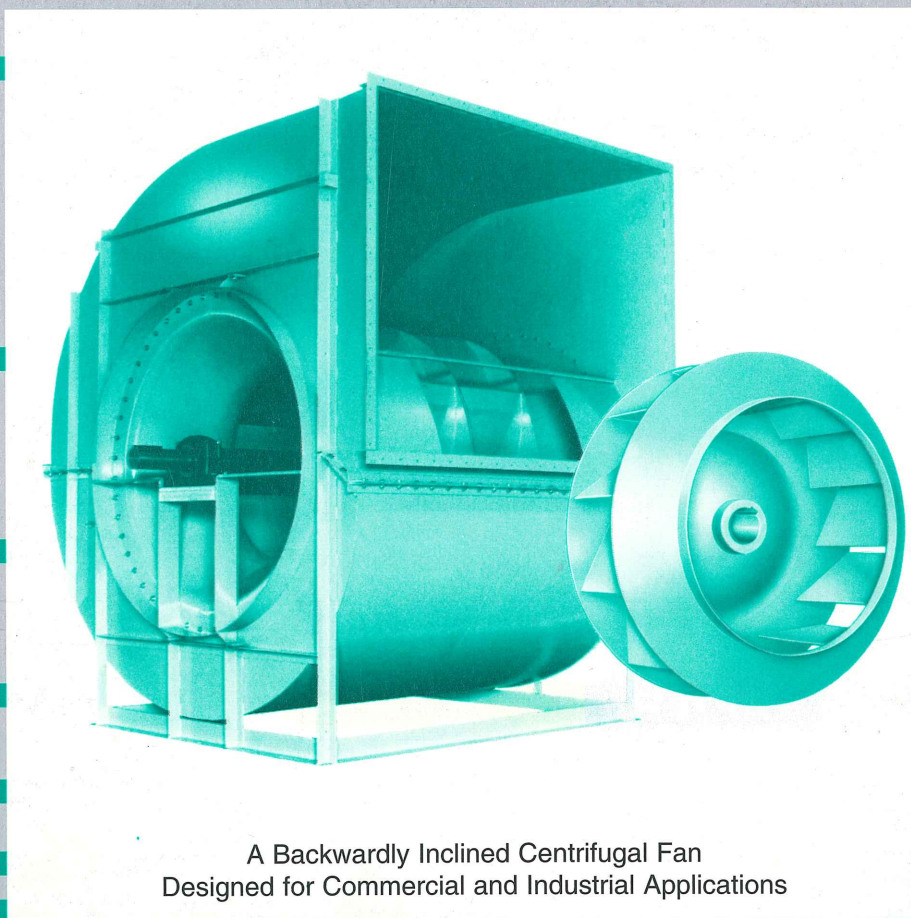


# **SILENTVANE™**

## **3000 SERIES**



A Backwardly Inclined Centrifugal Fan  
Designed for Commercial and Industrial Applications

**ACME**

**ACME ENGINEERING & MANUFACTURING CORP.**  
MUSKOGEE, OKLAHOMA

Licensed to bear the AMCA seal for Sound and Air Performance

# Quality and Service that will Blow you Away!

## Industry Leadership

Founded in 1938, Acme Engineering and Manufacturing Corporation is known worldwide as a leader in the manufacture of fans, blowers, and ventilation equipment. Acme's growth over the past half century is a tribute to superior quality, customer loyalty, and dedicated employees and sales representatives.

Today, from its headquarters in Muskogee, Oklahoma, Acme serves customers worldwide with high quality air movement and control products.

## Manufacturing

With approximately 350,000 square feet of manufacturing space, Acme produces one of the broadest lines of air moving equipment in the industry. State-of-the-art manufacturing equipment and a well trained, experienced workforce is the key to Acme's timely delivery of quality air moving products.

