 79    |
| 2465 | 0    | 3269   | 91           | 92  | 88 | 91 | 86 | 85 | 84 | 80 | 93   | 81    |
|      | 290  | 2629   | 97           | 96  | 88 | 90 | 85 | 85 | 84 | 80 | 93   | 81    |
|      | 555  | 1957   | 97           | 96  | 88 | 88 | 83 | 85 | 84 | 80 | 92   | 81    |
|      | 759  | 1195   | 96           | 96  | 88 | 88 | 83 | 84 | 84 | 80 | 92   | 80    |
| 2576 | 0    | 3416   | 92           | 94  | 89 | 92 | 87 | 86 | 85 | 82 | 94   | 82    |
|      | 316  | 2748   | 98           | 98  | 89 | 92 | 85 | 86 | 85 | 82 | 94   | 82    |
|      | 606  | 2045   | 98           | 98  | 90 | 90 | 84 | 86 | 85 | 82 | 93   | 82    |
|      | 829  | 1248   | 97           | 98  | 90 | 90 | 84 | 85 | 85 | 82 | 93   | 81    |
| 2687 | 0    | 3564   | 92           | 96  | 90 | 92 | 88 | 87 | 86 | 83 | 95   | 83    |
|      | 344  | 2866   | 98           | 100 | 90 | 92 | 86 | 87 | 86 | 83 | 95   | 83    |
|      | 660  | 2133   | 98           | 100 | 91 | 90 | 85 | 87 | 86 | 83 | 94   | 83    |
|      | 902  | 1302   | 97           | 100 | 91 | 90 | 84 | 86 | 86 | 83 | 94   | 82    |
| 2798 | 0    | 3711   | 93           | 97  | 91 | 93 | 88 | 88 | 87 | 85 | 96   | 84    |
|      | 373  | 2984   | 99           | 102 | 91 | 93 | 87 | 88 | 87 | 85 | 96   | 84    |
|      | 715  | 2222   | 99           | 102 | 92 | 91 | 85 | 88 | 87 | 85 | 95   | 84    |
|      | 978  | 1356   | 98           | 102 | 92 | 91 | 85 | 87 | 87 | 85 | 95   | 83    |
| 2900 | 0    | 3846   | 94           | 99  | 92 | 94 | 89 | 89 | 87 | 86 | 97   | 85    |
|      | 401  | 3093   | 100          | 104 | 92 | 94 | 88 | 89 | 87 | 86 | 97   | 85    |
|      | 768  | 2303   | 100          | 104 | 93 | 92 | 86 | 89 | 87 | 86 | 96   | 85    |
|      | 1051 | 1405   | 99           | 103 | 93 | 92 | 86 | 88 | 87 | 86 | 96   | 84    |

**CUS-425**

| RPM  | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWiA | dB(A) |
|------|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|      |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|      |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 680  | 0   | 2643   | 64           | 68 | 66 | 67 | 67 | 64 | 55 | 45 | 71   | 59    |
|      | 45  | 2125   | 64           | 68 | 65 | 67 | 67 | 64 | 55 | 45 | 71   | 59    |
|      | 87  | 1582   | 65           | 67 | 63 | 67 | 67 | 64 | 55 | 45 | 71   | 59    |
|      | 118 | 966    | 65           | 66 | 63 | 67 | 67 | 64 | 55 | 45 | 70   | 59    |
| 720  | 0   | 2798   | 66           | 69 | 67 | 69 | 68 | 67 | 57 | 47 | 72   | 61    |
|      | 51  | 2250   | 66           | 69 | 66 | 69 | 68 | 67 | 57 | 47 | 72   | 61    |
|      | 97  | 1675   | 67           | 68 | 64 | 69 | 68 | 67 | 57 | 47 | 72   | 61    |
|      | 133 | 1022   | 67           | 67 | 64 | 68 | 68 | 67 | 57 | 47 | 72   | 61    |
| 808  | 0   | 3140   | 69           | 71 | 70 | 72 | 70 | 71 | 61 | 51 | 76   | 64    |
|      | 64  | 2525   | 69           | 71 | 68 | 72 | 70 | 71 | 61 | 51 | 75   | 64    |
|      | 122 | 1880   | 70           | 70 | 66 | 72 | 70 | 71 | 61 | 51 | 75   | 64    |
|      | 167 | 1147   | 70           | 69 | 66 | 71 | 70 | 71 | 61 | 51 | 75   | 64    |
| 872  | 0   | 3389   | 71           | 73 | 72 | 74 | 72 | 73 | 64 | 54 | 78   | 66    |
|      | 74  | 2725   | 71           | 73 | 71 | 73 | 72 | 73 | 64 | 54 | 77   | 66    |
|      | 142 | 2029   | 73           | 71 | 69 | 73 | 72 | 73 | 64 | 54 | 77   | 66    |
|      | 195 | 1238   | 73           | 71 | 69 | 72 | 72 | 73 | 64 | 54 | 77   | 66    |
| 960  | 0   | 3731   | 75           | 76 | 76 | 76 | 74 | 75 | 67 | 57 | 80   | 68    |
|      | 90  | 3000   | 76           | 76 | 75 | 75 | 74 | 75 | 67 | 57 | 80   | 68    |
|      | 172 | 2233   | 78           | 74 | 73 | 75 | 74 | 75 | 67 | 57 | 80   | 68    |
|      | 236 | 1363   | 78           | 74 | 73 | 74 | 74 | 75 | 67 | 57 | 79   | 68    |
| 1000 | 0   | 3886   | 77           | 77 | 77 | 77 | 75 | 76 | 68 | 58 | 81   | 69    |
|      | 98  | 3125   | 78           | 77 | 77 | 76 | 75 | 76 | 68 | 58 | 81   | 69    |
|      | 187 | 2327   | 80           | 76 | 74 | 75 | 75 | 76 | 68 | 58 | 80   | 69    |
|      | 256 | 1420   | 80           | 76 | 74 | 75 | 75 | 76 | 68 | 58 | 80   | 69    |
| 1064 | 0   | 4135   | 79           | 78 | 80 | 78 | 77 | 77 | 71 | 61 | 82   | 71    |
|      | 111 | 3325   | 81           | 78 | 79 | 77 | 77 | 77 | 71 | 61 | 82   | 71    |
|      | 212 | 2475   | 83           | 78 | 77 | 77 | 77 | 77 | 71 | 61 | 82   | 70    |
|      | 290 | 1511   | 82           | 78 | 77 | 76 | 77 | 77 | 71 | 61 | 82   | 70    |
| 1128 | 0   | 4383   | 82           | 80 | 82 | 79 | 78 | 78 | 73 | 63 | 84   | 72    |
|      | 124 | 3525   | 84           | 80 | 81 | 78 | 78 | 78 | 73 | 63 | 84   | 72    |
|      | 238 | 2624   | 85           | 79 | 79 | 77 | 78 | 78 | 73 | 63 | 83   | 72    |
|      | 326 | 1602   | 85           | 79 | 79 | 77 | 78 | 78 | 73 | 63 | 83   | 72    |
| 1192 | 0   | 4632   | 84           | 81 | 84 | 80 | 80 | 79 | 75 | 65 | 85   | 74    |
|      | 139 | 3725   | 87           | 81 | 84 | 79 | 80 | 79 | 75 | 65 | 85   | 74    |
|      | 266 | 2773   | 88           | 81 | 82 | 78 | 80 | 79 | 75 | 65 | 85   | 73    |
|      | 364 | 1693   | 88           | 81 | 82 | 78 | 79 | 79 | 75 | 65 | 85   | 73    |
| 1256 | 0   | 4881   | 86           | 82 | 86 | 82 | 81 | 80 | 77 | 67 | 87   | 75    |
|      | 154 | 3925   | 90           | 82 | 86 | 80 | 81 | 80 | 77 | 67 | 86   | 75    |
|      | 295 | 2922   | 90           | 83 | 84 | 79 | 81 | 80 | 77 | 67 | 86   | 75    |
|      | 404 | 1784   | 90           | 83 | 84 | 79 | 81 | 80 | 77 | 67 | 86   | 74    |
| 1320 | 0   | 5130   | 88           | 84 | 87 | 83 | 82 | 81 | 79 | 69 | 88   | 76    |
|      | 170 | 4125   | 92           | 84 | 87 | 81 | 82 | 81 | 79 | 69 | 88   | 76    |
|      | 326 | 3071   | 93           | 84 | 85 | 80 | 82 | 81 | 79 | 69 | 87   | 76    |
|      | 446 | 1874   | 92           | 84 | 85 | 80 | 82 | 81 | 79 | 69 | 87   | 76    |
| 1384 | 0   | 5378   | 90           | 85 | 87 | 84 | 84 | 82 | 80 | 70 | 89   | 77    |
|      | 187 | 4325   | 94           | 85 |    |    |    |    |    |    |      |       |