## Engineering

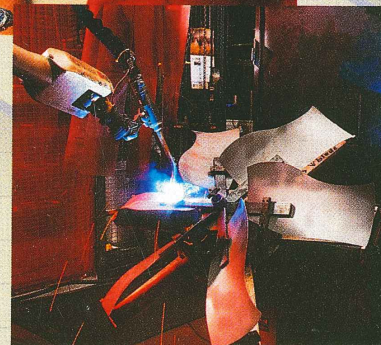
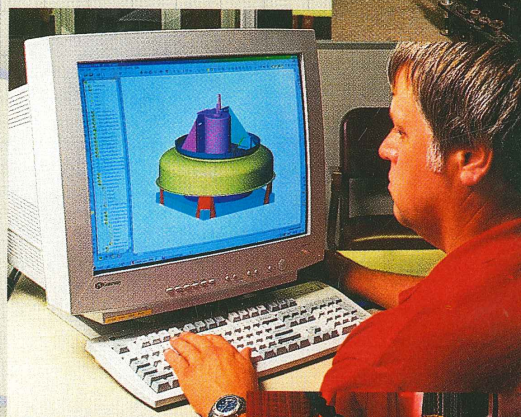
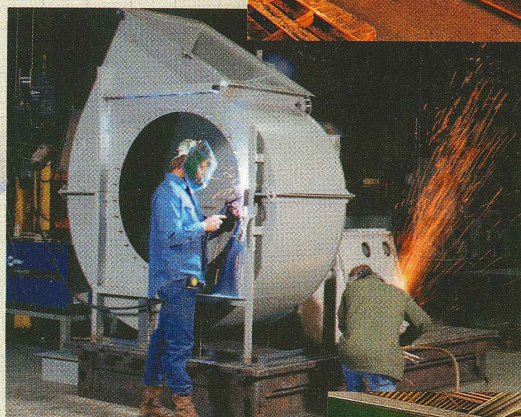
The Acme Research and Engineering Center operates both air and sound laboratories. The Center houses four wind tunnels with a data acquisition system, a reverberant sound room with the latest sound analyzer equipment, and a structural laboratory for stress and vibration analysis. Solid modeling, and finite element analysis support product research and development. The Center also houses a fully equipped prototype facility enabling Acme to develop and introduce new products to the market in the shortest time possible.

## Sales & Service

A factory trained, knowledgeable sales organization addresses the needs of many diverse and distinct markets. Customers around the world are serviced by a complete system of sales representatives, equipment distributors and local dealers supported by nationwide distribution centers and backed by a staff of sales and marketing professionals.

## Quality

A highly trained engineering and production staff set the standard for dependable, quality air moving products. By using the latest computer techniques for research and design, and rigorous quality control standards Acme can offer one of the best warranty programs in the industry. Our exclusive 2/5 year limited warranty provides our customers with confidence... Year After Year.



SYMBOL  
OF QUALITY

# 3000 SERIES

## DESIGN FEATURES

### GENERAL

SILENTVANE™ series Backwardly Inclined Fans are of outstanding centrifugal fan design. Aerodynamically designed wheels allow more air to be handled for less horsepower. This fan has been designed for handling large volumes of air over a wide range of pressure requirements at a low operating cost.

### EFFICIENCY

Most important is sustained high efficiency over the range of optimum selection. The ultimate measure of fan performance is operating efficiency. High efficiency means low operating costs throughout the life of the equipment. Normal selection is slightly to the right of peak efficiency, thereby assuring adequate pressure reserve.

### HORSEPOWER

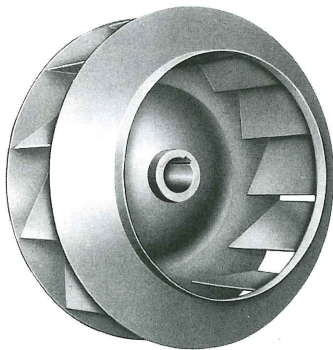
The horsepower curve is self-limiting and reaches a maximum in the normal selection range at a given speed. This permits the selection of motors based on brake horsepower requirements without danger of overload at that speed.

### QUIET OPERATION

Precise orientation of wheel blades, combined with careful aerodynamic design of wheel and casing, decreases air turbulence and increases pressure conversion efficiency. The result is a quieter operating fan.

### BACKWARDLY INCLINED BLADING

Flat B.I. blading provides full streamline airflow for greater operating efficiency and perceptibly quieter performance. The B.I. wheel can be used for a wide range of applications including light dust environments, generally without build-up and eventual unbalance.



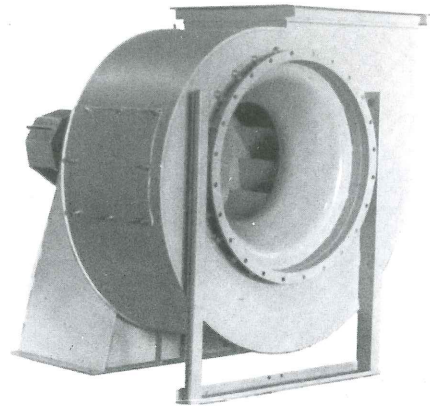
3000 Series B.I.