**CUS-500**

| RPM  | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWIA | dB(A) |
|------|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|      |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|      |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 500  | 0   | 3164   | 63           | 65 | 65 | 65 | 65 | 58 | 48 | 38 | 68   | 57    |
|      | 34  | 2545   | 63           | 64 | 64 | 65 | 65 | 58 | 48 | 38 | 68   | 56    |
|      | 65  | 1894   | 62           | 62 | 64 | 65 | 65 | 58 | 48 | 38 | 68   | 56    |
|      | 89  | 1156   | 62           | 62 | 63 | 65 | 65 | 58 | 48 | 38 | 68   | 56    |
| 558  | 0   | 3531   | 65           | 69 | 67 | 68 | 67 | 62 | 52 | 42 | 71   | 59    |
|      | 42  | 2840   | 65           | 68 | 67 | 68 | 67 | 62 | 52 | 42 | 71   | 59    |
|      | 81  | 2114   | 65           | 66 | 66 | 68 | 67 | 62 | 52 | 42 | 71   | 59    |
|      | 110 | 1290   | 65           | 66 | 65 | 67 | 67 | 62 | 52 | 42 | 70   | 59    |
| 616  | 0   | 3898   | 68           | 72 | 70 | 70 | 70 | 66 | 56 | 46 | 73   | 62    |
|      | 51  | 3135   | 68           | 72 | 68 | 70 | 70 | 66 | 56 | 46 | 73   | 62    |
|      | 98  | 2334   | 68           | 70 | 67 | 70 | 70 | 66 | 56 | 46 | 73   | 62    |
|      | 134 | 1424   | 68           | 70 | 67 | 70 | 70 | 66 | 56 | 46 | 73   | 61    |
| 674  | 0   | 4265   | 70           | 74 | 72 | 72 | 71 | 69 | 59 | 49 | 76   | 64    |
|      | 61  | 3430   | 70           | 74 | 70 | 72 | 71 | 69 | 59 | 49 | 76   | 64    |
|      | 118 | 2553   | 71           | 72 | 69 | 72 | 71 | 69 | 59 | 49 | 75   | 64    |
|      | 161 | 1558   | 71           | 72 | 68 | 72 | 71 | 69 | 59 | 49 | 75   | 64    |
| 720  | 0   | 4556   | 72           | 75 | 73 | 74 | 73 | 72 | 62 | 52 | 77   | 66    |
|      | 70  | 3664   | 72           | 75 | 71 | 74 | 73 | 72 | 62 | 52 | 77   | 66    |
|      | 134 | 2728   | 73           | 73 | 70 | 74 | 73 | 72 | 62 | 52 | 77   | 66    |
|      | 184 | 1665   | 73           | 73 | 70 | 73 | 73 | 72 | 62 | 52 | 77   | 66    |
| 790  | 0   | 4999   | 74           | 77 | 75 | 76 | 75 | 75 | 65 | 55 | 80   | 68    |
|      | 84  | 4020   | 74           | 77 | 73 | 76 | 75 | 75 | 65 | 55 | 80   | 68    |
|      | 162 | 2993   | 76           | 75 | 71 | 76 | 75 | 75 | 65 | 55 | 80   | 68    |
|      | 221 | 1827   | 76           | 75 | 71 | 76 | 75 | 75 | 65 | 55 | 80   | 68    |
| 848  | 0   | 5366   | 76           | 78 | 77 | 78 | 76 | 77 | 67 | 57 | 82   | 70    |
|      | 97  | 4316   | 76           | 78 | 75 | 78 | 76 | 77 | 67 | 57 | 82   | 70    |
|      | 186 | 3213   | 78           | 77 | 73 | 78 | 76 | 77 | 67 | 57 | 82   | 70    |
|      | 255 | 1961   | 78           | 76 | 73 | 77 | 76 | 77 | 67 | 57 | 82   | 70    |
| 906  | 0   | 5733   | 79           | 80 | 79 | 80 | 78 | 79 | 70 | 60 | 83   | 72    |
|      | 111 | 4611   | 80           | 80 | 78 | 79 | 78 | 79 | 70 | 60 | 83   | 72    |
|      | 213 | 3432   | 81           | 79 | 76 | 79 | 78 | 79 | 70 | 60 | 83   | 72    |
|      | 291 | 2095   | 81           | 79 | 76 | 78 | 78 | 79 | 70 | 60 | 83   | 72    |
| 960  | 0   | 6075   | 81           | 82 | 81 | 81 | 79 | 80 | 72 | 62 | 85   | 73    |
|      | 125 | 4885   | 82           | 82 | 80 | 80 | 79 | 80 | 72 | 62 | 85   | 73    |
|      | 239 | 3637   | 84           | 80 | 78 | 80 | 79 | 80 | 72 | 62 | 85   | 73    |
|      | 326 | 2220   | 84           | 80 | 78 | 79 | 79 | 80 | 72 | 62 | 84   | 73    |
| 1022 | 0   | 6467   | 84           | 83 | 84 | 82 | 81 | 81 | 74 | 64 | 86   | 75    |
|      | 141 | 5201   | 86           | 83 | 83 | 82 | 81 | 81 | 74 | 64 | 86   | 75    |
|      | 270 | 3872   | 87           | 82 | 81 | 81 | 81 | 81 | 74 | 64 | 86   | 75    |
|      | 370 | 2363   | 87           | 82 | 81 | 80 | 81 | 81 | 74 | 64 | 86   | 74    |
| 1080 | 0   | 6834   | 86           | 84 | 86 | 83 | 82 | 82 | 76 | 66 | 88   | 76    |
|      | 158 | 5496   | 88           | 84 | 85 | 83 | 82 | 82 | 76 | 66 | 88   | 76    |
|      | 302 | 4091   | 90           | 84 | 83 | 82 | 82 | 82 | 76 | 66 | 87   | 76    |
|      | 413 | 2497   | 89           | 84 | 83 | 81 | 82 | 82 | 76 | 66 | 87   | 76    |
| 1138 | 0   | 7201   | 88           | 86 | 88 | 85 | 84 | 83 | 78 | 68 | 89   | 78    |
|      | 175 | 5791   | 91           | 86 | 87 | 84 | 84 | 83 | 78 | 68 | 89   | 77    |
|      | 335 | 4311   | 92           | 86 | 85 | 83 | 84 | 83 | 78 | 68 | 89   | 77    |
|      | 459 | 2631   | 92           | 86 | 85 | 82 | 83 | 83 | 78 | 68 | 88   | 77    |
| 1196 | 0   | 7568   | 90           | 87 | 90 | 86 | 85 | 84 | 80 | 70 | 90   | 79    |
|      | 193 | 6087   | 93           | 87 | 89 | 85 | 85 | 84 | 80 | 70 | 90   | 79    |
|      | 370 | 4531   | 94           | 87 | 87 | 84 | 85 | 84 | 80 | 70 | 90   | 78    |
|      | 507 | 2765   | 94           | 87 | 87 | 83 | 84 | 84 | 80 | 70 | 90   | 78    |
| 1254 | 0   | 7935   | 92           | 88 | 91 | 87 | 86 | 85 | 82 | 72 | 92   | 80    |
|      | 212 | 6382   | 96           | 88 | 91 | 86 | 86 | 85 | 82 | 72 | 91   | 80    |
|      | 407 | 4751   | 97           | 89 | 89 | 84 | 86 | 85 | 82 | 72 | 91   | 80    |
|      | 557 | 2900   | 96           | 89 | 89 | 84 | 85 | 85 | 82 | 72 | 91   | 79    |
| 1312 | 0   | 8302   | 94           | 89 | 92 | 88 | 87 | 86 | 83 | 73 | 93   | 81    |
|      | 233 | 6677   | 98           | 89 | 92 | 86 | 87 | 86 | 83 | 73 | 93   | 81    |
|      | 446 | 4970   | 99           | 90 | 90 | 85 | 87 | 86 | 83 | 73 | 92   | 81    |
|      | 610 | 3034   | 98           | 90 | 90 | 85 | 87 | 86 | 83 | 73 | 92   | 81    |
| 1370 | 0   | 8669   | 96           | 90 | 93 | 89 | 88 | 87 | 85 | 75 | 94   | 82    |
|      | 254 | 6972   | 100          | 90 | 93 | 87 | 88 | 87 | 85 | 75 | 94   | 82    |
|      | 486 | 5190   | 101          | 91 | 91 | 86 | 88 | 87 | 85 | 75 | 93   | 82    |
|      | 665 | 3168   | 100          | 91 | 91 | 86 | 88 | 87 | 85 | 75 | 93   | 82    |
| 1450 | 0   | 9175   | 98           | 92 | 94 | 90 | 90 | 88 | 87 | 77 | 95   | 84    |
|      | 284 | 7379   | 103          | 92 | 94 | 88 | 90 | 88 | 87 | 77 | 95   | 84    |
|      | 544 | 5493   | 103          | 93 | 92 | 87 | 90 | 88 | 87 | 77 | 95   | 83    |
|      | 745 | 3353   | 103          | 93 | 92 | 87 | 89 | 88 | 87 | 77 | 94   | 83    |
| 1486 | 0   | 9403   | 99           | 92 | 94 | 90 | 90 | 89 | 88 | 78 | 96   | 84    |
|      | 298 | 7562   | 104          | 92 | 94 | 89 | 90 | 89 | 88 | 78 | 96   | 84    |
|      | 572 | 5630   | 105          | 94 | 92 | 87 | 90 | 89 | 88 | 78 | 95   | 84    |
|      | 782 | 3436   | 104          | 94 | 92 | 87 | 90 | 89 | 88 | 78 | 95   | 84    |
| 1544 | 0   | 9770   | 101          | 93 | 95 | 91 | 91 | 89 | 89 | 79 | 97   | 85    |
|      | 322 | 7857   | 106          | 93 | 95 | 90 | 91 | 89 | 89 | 79 | 97   | 85    |
|      | 617 | 5849   | 106          | 95 | 93 | 88 | 91 | 89 | 89 | 79 | 96   | 85    |
|      | 844 | 3570   | 106          | 95 | 93 | 88 | 90 | 89 | 89 | 79 | 96   | 85    |
| 1600 | 0   | 10124  | 102          | 94 | 96 | 92 | 92 | 90 | 90 | 80 | 98   | 86    |
|      | 346 | 8142   | 108          | 94 | 96 | 90 | 92 | 90 | 90 | 80 | 98   | 86    |
|      | 663 | 6061   | 108          | 96 | 94 | 88 | 92 | 90 | 90 | 80 | 97   | 86    |
|      | 907 | 3700   | 107          | 96 | 94 | 88 | 91 | 90 | 90 | 80 | 97   | 86    |