## THESE ACROSS THE BOARD BACKWARDLY INCLINED ADVANTAGES . . .

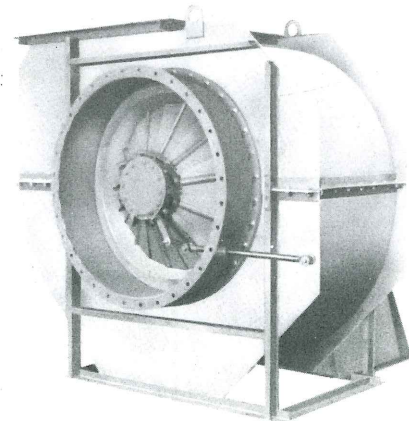
- Efficient economical backwardly inclined wheel design for moving large volumes of air at a wide range of pressure requirements.
- Non-overloading horsepower characteristics.
- Increased stability of operation due to steeply rising pressure curve which minimizes volume variation to changes in system resistance.
- Can be utilized for light dust applications, generally without build-up.

## ADD UP TO . . .

- **Real Savings . . .** low initial cost . . . minimum operating expense . . . minimum maintenance expense.



General Purpose . . . for medium pressures.



Heavy Duty . . . for maximum pressures.



Acme Engineering and Manufacturing Corporation, Industrial Products Division, certifies that the 3000 Series fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. For Sound Performance Data refer to Sound Bulletin S81.

# SILENTVANE™

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## TYPICAL CONSTRUCTION FEATURES GENERAL PURPOSE FAN

### BEARINGS

Self-aligning, grease lubricated, anti-friction bearings are standard. Minimum starting friction, simple maintenance and long trouble-free life expectancy make them ideal for fan service. In general, ball bearings are used for the higher speeds and roller bearings for heavy loads and at slower speed.

### SPUN INLETS

Deep streamlined inlets reduce incoming air turbulence and losses to a minimum. Overlapping of the inlet with the contoured wheel rims allows air to move into the wheel without obstruction.

### REINFORCING BRACES

Angle bracing, which essentially forms a beam section, eliminates the possibility of casing pulsation and vibration. In certain fan sizes, the bracing angles are used to permit simple connection of square or rectangular ducts directly to the fan.

This eliminates the usual duct transition piece.

### HOUSING DESIGN

The spiral shaped housing is designed to receive the air leaving the wheel and reduce its velocity with a minimum of turbulence, thereby efficiently converting the velocity pressure to static pressure for increased performance.

### CUTOFF

The discharge cutoff is specially shaped for maximum efficiency and strength.

### WHEEL CONSTRUCTION

Single thickness backwardly inclined design plus streamlined airflow over the blade surfaces, provide a non-overloading power characteristic approaching true airfoil efficiency.

Wheels have flat backwardly inclined blades welded to back plate and rims to provide a particularly rigid assembly, well suited for a wide range of air handling and light dust applications, generally without build-up and eventual unbalance.

To insure smooth operation, all wheels are statically and dynamically balanced.

### SHAFTS

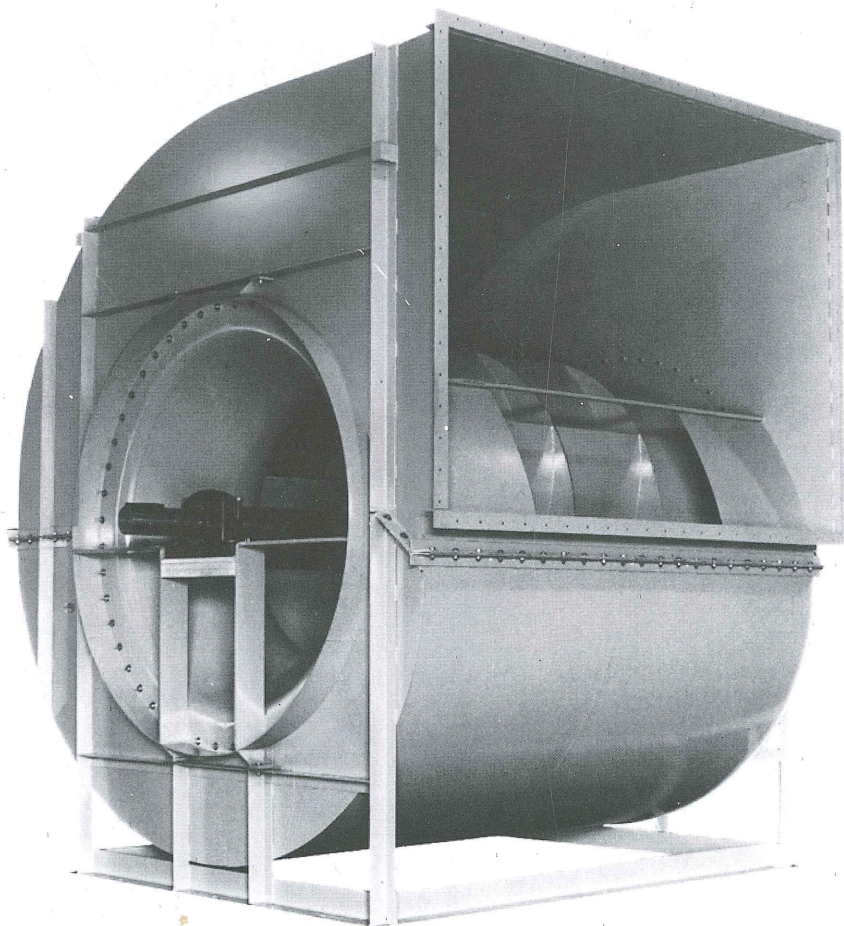
Shafts are fabricated from medium carbon steel (larger fans utilize forged shafts) and all are carefully turned, ground and polished to size. All shafts are correctly designed to give safe deflection and operate well below the first critical speeds.