**CUS-575**

| RPM  | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWIA | dB(A) |
|------|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|      |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|      |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 437  | 0   | 4116   | 62           | 63 | 64 | 64 | 59 | 55 | 46 | 37 | 65   | 53    |
|      | 37  | 3381   | 60           | 62 | 63 | 63 | 58 | 50 | 41 | 31 | 63   | 52    |
|      | 72  | 2494   | 58           | 61 | 62 | 63 | 56 | 47 | 38 | 28 | 62   | 51    |
|      | 95  | 1664   | 58           | 61 | 62 | 62 | 56 | 47 | 35 | 23 | 62   | 50    |
| 490  | 0   | 4615   | 66           | 67 | 66 | 67 | 62 | 59 | 50 | 41 | 68   | 56    |
|      | 47  | 3791   | 64           | 65 | 66 | 67 | 61 | 55 | 45 | 35 | 67   | 55    |
|      | 90  | 2796   | 61           | 64 | 65 | 67 | 60 | 52 | 42 | 32 | 66   | 54    |
|      | 119 | 1866   | 61           | 64 | 64 | 65 | 60 | 51 | 40 | 28 | 65   | 54    |
| 543  | 0   | 5114   | 69           | 69 | 69 | 70 | 65 | 62 | 53 | 44 | 71   | 59    |
|      | 57  | 4201   | 67           | 67 | 68 | 70 | 64 | 58 | 48 | 38 | 70   | 58    |
|      | 111 | 3099   | 64           | 66 | 67 | 70 | 63 | 55 | 45 | 35 | 69   | 58    |
|      | 146 | 2068   | 64           | 66 | 67 | 68 | 63 | 55 | 44 | 32 | 68   | 57    |
| 596  | 0   | 5613   | 71           | 71 | 71 | 72 | 68 | 65 | 57 | 48 | 73   | 62    |
|      | 69  | 4611   | 69           | 69 | 70 | 72 | 67 | 61 | 52 | 42 | 72   | 61    |
|      | 133 | 3401   | 66           | 68 | 69 | 72 | 66 | 58 | 49 | 39 | 71   | 60    |
|      | 176 | 2270   | 66           | 68 | 69 | 70 | 66 | 58 | 47 | 35 | 71   | 59    |
| 649  | 0   | 6112   | 73           | 73 | 74 | 74 | 70 | 67 | 60 | 51 | 75   | 64    |
|      | 82  | 5021   | 71           | 71 | 72 | 74 | 70 | 64 | 55 | 45 | 74   | 63    |
|      | 158 | 3704   | 69           | 70 | 71 | 73 | 69 | 61 | 52 | 42 | 73   | 62    |
|      | 209 | 2471   | 69           | 70 | 71 | 72 | 68 | 61 | 51 | 39 | 73   | 61    |
| 720  | 0   | 6781   | 75           | 76 | 76 | 76 | 73 | 70 | 63 | 54 | 78   | 67    |
|      | 101 | 5571   | 74           | 74 | 75 | 76 | 73 | 67 | 59 | 49 | 77   | 65    |
|      | 195 | 4109   | 72           | 72 | 74 | 75 | 72 | 65 | 56 | 46 | 76   | 65    |
|      | 257 | 2742   | 72           | 72 | 74 | 74 | 71 | 65 | 55 | 43 | 75   | 64    |
| 755  | 0   | 7110   | 77           | 77 | 78 | 77 | 75 | 71 | 65 | 56 | 79   | 68    |
|      | 111 | 5841   | 76           | 75 | 76 | 77 | 74 | 68 | 60 | 50 | 78   | 67    |
|      | 214 | 4309   | 73           | 74 | 75 | 76 | 74 | 66 | 57 | 47 | 77   | 66    |
|      | 283 | 2875   | 73           | 74 | 75 | 75 | 73 | 66 | 56 | 45 | 77   | 65    |
| 808  | 0   | 7610   | 78           | 79 | 79 | 79 | 77 | 73 | 67 | 58 | 81   | 70    |
|      | 127 | 6251   | 77           | 77 | 78 | 78 | 76 | 70 | 63 | 53 | 80   | 69    |
|      | 245 | 4611   | 75           | 75 | 77 | 78 | 76 | 69 | 60 | 50 | 79   | 68    |
|      | 324 | 3077   | 75           | 75 | 77 | 77 | 75 | 69 | 59 | 47 | 79   | 67    |
| 861  | 0   | 8109   | 80           | 81 | 81 | 80 | 79 | 74 | 69 | 60 | 83   | 71    |
|      | 144 | 6661   | 79           | 79 | 79 | 79 | 78 | 72 | 65 | 55 | 82   | 70    |
|      | 278 | 4914   | 77           | 77 | 78 | 79 | 78 | 71 | 62 | 52 | 81   | 70    |
|      | 368 | 3279   | 77           | 77 | 78 | 78 | 77 | 71 | 61 | 50 | 80   | 69    |
| 914  | 0   | 8608   | 81           | 83 | 83 | 81 | 80 | 76 | 71 | 62 | 84   | 73    |
|      | 163 | 7071   | 81           | 81 | 81 | 81 | 80 | 74 | 67 | 57 | 83   | 72    |
|      | 313 | 5216   | 78           | 79 | 80 | 80 | 80 | 73 | 64 | 54 | 83   | 71    |
|      | 414 | 3481   | 78           | 79 | 80 | 79 | 78 | 73 | 64 | 52 | 82   | 70    |
| 960  | 0   | 9041   | 82           | 85 | 84 | 83 | 82 | 77 | 73 | 64 | 86   | 74    |
|      | 179 | 7427   | 82           | 83 | 82 | 82 | 82 | 76 | 69 | 59 | 85   | 73    |
|      | 346 | 5479   | 80           | 80 | 81 | 81 | 81 | 74 | 66 | 56 | 84   | 73    |
|      | 457 | 3656   | 80           | 80 | 81 | 81 | 80 | 74 | 66 | 54 | 83   | 72    |
| 1020 | 0   | 9606   | 84           | 86 | 86 | 84 | 84 | 79 | 75 | 66 | 87   |       |

**CUS-675**

| RPM  | Pa   | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWiA | dB(A) |
|------|------|--------|--------------|----|----|----|----|----|----|----|------|-------|
|      |      |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|      |      |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 380  | 0    | 6473   | 65           | 67 | 67 | 66 | 62 | 56 | 47 | 38 | 67   | 55    |
|      | 42   | 5318   | 63           | 65 | 67 | 65 | 59 | 52 | 42 | 32 | 66   | 54    |
|      | 80   | 3923   | 62           | 64 | 66 | 65 | 58 | 49 | 39 | 29 | 65   | 53    |
|      | 106  | 2617   | 62           | 64 | 66 | 64 | 57 | 48 | 37 | 25 | 64   | 52    |
| 426  | 0    | 7257   | 69           | 70 | 70 | 69 | 65 | 60 | 51 | 42 | 70   | 59    |
|      | 52   | 5961   | 67           | 68 | 69 | 69 | 63 | 56 | 46 | 36 | 69   | 57    |
|      | 101  | 4397   | 65           | 67 | 69 | 68 | 61 | 53 | 43 | 33 | 68   | 57    |
|      | 134  | 2934   | 65           | 67 | 68 | 68 | 61 | 52 | 41 | 30 | 67   | 56    |
| 472  | 0    | 8040   | 72           | 73 | 72 | 72 | 67 | 63 | 55 | 45 | 73   | 61    |
|      | 64   | 6605   | 70           | 71 | 71 | 72 | 66 | 60 | 50 | 40 | 72   | 60    |
|      | 124  | 4872   | 68           | 70 | 71 | 72 | 65 | 57 | 47 | 37 | 71   | 60    |
|      | 164  | 3251   | 67           | 70 | 70 | 71 | 65 | 56 | 45 | 34 | 70   | 59    |
| 518  | 0    | 8824   | 75           | 75 | 74 | 75 | 70 | 67 | 58 | 49 | 76   | 64    |
|      | 77   | 7249   | 73           | 73 | 73 | 75 | 69 | 63 | 53 | 43 | 75   | 63    |
|      | 149  | 5347   | 70           | 72 | 72 | 75 | 68 | 60 | 50 | 40 | 74   | 62    |
|      | 198  | 3568   | 70           | 72 | 72 | 73 | 68 | 60 | 48 | 37 | 73   | 62    |
| 564  | 0    | 9607   | 77           | 77 | 76 | 77 | 72 | 69 | 61 | 52 | 78   | 66    |
|      | 92   | 7893   | 75           | 75 | 75 | 77 | 71 | 66 | 56 | 46 | 77   | 65    |
|      | 177  | 5822   | 73           | 74 | 74 | 77 | 71 | 63 | 53 | 43 | 76   | 65    |
|      | 234  | 3885   | 72           | 74 | 74 | 76 | 70 | 63 | 52 | 40 | 76   | 64    |
| 610  | 0    | 10391  | 79           | 78 | 78 | 79 | 75 | 71 | 63 | 54 | 80   | 68    |
|      | 107  | 8536   | 77           | 76 | 77 | 78 | 74 | 68 | 59 | 49 | 79   | 67    |
|      | 207  | 6297   | 75           | 75 | 76 | 78 | 73 | 66 | 56 | 46 | 78   | 67    |
|      | 274  | 4202   | 74           | 75 | 76 | 77 | 73 | 65 | 55 | 43 | 78   | 66    |
| 656  | 0    | 11175  | 81           | 80 | 80 | 80 | 77 | 73 | 66 | 57 | 82   | 70    |
|      | 124  | 9180   | 79           | 78 | 79 | 80 | 76 | 70 | 62 | 52 | 81   | 69    |
|      | 240  | 6772   | 77           | 77 | 78 | 80 | 75 | 68 | 59 | 49 | 80   | 69    |
|      | 317  | 4518   | 76           | 77 | 78 | 79 | 75 | 68 | 57 | 46 | 79   | 68    |
| 720  | 0    | 12265  | 83           | 83 | 83 | 82 | 79 | 76 | 69 | 60 | 84   | 73    |
|      | 150  | 10076  | 82           | 81 | 82 | 82 | 79 | 73 | 65 | 55 | 83   | 72    |
|      | 289  | 7432   | 79           | 80 | 81 | 82 | 78 | 71 | 62 | 52 | 82   | 71    |
|      | 382  | 4959   | 79           | 79 | 80 | 81 | 78 | 71 | 61 | 50 | 82   | 70    |
| 748  | 0    | 12742  | 84           | 84 | 84 | 83 | 81 | 77 | 70 | 61 | 85   | 74    |
|      | 162  | 10468  | 83           | 82 | 83 | 83 | 80 | 74 | 66 | 56 | 84   | 73    |
|      | 312  | 7721   | 81           | 81 | 82 | 82 | 80 | 72 | 63 | 53 | 83   | 72    |
|      | 412  | 5152   | 80           | 80 | 81 | 82 | 79 | 72 | 62 | 51 | 83   | 71    |
| 794  | 0    | 13525  | 85           | 86 | 85 | 85 | 82 | 78 | 73 | 64 | 87   | 75    |
|      | 182  | 11111  | 84           | 84 | 84 | 84 | 82 | 76 | 68 | 59 | 86   | 74    |
|      | 351  | 8196   | 82           | 82 | 83 | 83 | 81 | 74 | 66 | 56 | 85   | 74    |
|      | 464  | 5469   | 82           | 82 | 83 | 83 | 81 | 74 | 65 | 53 | 84   | 73    |
| 840  | 0    | 14309  | 87           | 86 | 87 | 86 | 84 | 80 | 75 | 66 | 88   | 77    |
|      | 204  | 11755  | 86           | 86 | 85 | 85 | 84 | 78 | 70 | 61 | 87   | 76    |
|      | 393  | 8671   | 84           | 84 | 85 | 85 | 83 | 76 | 68 | 58 | 87   | 75    |
|      | 519  | 5786   | 83           | 84 | 84 | 84 | 82 | 76 | 67 | 55 | 86   | 75    |
| 886  | 0    | 15092  | 88           | 89 | 88 | 87 | 85 | 81 | 76 | 67 | 90   | 78    |
|      | 227  | 12399  | 87           | 87 | 87 | 86 | 85 | 79 | 72 | 62 | 89   | 77    |
|      | 437  | 9146   | 85           | 85 | 86 | 86 | 85 | 78 | 70 | 60 | 88   | 77    |
|      | 578  | 6103   | 85           | 85 | 86 | 85 | 84 | 78 | 69 | 57 | 87   | 76    |
| 932  | 0    | 15876  | 89           | 91 | 90 | 88 | 87 | 82 | 78 | 69 | 91   | 80    |
|      | 251  | 13042  | 89           | 89 | 88 | 87 | 87 | 81 | 74 | 64 | 90   | 79    |
|      | 484  | 9621   | 87           | 87 | 87 | 87 | 87 | 80 | 71 | 61 | 90   | 78    |
|      | 640  | 6419   | 86           | 86 | 87 | 86 | 86 | 79 | 71 | 59 | 89   | 77    |
| 960  | 0    | 16353  | 90           | 92 | 91 | 89 | 88 | 83 | 79 | 70 | 92   | 80    |
|      | 266  | 13434  | 89           | 90 | 89 | 88 | 88 | 82 | 75 | 65 | 91   | 80    |
|      | 513  | 9910   | 88           | 87 | 88 | 87 | 88 | 81 | 72 | 62 | 90   | 79    |
|      | 679  | 6612   | 87           | 87 | 88 | 87 | 86 | 80 | 72 | 61 | 90   | 78    |
| 1024 | 0    | 17443  | 91           | 94 | 92 | 90 | 90 | 85 | 81 | 72 | 94   | 82    |
|      | 303  | 14330  | 91           | 92 | 91 | 89 | 90 | 84 | 78 | 68 | 93   | 81    |
|      | 584  | 10570  | 89           | 89 | 90 | 88 | 90 | 83 | 75 | 65 | 92   | 81    |
|      | 772  | 7053   | 89           | 89 | 89 | 88 | 88 | 82 | 74 | 63 | 92   | 80    |
| 1070 | 0    | 18227  | 92           | 95 | 93 | 91 | 91 | 86 | 83 | 74 | 95   | 83    |
|      | 331  | 14974  | 92           | 93 | 92 | 90 | 91 | 85 | 79 | 69 | 94   | 83    |
|      | 638  | 11045  | 91           | 90 | 91 | 89 | 91 | 84 | 76 | 66 | 94   | 82    |
|      | 843  | 7370   | 90           | 90 | 91 | 89 | 90 | 84 | 76 | 65 | 93   | 81    |
| 1116 | 0    | 19010  | 93           | 96 | 94 | 92 | 92 | 87 | 84 | 75 | 96   | 84    |
|      | 360  | 15617  | 93           | 94 | 92 | 91 | 92 | 86 | 80 | 71 | 95   | 84    |
|      | 694  | 11520  | 91           | 92 | 91 | 90 | 92 | 85 | 78 | 68 | 95   | 83    |
|      | 917  | 7687   | 91           | 91 | 91 | 90 | 91 | 85 | 77 | 66 | 94   | 82    |
| 1162 | 0    | 19794  | 94           | 97 | 95 | 93 | 93 | 88 | 85 | 77 | 97   | 85    |
|      | 390  | 16261  | 94           | 95 | 93 | 92 | 93 | 88 | 82 | 72 | 96   | 85    |
|      | 752  | 11995  | 92           | 93 | 92 | 91 | 93 | 87 | 79 | 69 | 95   | 84    |
|      | 994  | 8004   | 92           | 92 | 92 | 91 | 92 | 86 | 79 | 68 | 95   | 83    |
| 1208 | 0    | 20578  | 94           | 98 | 96 | 94 | 94 | 89 | 86 | 78 | 98   | 86    |
|      | 421  | 16905  | 94           | 96 | 94 | 93 | 94 | 89 | 83 | 74 | 97   | 85    |
|      | 813  | 12470  | 93           | 94 | 93 | 92 | 93 | 88 | 80 | 71 | 96   | 85    |
|      | 1074 | 8320   | 92           | 93 | 93 | 92 | 92 | 88 | 80 | 69 | 96   | 84    |
| 1250 | 0    | 21293  | 95           | 99 | 96 | 95 | 94 | 90 | 87 | 79 | 99   | 87    |
|      | 451  | 17493  | 95           | 97 | 94 | 94 | 94 | 90 | 84 | 75 | 98   | 86    |
|      | 870  | 12903  | 93           | 95 | 93 | 93 | 94 | 89 | 81 | 72 | 97   | 86    |
|      | 1150 | 8610   | 93           | 94 | 93 | 93 | 93 | 89 | 81 | 71 | 97   | 85    |