### BASE

The base is fabricated from steel angles for maximum support and stiffness.

### HEAVY BEARING SUPPORT

Heavy steel bearing supports maintain accurate alignment, prevent bearing distortion and offer a minimum of resistance to airflow.

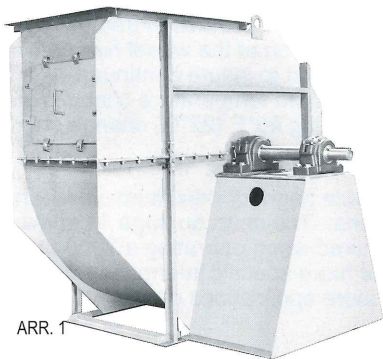


# 3000 SERIES

## ARRANGEMENTS

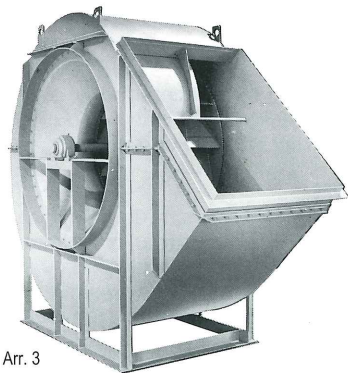
### SINGLE WIDTH (SWSI)

**Arrangement 1...** Belt driven fan with wheel overhung, has two bearings mounted on a pedestal. This arrangement is generally used for industrial applications and is the preferred arrangement for corrosive gas applications or for handling gases at elevated temperatures since no bearings are located in the inlet. Available in sizes 3012 through 3081, Classes I and II, and sizes 3018 through 3073, Classes III and IV. All sizes are suitable for belt or direct drive (Arr. 8).



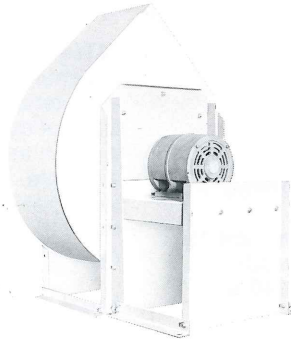
ARR. 1

**Arrangement 3...** Single width fans are belt driven with bearings supported by heavy steel members on each side of the fan housing. This arrangement is generally used for ventilation, air conditioning and clean ambient air applications, since the bearings are located in the airstream. Available in sizes 3012 through 3081 for Classes I and II, and sizes 3018 through 3073 for Classes III and IV.



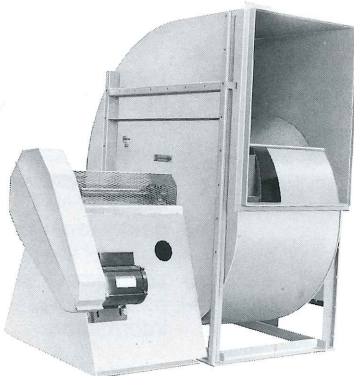
Arr. 3

**Arrangement 4...** Direct driven, has fan wheel overhung on motor shaft and motor mounted on a pedestal. Available in Classes I and II in sizes 3012 through 3037 only.



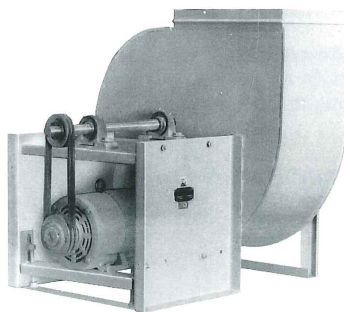
ARR. 4

**Arrangement 9...** Similar in construction and application to Arrangement 1, except the fan assembly has provision for mounting the motor on the side of the bearing support pedestal. Mounting the motor integral with the fan provides a package which uses a minimum of floor area and is easily movable. Available in sizes 3012 through 3081, Classes I and II, and sizes 3018 through 3073, Classes III and IV. Limited by maximum motor frame.