**CUS-750**

| RPM | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWiA | dB(A) |
|-----|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|     |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|     |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 330 | 0   | 7711   | 65           | 67 | 68 | 65 | 61 | 54 | 45 | 36 | 66   | 55    |
|     | 39  | 6335   | 63           | 65 | 67 | 64 | 58 | 50 | 40 | 30 | 65   | 53    |
|     | 75  | 4673   | 62           | 65 | 67 | 64 | 56 | 47 | 37 | 27 | 64   | 52    |
|     | 99  | 3118   | 62           | 64 | 66 | 63 | 56 | 46 | 34 | 23 | 63   | 52    |
| 368 | 0   | 8599   | 68           | 70 | 70 | 68 | 64 | 58 | 49 | 40 | 69   | 58    |
|     | 48  | 7064   | 66           | 68 | 70 | 68 | 62 | 54 | 44 | 34 | 68   | 56    |
|     | 93  | 5211   | 65           | 67 | 69 | 67 | 60 | 51 | 41 | 31 | 67   | 55    |
|     | 123 | 3477   | 65           | 67 | 68 | 66 | 59 | 50 | 39 | 27 | 66   | 55    |
| 406 | 0   | 9487   | 71           | 72 | 72 | 71 | 67 | 61 | 52 | 43 | 72   | 60    |
|     | 59  | 7794   | 69           | 71 | 72 | 71 | 65 | 57 | 47 | 38 | 71   | 59    |
|     | 113 | 5749   | 67           | 70 | 71 | 70 | 63 | 55 | 45 | 35 | 70   | 58    |
|     | 150 | 3836   | 67           | 70 | 71 | 69 | 63 | 54 | 42 | 31 | 69   | 58    |
| 444 | 0   | 10375  | 74           | 75 | 74 | 74 | 69 | 65 | 56 | 47 | 74   | 63    |
|     | 70  | 8523   | 72           | 73 | 74 | 73 | 67 | 61 | 51 | 41 | 73   | 62    |
|     | 136 | 6287   | 70           | 72 | 73 | 73 | 66 | 58 | 48 | 38 | 73   | 61    |
|     | 179 | 4195   | 70           | 72 | 72 | 72 | 66 | 57 | 46 | 34 | 72   | 60    |
| 482 | 0   | 11263  | 76           | 77 | 76 | 76 | 71 | 67 | 58 | 49 | 77   | 65    |
|     | 83  | 9253   | 75           | 75 | 75 | 76 | 70 | 64 | 54 | 44 | 76   | 64    |
|     | 160 | 6825   | 72           | 74 | 74 | 74 | 69 | 61 | 51 | 41 | 75   | 64    |
|     | 211 | 4554   | 72           | 74 | 74 | 75 | 68 | 60 | 49 | 38 | 74   | 63    |
| 520 | 0   | 12151  | 79           | 79 | 78 | 78 | 73 | 70 | 61 | 52 | 79   | 67    |
|     | 96  | 9982   | 77           | 77 | 77 | 78 | 72 | 66 | 56 | 46 | 78   | 67    |
|     | 186 | 7363   | 74           | 76 | 76 | 78 | 71 | 63 | 53 | 43 | 77   | 66    |
|     | 246 | 4913   | 74           | 76 | 76 | 77 | 71 | 63 | 51 | 40 | 76   | 65    |
| 558 | 0   | 13039  | 81           | 80 | 79 | 80 | 75 | 72 | 64 | 55 | 81   | 69    |
|     | 111 | 10712  | 79           | 79 | 78 | 80 | 74 | 69 | 59 | 49 | 80   | 68    |
|     | 214 | 7901   | 76           | 78 | 78 | 80 | 73 | 66 | 56 | 46 | 79   | 68    |
|     | 283 | 5272   | 76           | 77 | 77 | 79 | 73 | 65 | 54 | 43 | 79   | 67    |
| 596 | 0   | 13927  | 82           | 82 | 81 | 81 | 77 | 74 | 66 | 57 | 83   | 71    |
|     | 127 | 11441  | 81           | 80 | 80 | 81 | 76 | 71 | 61 | 51 | 82   | 70    |
|     | 244 | 8439   | 78           | 79 | 79 | 81 | 76 | 68 | 58 | 48 | 81   | 69    |
|     | 323 | 5631   | 78           | 79 | 79 | 80 | 75 | 68 | 57 | 46 | 80   | 69    |
| 634 | 0   | 14815  | 84           | 83 | 83 | 83 | 79 | 75 | 68 | 59 | 84   | 73    |
|     | 143 | 12170  | 82           | 81 | 82 | 83 | 78 | 72 | 64 | 54 | 83   | 72    |
|     | 276 | 8977   | 80           | 80 | 81 | 82 | 78 | 70 | 61 | 51 | 82   | 71    |
|     | 365 | 5990   | 79           | 80 | 81 | 81 | 77 | 70 | 59 | 48 | 82   | 70    |
| 672 | 0   | 15703  | 85           | 85 | 84 | 84 | 81 | 77 | 70 | 61 | 86   | 74    |
|     | 161 | 12900  | 84           | 83 | 83 | 84 | 80 | 74 | 66 | 56 | 85   | 73    |
|     | 311 | 9515   | 81           | 81 | 82 | 83 | 79 | 72 | 63 | 53 | 84   | 72    |
|     | 410 | 6349   | 81           | 81 | 82 | 83 | 79 | 72 | 61 | 50 | 83   | 72    |
| 720 | 0   | 16824  | 87           | 87 | 86 | 86 | 83 | 79 | 72 | 63 | 87   | 76    |
|     | 185 | 13821  | 86           | 85 | 85 | 85 | 82 | 76 | 68 | 58 | 86   | 75    |
|     | 356 | 10195  | 83           | 83 | 84 | 85 | 82 | 74 | 65 | 55 | 86   | 74    |
|     | 471 | 6803   | 83           | 83 | 84 | 84 | 81 | 74 | 64 | 53 | 85   | 74    |
| 748 | 0   | 17478  | 88           | 88 | 87 | 86 |    |    |    |    |      |       |

### CUS-900

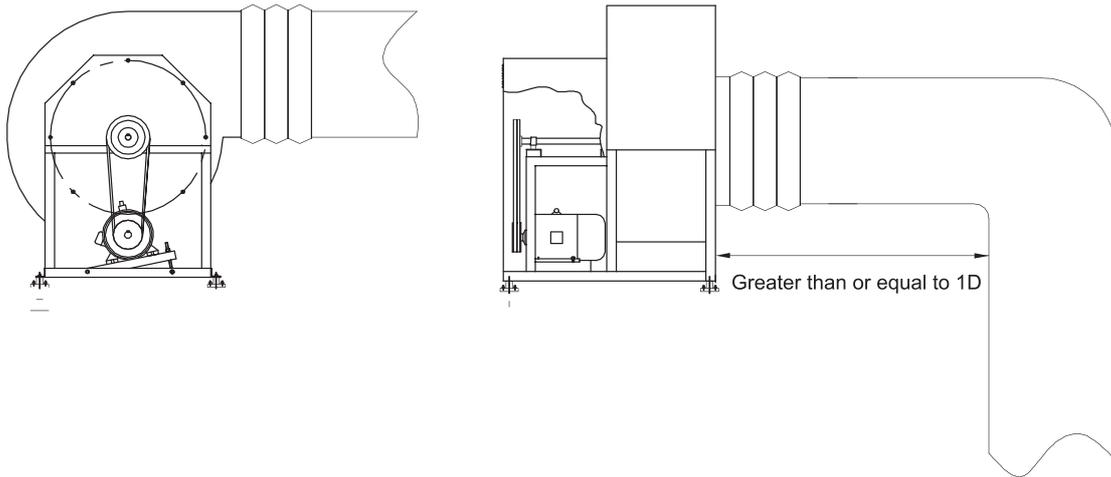
| RPM | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWIA | dB(A) |
|-----|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|     |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|     |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 270 | 0   | 8837   | 67           | 65 | 63 | 62 | 58 | 52 | 45 | 38 | 63   | 52    |
|     | 29  | 7287   | 64           | 62 | 60 | 59 | 55 | 48 | 40 | 32 | 60   | 48    |
|     | 63  | 5156   | 61           | 59 | 57 | 56 | 51 | 43 | 36 | 29 | 56   | 45    |
|     | 84  | 2831   | 61           | 60 | 58 | 55 | 50 | 42 | 35 | 28 | 56   | 45    |
| 302 | 0   | 9885   | 71           | 68 | 66 | 65 | 61 | 56 | 49 | 42 | 66   | 55    |
|     | 36  | 8150   | 68           | 65 | 63 | 62 | 58 | 52 | 44 | 36 | 63   | 52    |
|     | 79  | 5767   | 65           | 62 | 60 | 59 | 55 | 47 | 40 | 33 | 60   | 48    |
|     | 105 | 3166   | 65           | 63 | 61 | 58 | 54 | 46 | 39 | 32 | 59   | 48    |
| 334 | 0   | 10932  | 73           | 71 | 69 | 67 | 64 | 59 | 52 | 45 | 69   | 58    |
|     | 44  | 9014   | 70           | 68 | 66 | 64 | 61 | 55 | 47 | 39 | 66   | 54    |
|     | 97  | 6378   | 67           | 64 | 63 | 61 | 58 | 50 | 43 | 36 | 63   | 51    |
|     | 129 | 3502   | 67           | 65 | 64 | 61 | 57 | 49 | 42 | 35 | 62   | 51    |
| 366 | 0   | 11980  | 75           | 74 | 71 | 70 | 67 | 62 | 55 | 48 | 72   | 60    |
|     | 53  | 9877   | 72           | 71 | 68 | 67 | 64 | 58 | 50 | 42 | 68   | 57    |
|     | 117 | 6989   | 69           | 67 | 65 | 64 | 61 | 53 | 46 | 39 | 65   | 54    |
|     | 155 | 3837   | 69           | 68 | 66 | 64 | 60 | 52 | 45 | 38 | 65   | 53    |
| 398 | 0   | 13027  | 78           | 77 | 74 | 72 | 69 | 64 | 58 | 51 | 74   | 62    |
|     | 62  | 10741  | 75           | 74 | 71 | 69 | 66 | 61 | 53 | 45 | 71   | 59    |
|     | 138 | 7600   | 72           | 70 | 67 | 66 | 63 | 56 | 49 | 42 | 67   | 56    |
|     | 183 | 4173   | 72           | 71 | 68 | 66 | 62 | 55 | 48 | 41 | 67   | 56    |
| 430 | 0   | 14074  | 80           | 79 | 76 | 74 | 71 | 67 | 60 | 53 | 76   | 64    |
|     | 73  | 11605  | 77           | 76 | 73 | 71 | 68 | 63 | 55 | 47 | 73   | 61    |
|     | 161 | 8211   | 75           | 72 | 69 | 68 | 65 | 58 | 51 | 44 | 70   | 58    |
|     | 213 | 4508   | 75           | 73 | 70 | 68 | 64 | 57 | 50 | 43 | 69   | 58    |
| 462 | 0   | 15122  | 82           | 81 | 78 | 75 | 73 | 69 | 62 | 55 | 78   | 66    |
|     | 84  | 12468  | 80           | 78 | 75 | 72 | 70 | 65 | 58 | 50 | 75   | 63    |
|     | 186 | 8822   | 77           | 75 | 71 | 69 | 67 | 61 | 53 | 46 | 71   | 60    |
|     | 246 | 4844   | 77           | 75 | 72 | 70 | 66 | 60 | 52 | 45 | 71   | 60    |
| 494 | 0   | 16169  | 84           | 83 | 80 | 77 | 75 | 71 | 65 | 58 | 80   | 68    |
|     | 96  | 13332  | 82           | 80 | 77 | 74 | 72 | 67 | 60 | 52 | 77   | 65    |
|     | 212 | 9433   | 79           | 77 | 73 | 71 | 69 | 63 | 56 | 49 | 73   | 62    |
|     | 282 | 5179   | 79           | 77 | 74 | 72 | 68 | 62 | 55 | 48 | 73   | 62    |
| 526 | 0   | 17216  | 86           | 85 | 82 | 79 | 76 | 72 | 67 | 60 | 81   | 70    |
|     | 108 | 14195  | 84           | 82 | 79 | 76 | 73 | 69 | 62 | 54 | 78   | 67    |
|     | 241 | 10044  | 81           | 79 | 75 | 73 | 70 | 65 | 58 | 51 | 75   | 64    |
|     | 319 | 5515   | 81           | 79 | 76 | 73 | 70 | 64 | 57 | 50 | 75   | 64    |
| 558 | 0   | 18264  | 87           | 87 | 83 | 80 | 78 | 74 | 68 | 61 | 83   | 72    |
|     | 122 | 15059  | 86           | 84 | 80 | 77 | 75 | 71 | 64 | 56 | 80   | 68    |
|     | 271 | 10655  | 83           | 81 | 77 | 74 | 72 | 67 | 59 | 52 | 77   | 65    |
|     | 359 | 5850   | 83           | 81 | 78 | 75 | 71 | 66 | 58 | 51 | 77   | 65    |
| 590 | 0   | 19311  | 89           | 89 | 85 | 82 | 79 | 76 | 70 | 63 | 85   | 73    |
|     | 136 | 15922  | 87           | 86 | 82 | 79 | 76 | 73 | 66 | 58 | 81   | 70    |
|     | 303 | 11266  | 85           | 83 | 78 | 76 | 73 | 69 | 61 | 54 | 78   | 67    |
|     | 402 | 6186   | 85           | 83 | 79 | 76 | 73 | 68 | 60 | 53 | 78   | 67    |
| 622 | 0   | 20359  | 90           | 91 | 86 | 83 | 81 | 77 | 72 | 65 | 86   | 75    |
|     | 152 | 16786  | 89           | 88 | 83 | 80 | 78 | 74 | 68 | 60 | 83   | 71    |
|     | 337 | 11877  | 87           | 85 | 80 | 77 | 75 | 71 | 63 | 56 | 80   | 68    |
|     | 447 | 6521   | 87           | 85 | 81 | 78 | 74 | 70 | 62 | 55 | 80   | 68    |
| 654 | 0   | 21406  | 92           | 92 | 88 | 84 | 82 | 79 | 74 | 67 | 87   | 76    |
|     | 168 | 17650  | 91           | 89 | 85 | 81 | 79 | 76 | 69 | 61 | 84   | 73    |
|     | 372 | 12488  | 88           | 86 | 81 | 78 | 76 | 72 | 65 | 58 | 81   | 70    |
|     | 494 | 6857   | 88           | 86 | 82 | 79 | 76 | 71 | 64 | 57 | 81   | 70    |
| 686 | 0   | 22453  | 93           | 92 | 89 | 85 | 83 | 80 | 75 | 68 | 89   | 77    |
|     | 185 | 18513  | 92           | 89 | 86 | 82 | 80 | 77 | 71 | 63 | 86   | 74    |
|     | 410 | 13099  | 90           | 86 | 82 | 79 | 77 | 74 | 66 | 59 | 82   | 71    |
|     | 543 | 7192   | 90           | 86 | 83 | 80 | 77 | 73 | 65 | 58 | 83   | 71    |
| 720 | 0   | 23566  | 94           | 94 | 91 | 87 | 84 | 81 | 77 | 70 | 90   | 78    |
|     | 203 | 19431  | 93           | 91 | 88 | 84 | 81 | 78 | 73 | 65 | 87   | 75    |
|     | 451 | 13748  | 91           | 88 | 84 | 80 | 78 | 75 | 68 | 61 | 84   | 72    |
|     | 598 | 7549   | 91           | 88 | 85 | 81 | 78 | 75 | 67 | 60 | 84   | 72    |
| 750 | 0   | 24548  | 95           | 95 | 92 | 88 | 85 | 83 | 78 | 71 | 91   | 80    |
|     | 221 | 20240  | 94           | 92 | 89 | 85 | 82 | 80 | 74 | 66 | 88   | 76    |
|     | 490 | 14321  | 92           | 89 | 85 | 82 | 79 | 77 | 69 | 62 | 85   | 73    |
|     | 649 | 7863   | 92           | 89 | 86 | 83 | 80 | 76 | 68 | 61 | 85   | 74    |
| 782 | 0   | 25596  | 96           | 96 | 93 | 89 | 86 | 84 | 79 | 72 | 92   | 81    |
|     | 240 | 21104  | 95           | 93 | 90 | 86 | 83 | 81 | 75 | 67 | 89   | 78    |
|     | 532 | 14932  | 93           | 90 | 86 | 83 | 81 | 78 | 70 | 63 | 86   | 74    |
|     | 706 | 8199   | 93           | 90 | 87 | 84 | 81 | 77 | 69 | 62 | 86   | 75    |
| 814 | 0   | 26643  | 96           | 97 | 94 | 90 | 87 | 85 | 80 | 73 | 93   | 82    |
|     | 260 | 21968  | 95           | 94 | 91 | 87 | 84 | 82 | 76 | 69 | 90   | 79    |
|     | 577 | 15543  | 93           | 92 | 88 | 84 | 81 | 79 | 72 | 64 | 87   | 76    |
|     | 765 | 8534   | 93           | 92 | 88 | 85 | 82 | 78 | 71 | 63 | 87   | 76    |
| 846 | 0   | 27690  | 97           | 98 | 96 | 91 | 88 | 86 | 81 | 75 | 94   | 83    |
|     | 281 | 22831  | 96           | 96 | 93 | 88 | 85 | 83 | 77 | 70 | 91   | 80    |
|     | 623 | 16154  | 94           | 93 | 89 | 85 | 82 | 80 | 73 | 66 | 88   | 77    |
|     | 826 | 8870   | 94           | 93 | 90 | 86 | 83 | 79 | 72 | 65 | 88   | 77    |
| 880 | 0   | 28803  | 98           | 99 | 97 | 92 | 89 | 87 | 82 | 76 | 95   | 84    |
|     | 304 | 23749  | 97           | 97 | 94 | 89 | 86 | 84 | 79 | 71 | 92   | 81    |
|     | 674 | 16803  | 95           | 94 | 90 | 86 | 83 | 81 | 74 | 67 | 89   | 78    |
|     | 894 | 9226   | 95           | 94 | 91 | 87 | 84 | 80 | 73 | 66 | 90   | 78    |