ARR. 9

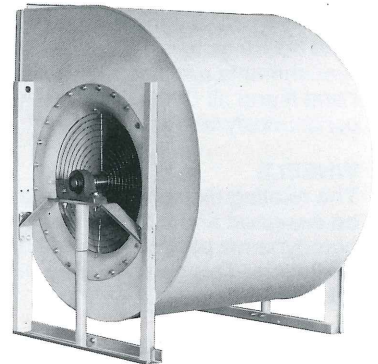
**Arrangement 10...** Similar to Arrangement 9, except that the motor is mounted within the bearing support base. This package fan uses a minimum of floor space, protects the motor and is available with a weather cover or belt guard. Furnished in Classes I and II, sizes 3012 through 3066. Class III construction also available.



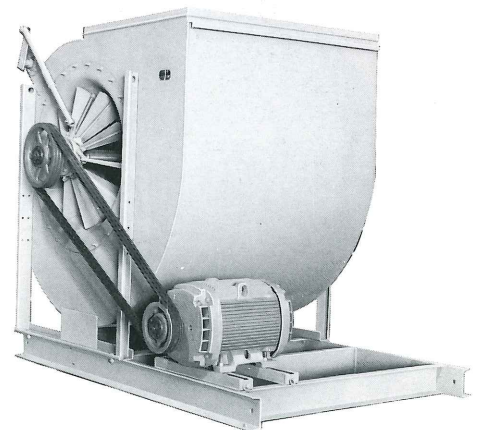
ARR. 10

### DOUBLE WIDTH (DWDI)

**Arrangement 3...** Belt driven with both bearings mounted in the inlets. Similar in construction and application to Arrangement 3, SWSI. Double width fans deliver a maximum volume of air with a minimum amount of space required. Available in sizes 3012 through 3081, Classes I and II, and sizes 3027 through 3073, Class III.



General purpose, Arrangement 3, Double Width, Double Inlet fan.



Arrangement 3, Double Width, Double Inlet Fan, with inlet vane controls and interconnecting linkage, featuring optional subbase with adjustable motor slide rails.

**Other Arrangements Available...** Arrangements 7 and 8 are direct driven with the motor mounted on a motor base. Bearings are located in the airstream in Arrangement 7, both SWSI and DWDI, and on a pedestal base in Arrangement 8. The application of these fans is similar to that of Arrangements 3 and 1 respectively. Arrangements 7 and 8 are, in effect, direct driven packaged fans.

# SILENTVANE™

## FAN CONSTRUCTION

### HOUSING

All SWSI and DWDI housings are fabricated from rigidly braced steel and provided with streamlined spun inlets which guide the air into the wheel with a minimum of interference.

Either fixed or rotatable discharge housings are available for sizes 3012 through 3037, both single and double width. Fixed discharge housings are standard for sizes 3040 and larger, and are continuously welded.

Housings are fabricated using intermittent or continuously welded types of construction depending on fan size or class. Split housings to meet specific job and/or shipping requirements are also available. Size 3040 and larger Class I and II and all Class III and IV, SWSI or DWDI housings are continuously welded.

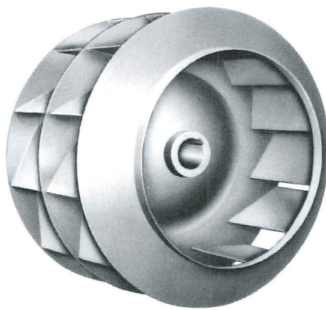
### WHEELS

The rotating elements of a fan are most important and must be designed and fabricated to provide the highest practical aerodynamic performance with smooth vibration-free operation. This complete line of backward inclined wheels features:

- Shock-free airflow, minimizing turbulence and sound.
- Hubs designed to guide the air into the blades.
- Wheels statically and dynamically balanced.



3000 SWSI



3000 DWDI

### 3000 DWDI AND SWSI WHEELS

SWSI 3000 Series and DWDI 3000 Series backwardly inclined wheels with cone shaped hubs for smooth air intake. Heavy duty Class III and IV wheels may be furnished with extra reinforcing rims for superior strength.

Welding of the single thickness backwardly inclined blades to the wheel back or center plate and rim(s) provides the necessary strength and rigidity for all classes of construction.

### INTENDED SERVICE

In general, fans are built to suit the service for which they are intended to perform. Variations in rotation, discharge, class of construction, arrangements, bearing type and location are but a few of the many different options that are available. Fans may also be built to handle air at elevated temperatures or with protective coatings or special metals to resist the effects of corrosive air or gases, or with spark resistant construction.

### HIGH TEMPERATURE FANS

Series 3000 fans are available for handling air at temperatures up to 800°F (427°C). The correct fan arrangement, special construction, and limitations placed upon the maximum operating speeds are important considerations that must be taken into account when elevated temperatures are involved.

In addition, particularly with larger fans, the temperature rate of change required to be handled becomes extremely important. The rates of expansion of the wheel hub and shaft must be carefully reviewed to insure continued trouble-free operation. Maximum temperature change for any 10 minute period exceeding 40°F (22°C) change should be referred to the factory.

Refer to top of capacity table page for maximum class fan RPM at standard conditions. The chart on page 11 shows the RPM corrections required when operating a 3000 fan above 150°F (66°C). For more specific information concerning high temperature applications consult your local ACME Representative.

### PROTECTIVE COATINGS

Standard finish for SILENTVANE™ 3000 Series fans consists of one primer and overcoat of gray acrylic alkyd paint applied inside and out. An aluminum silicone paint or equal is applied for high temperature applications exceeding 300°F (149°C). Industrial use of fans handling corrosive gases requires special consideration in the construction and finish of the fans. Fans are available with neoprene, phenolic, vinyl, epoxy and special paints to meet most applications. Refer to factory for additional coating information.

### SPECIAL METALS

SILENTVANE™ fans can be constructed of stainless steel, aluminum and other special metals. Fans constructed of special metals are used in applications where a standard fan with a special coating will not give satisfactory results. Fans of special metals are generally higher in first cost, but may be justified because life expectancy is increased. When non-standard materials are used to fabricate the wheel and/or shaft, the "Maximum Design RPM" may also change. See Application Data for correct RPM or contact Acme.

### SPARK RESISTANT FANS

Application of fans on systems where hazardous, explosive or flammable conditions exist requires careful attention on the part of the designer, manufacturer and installer. SILENTVANE™ fans are available with spark resistant construction as covered by the following table. Fans with this construction are only available in arrangements 1, 4, 8, 9 and 10. Aluminum wheels for Type A or B construction are available for Class I, II, and III fans in sizes 3012 through 3081. Type C construction is available for all sizes and classes.

# 3000 SERIES

Table of Standard Classifications for Spark Resistant Construction.	
Type A...	All parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material. Steps must also be taken to assure that the wheel, bearings, and shaft are adequately attached and/or restrained to prevent a lateral or axial shift in these components.
Type B...	The fan shall have a non-ferrous wheel and non-ferrous ring about the opening through which the shaft passes. Ferrous hubs, shafts and hardware are allowed if construction is such that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike. Steps must also be taken to assure that the wheel, bearings, and shaft are adequately attached and/or restrained to prevent a lateral or axial shift in these components.
Type C...	The fan shall be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike.
Notes:	<ol style="list-style-type: none"><li>1. Bearings shall not be placed in the air or gas stream.</li><li>2. The user shall electrically ground all fan parts.</li><li>3. Explosion proof motors and static resistant belts should be used.</li></ol>

Refer to AMCA Standard 99-0401-86 for more detailed information.

Fans must be installed with all fan parts electrically grounded.

## PHYSICAL DATA

AMCA Standard 99-2408-69 defines three performance Classes, I through III. Class IV is defined by Acme.

### Housings

#### Class I and II Fans

Sizes 3012 through 3037 SWSI or DWDI, tack welded, beaded seams. Continuous welding optional.

Sizes 3040 and larger, SWSI or DWDI, continuous welded seams.

#### Class III and IV Fans

All sizes, SWSI or DWDI, continuous welded seams.

### Inlets

SWSI fans, Class I and II are furnished with circular Slip Joint Inlets as standard (Arr. 1, 4, 8, 9 and 10). The above applies to all fan Arrangements, except 3 and 7, which for Class I and II, sizes 12-37 have a round flange punched inlet as standard for both SW and DW. For Arr. 3 and 7, Class I and II, SW or DW, Sizes 40-81, the standard inlet is a square flange open type unpunched. For Class III and IV, all arrangements, a round flanged punched inlet is standard, punched to Acme standard pattern.

### Outlets

Slip joint outlets are standard for Class I and II fans. Flanged outlets are standard for Classes III and IV and an available option for Classes I and II. If a flanged type outlet damper is specified, a fan outlet flange is also required. Outlet is unpunched.

### Wheels

#### Class I, II, III and IV Fans

All SWSI or DWDI wheels are fabricated with flat single thickness blades.