### CUS-1000

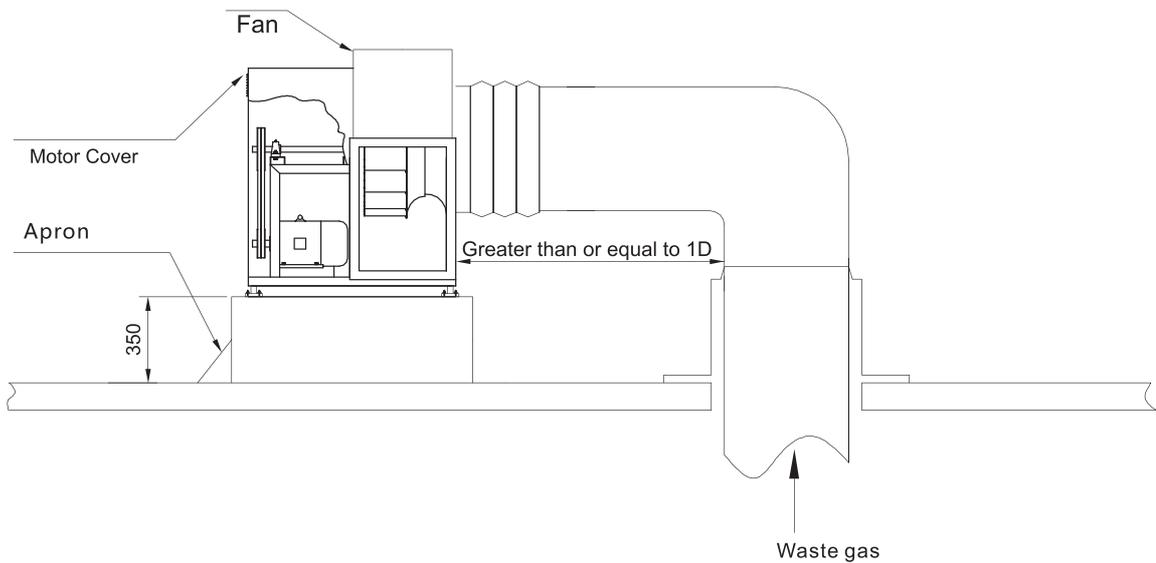
| RPM | Pa  | Volume | SOUND POWER  |    |    |    |    |    |    |    | LWIA | dB(A) |
|-----|-----|--------|--------------|----|----|----|----|----|----|----|------|-------|
|     |     |        | OCTAVE BANOS |    |    |    |    |    |    |    |      |       |
|     |     |        | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  |      |       |
| 245 | 0   | 13058  | 70           | 68 | 66 | 64 | 60 | 54 | 47 | 40 | 66   | 54    |
|     | 33  | 10766  | 67           | 65 | 63 | 61 | 57 | 50 | 42 | 34 | 62   | 51    |
|     | 72  | 7618   | 64           | 62 | 60 | 58 | 53 | 45 | 38 | 31 | 59   | 47    |
|     | 96  | 4183   | 64           | 63 | 61 | 58 | 52 | 44 | 37 | 30 | 58   | 47    |
| 274 | 0   | 14603  | 74           | 71 | 69 | 67 | 63 | 58 | 51 | 44 | 69   | 57    |
|     | 41  | 12041  | 71           | 68 | 66 | 64 | 60 | 53 | 45 | 37 | 65   | 54    |
|     | 90  | 8519   | 68           | 65 | 63 | 61 | 56 | 49 | 42 | 35 | 62   | 50    |
|     | 120 | 4678   | 68           | 66 | 64 | 61 | 55 | 48 | 41 | 34 | 62   | 50    |
| 303 | 0   | 16149  | 77           | 74 | 71 | 70 | 66 | 61 | 54 | 47 | 71   | 60    |
|     | 50  | 13315  | 74           | 71 | 68 | 67 | 63 | 57 | 49 | 41 | 68   | 57    |
|     | 111 | 9421   | 71           | 67 | 65 | 64 | 60 | 52 | 45 | 38 | 65   | 53    |
|     | 147 | 5173   | 71           | 68 | 66 | 64 | 59 | 51 | 44 | 37 | 65   | 53    |
| 332 | 0   | 17695  | 79           | 77 | 74 | 72 | 69 | 64 | 57 | 50 | 74   | 62    |
|     | 60  | 14589  | 76           | 74 | 71 | 69 | 66 | 60 | 52 | 44 | 71   | 59    |
|     | 133 | 10323  | 73           | 70 | 68 | 66 | 63 | 55 | 48 | 41 | 67   | 56    |
|     | 176 | 5668   | 73           | 71 | 69 | 66 | 62 | 54 | 47 | 40 | 67   | 56    |
| 361 | 0   | 19240  | 81           | 79 | 76 | 74 | 71 | 66 | 60 | 53 | 76   | 65    |
|     | 71  | 15864  | 78           | 76 | 73 | 71 | 68 | 63 | 55 | 47 | 73   | 62    |
|     | 157 | 11224  | 75           | 72 | 70 | 68 | 65 | 58 | 51 | 44 | 70   | 58    |
|     | 208 | 6163   | 75           | 73 | 71 | 68 | 64 | 57 | 50 | 43 | 70   | 58    |
| 390 | 0   | 20786  | 83           | 82 | 78 | 76 | 73 | 69 | 62 | 55 | 78   | 67    |
|     | 83  | 17138  | 80           | 79 | 75 | 73 | 70 | 65 | 57 | 49 | 75   | 64    |
|     | 183 | 12126  | 77           | 75 | 72 | 70 | 67 | 60 | 53 | 46 | 72   | 60    |
|     | 243 | 6658   | 77           | 76 | 73 | 70 | 67 | 59 | 52 | 45 | 72   | 60    |
| 419 | 0   | 22331  | 85           | 84 | 80 | 78 | 75 | 71 | 64 | 57 | 80   | 69    |
|     | 95  | 18413  | 82           | 81 | 77 | 75 | 72 | 67 | 60 | 52 | 77   | 66    |
|     | 211 | 13028  | 80           | 77 | 74 | 72 | 69 | 63 | 55 | 48 | 74   | 62    |
|     | 280 | 7153   | 80           | 78 | 75 | 72 | 68 | 62 | 54 | 47 | 74   | 62    |
| 448 | 0   | 23877  | 87           | 86 | 82 | 80 | 77 | 73 | 66 | 59 | 82   | 71    |
|     | 109 | 19687  | 85           | 83 | 79 | 77 | 74 | 69 | 62 | 54 | 79   | 67    |
|     | 242 | 13930  | 82           | 79 | 76 | 74 | 71 | 65 | 57 | 50 | 76   | 64    |
|     | 321 | 7648   | 82           | 80 | 77 | 74 | 70 | 64 | 56 | 49 | 76   | 64    |
| 477 | 0   | 25423  | 89           | 88 | 84 | 81 | 79 | 75 | 68 | 61 | 84   | 72    |
|     | 123 | 20961  | 87           | 85 | 81 | 78 | 76 | 71 | 64 | 56 | 81   | 69    |
|     | 274 | 14831  | 84           | 82 | 77 | 75 | 73 | 67 | 59 | 52 | 77   | 66    |
|     | 364 | 8143   | 84           | 82 | 78 | 76 | 72 | 66 | 58 | 51 | 77   | 66    |
| 506 | 0   | 26968  | 90           | 90 | 86 | 83 | 80 | 76 | 70 | 63 | 85   | 74    |
|     | 139 | 22236  | 88           | 87 | 83 | 80 | 77 | 73 | 66 | 58 | 82   | 71    |
|     | 308 | 15733  | 86           | 83 | 79 | 77 | 74 | 69 | 61 | 54 | 79   | 68    |
|     | 409 | 8638   | 86           | 84 | 80 | 77 | 74 | 68 | 60 | 53 | 79   | 68    |
| 535 | 0   | 28514  | 92           | 92 | 87 | 84 | 82 | 78 | 72 | 65 | 87   | 75    |
|     | 155 | 23510  | 90           | 89 | 84 | 81 | 79 | 74 | 68 | 60 | 84   | 72    |
|     | 345 | 16635  | 88           | 85 | 81 | 78 | 76 | 71 | 63 | 56 | 81   | 69    |
|     | 457 | 9133   | 88           | 86 | 82 | 79 | 75 | 70 | 62 | 55 | 81   | 69    |
| 564 | 0   | 30059  | 93           | 93 | 89 |    |    |    |    |    |      |       |