### Blades

Wheel blades are welded to the rim, center or backplate.

### Hubs

Hubs are fabricated from steel bar and plate or cast iron.

### Shafts

Turned, ground and polished of SAE 1045 medium carbon steel, designed to operate well below and away from the first critical speeds.

### Shaft Seals

Standard design shaft seal consists of a flat, non-asbestos type gasket material secured by a flat steel retaining plate to the fan housing. Standard shaft seals are designed to reduce but not eliminate the amount of air leakage past the shaft. Consult factory when air tight shaft seal designs are required.

### Bearings

#### Class I and II Fans

All sizes and arrangements, SWSI or DWDI, are supplied with pillow block type, ball or roller bearings as standard.

#### Class III and IV Fans

All sizes and arrangements, SWSI or DWDI, are supplied with heavy duty, pillow block type, roller bearings as standard.

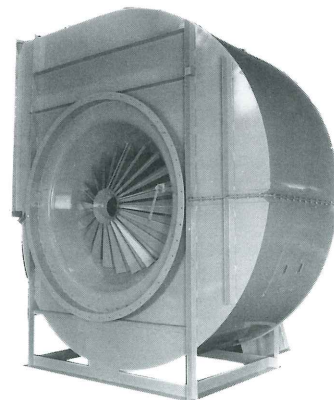
With proper belt tension, Acme bearings are rated at a L-10 life of 40,000 hours. However, certain high speed and high horsepower configurations may lead to reduced bearing life. Your Acme Representative can furnish information on the actual bearing selection for a given configuration along with bearing life estimates. L-10 lives of 80,000 hours (L-50, 400,000 hours) are available options.

### Outlet Dampers

Dampers for all sizes and arrangements, SWSI or DWDI, have independent frames and a flange type duct connection. The blades are interconnected and operate with flanged type, sealed and permanently lubricated bearings.

### Inlet Vane Controls

IVC's are available in either nested, internally mounted, or separately encased, externally mounted type designs, for fan size, width, class, and arrangement as required. All IVC's are available with single point operation for either manual or automatic control. Standard design for both nested and external type, Classes I through IV, consist of heavy construction suitable for clean air or gas applications.

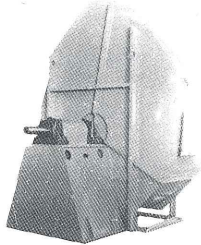


Arrangement 1, SWSI, Class III fan with rigidly braced housing, split for ease of wheel removal and inlet vane control.

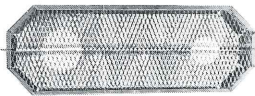
# SILENTVANE™

## OPTIONAL ACCESSORIES

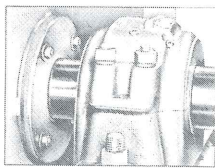
- Access Doors
- Special Coatings
- Coupling Guards
- Extended Lube Fittings
- Flanged Inlet & Outlet
- Heat Shield
- High Temp. Construction
- Housing Extensions
- Inlet & Outlet Screens
- Inlet Boxes
- Inlet Vane Controls
- Motor & V-Belt Drives
- Outlet Dampers
- Shaft & Bearing Guards
- Shaft Seals
- Spark Resistant Const.
- Special Bearings
- Special Nameplates
- Special Widths
- Split Housings
- Std. & Flanged Drains
- Unitary Subbases
- V-Belt Drive Guards
- Weather Covers