INFINAIR CUS fans are suitable for exhaust, supply and return-air applications. Facts show that INFINAIR fans can still run reliably even in a harsh environment. CUS fans can be used in treating both clean air and dirty contaminated air.

## ● Base mounted

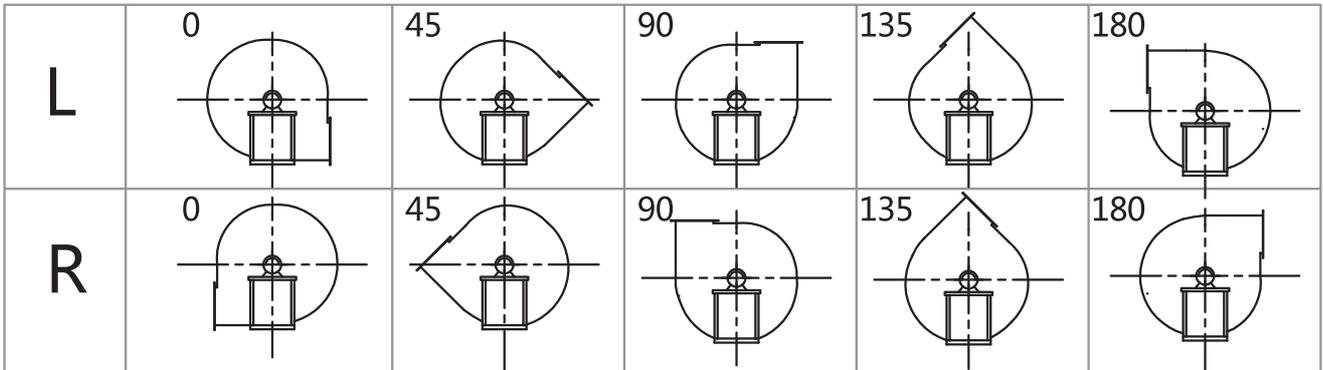


## ● Rooftop mounted



CUS fans are suitable for exhausting kitchen fumes in hotels. Before installation, the fans must be checked and cleaned to ensure the free rotation of the wheel. The fans shall not interfere with each other and can be well maintained. There shall be enough space left for removing the wheel and bearing. Rain cover shall be chosen for outdoor installation to protect the electrical components.

## Optional Discharge Directions



The rotation is identified from the view of the motor side. The rotation must be specified before placing orders; otherwise, the undesired rotation may cause installation problems.

## Motor Weight 50/60 Hz

| Power (kW) | Motor Weight (kg) |      |      |     |
|------------|-------------------|------|------|-----|
|            | 2P                | 4P   | 6P   | 8P  |
| 0.18       | 14                | 13.5 | 14   | 16  |
| 0.25       | 14.5              | 14   | 14.5 | 17  |
| 0.37       | 15                | 14.5 | 16   | 24  |
| 0.55       | 15.5              | 15   | 17   | 28  |
| 0.75       | 15                | 16   | 22   | 30  |
| 1.1        | 16                | 21   | 24   | 32  |
| 1.5        | 21                | 23   | 32   | 40  |
| 2.2        | 24                | 33   | 41   | 64  |
| 3          | 33                | 35   | 63   | 78  |
| 4          | 41                | 41   | 72   | 105 |
| 5.5        | 63                | 65   | 81   | 115 |
| 7.5        | 70                | 76   | 118  | 145 |
| 11         | 110               | 118  | 145  | 160 |

Note: All dimensions, motor or fans weights and motor frame sizes are subjected to change from project to project, please call INFINAIR staff to support your request and information needed about your project

## ● Section 1: Quality Standards

The SWSI centrifugal fans 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. The manufacturer shall be certified by ISO 9001:2000.

## ● Section 2: Fan Type

The fan shall be direct or belt drive type, with an aluminum backward inclined centrifugal wheel. The inlet cone shall have a curved section to ensure smooth air movement. Each wheel shall be statically and dynamically balanced up to grade G 2.5 as per ISO 1940.

## ● Section 3: Housing Material

The fan housing shall be constructed of steel. It shall be thick and strong enough to support the drive mechanism and motor. The scroll shall be continuously welded. The fan surface shall go through the processes of alkaline wash and Parkerizing and be finished with electrostatic epoxy coatings in black or other colors specified by customers.

## ● Section 4: Drive Mechanism (For belt drive type only)

**Shaft:** The shaft shall be heat treated through homogenizing furnace to the hardness level of HB370, and hard film shall be applied on the surface to avoid corrosion. It shall also be dynamically tested together with the wheel. The design speed of the shaft shall be at least 25% more than the maximum running speed of the fan.

**Pulleys:** 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. Pulleys shall also be adjustable on the jobsite. Conical type bushings shall be equipped for easy removal of the pulleys.

**Bearings:** Two bearings shall be used to support the fan shaft to avoid vibrations directly coming onto the motor. The bearing L10 rating life shall be 50,000 hours at the maximum operating speed specified in the catalog. The bearing shall be of permanently sealed type and metal pillow block ball bearing that can be lubricated.

**Drive Support:** Drive mechanism shall be supported by heavy gauge 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.

**Protections :** Standard belt drive CUS fans that include a shaft/bearing guard and belt guard are for indoor installation. For outdoor installation, there shall be a rain cover that offers total protection for the motor and other driving parts.

- **Section 5: Motor**

The motor shall be carefully matched to the fan load. It shall be IP55 rated with Class F Insulation. The motor bearing shall be of ball type that can be lubricated. Out of the air stream shall the motor and drive mechanism be located to avoid grease or dirt accumulation.

- **Section 6: Structure**

The fan shall include AMCA Type B spark resistant construction. Both the wheel and inlet shall be constructed of aluminum. Access door: An access door must be provided for the scroll to remove possible foreign bodies inside of the fan. The platform on which the fan is placed shall be a stable and level one and vibration isolators shall be used for connection. The pre-embedded fixing method shall not be required.

- **Section 7: 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.

- **Section 8: Qualified Suppliers**

INFINAIR or similar products supplied are designed based on Model CUS of INFINAIR.

# **INFINAIR™**

**INFINAIR ARABIA CO. LTD.**



**INFINAIR FANS ARE YOUR BEST CHOICE  
HIGH QUALITY PRODUCTS**

**CUS-06.JUL-2022-V03**

**INFINAIR™**

**INFINAIR ARABIA CO. LTD**

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