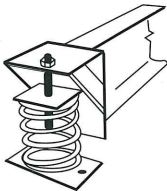
Split Housing



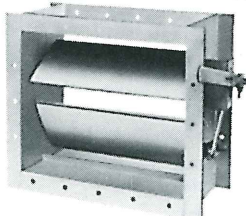
Drive Guards



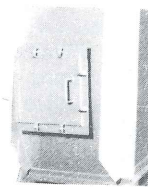
Shaft Seal



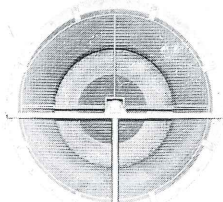
Vibration Equipment



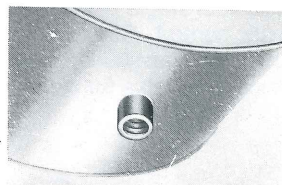
Outlet Dampers



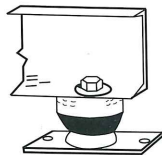
Access Doors



Screens



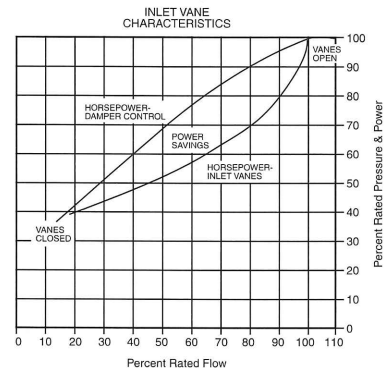
Drain



## INLET VANE CONTROL (IVC)

Vane control is a simple and efficient means of regulating fan output over a wide range of operating conditions. It combines the advantages of instantaneous regulation of fan capacity (to meet exact pressure and volume requirements of the system) with substantial power savings during those periods when the full rated delivery of the fan is not required. Vanes may be operated automatically or manually without shutting the fan down. Vane control is available for all fan sizes.

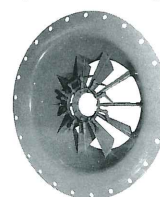
The control of fan output by movable inlet vanes has been accepted as one of the most economical means of varying fan capacity at high efficiency.



Typical Inlet Vane Control Horsepower Curve illustrating power savings.

### Inlet Vane Control offers these advantages for Variable Air Volume Systems:

- **Immediate Response...** Vane control effects a change in fan pressure and volume without requiring a speed change of either the fan or motor.
- **Saves Power...** As the vanes are closed, a reduction in fan output occurs, with a resulting lower motor power input.
- **Quietness...** Overall sound level will not increase substantially from full open to the closed vane position.
- **Present-Future Operation...** Partially closed vanes permit use of a fan without change for present low occupancy or load. Vanes can be opened as load increases.
- **Usable at all times...** Vanes may be operated without shutting down the fan, ensuring continuous system performance.
- **Stabilizes Fan...** Partially closed vanes steepen the fan curve, minimizing volume variation when the system resistance changes.
- **Simple...** Regulating fan output by vane control permits the use of highly efficient squirrel cage motor and simple starting equipment.
- **Economical...** Vane control is a most economical means of controlling fan capacity by combining power savings with low first cost.



Internal (Nested) IVC



External IVC with stub shaft and lever

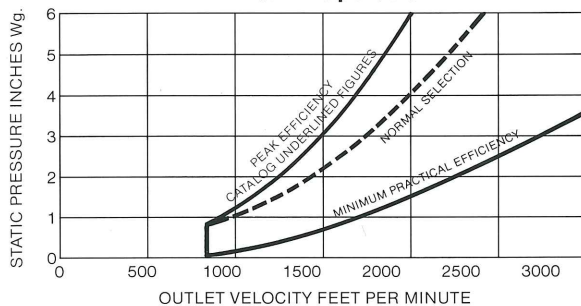
# 3000 SERIES

## SELECTION AND APPLICATION

Efficient fan selection minimizes internal energy losses and sound generation. Acoustical laboratory tests confirm that low sound output occurs at high operating efficiency. The underlined figures in each pressure column of the performance table are near peak efficiency. Fan selections near the peak efficiency provide low sound output consistent with adequate pressure reserve and self-limiting horsepower - another advantage of carefully coordinated design.

**Selection for relatively quiet operation...** Selection at higher efficiencies minimizes sound generation. For lower sound output, together with other benefits of low power consumption and operating cost throughout fan life, select fans near **Normal Selection Curve**. When higher sound levels are acceptable, together with smaller fans and higher operating costs selection can be made at lower efficiencies. Under these circumstances, sound attenuation may be desirable.

**Recommended Outlet Velocities  
For Quiet Operation**

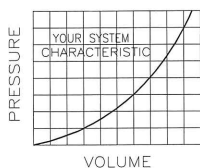


## SELECTION CONSIDERATIONS

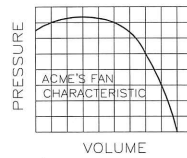
Selection of the proper fan for a given application involves not only the operating characteristics of the fan, but a careful analysis of first cost versus operating cost, as well as expected life, quietness of operation, location of equipment and any other job limitations. Generally speaking, permanent types of fan installations such as public buildings, schools, or hospitals are expected to operate for many years, during which time operating and maintenance costs can be substantial factors. Quite often an analysis of first cost versus operating costs for the life expectancy of the fan can justify a higher initial investment using a larger fan with higher efficiency. Industrial applications, on the other hand, have indeterminate life expectancies and often permit smaller fans to be selected at lower efficiencies. Each installation should be thoroughly analyzed in its design stage to insure that the ultimate objective is accomplished.

### ACME'S FAN... YOUR SYSTEM

Fan selections are based on static pressure capability when handling a given volume of air. The static pressure is calculated for each system by following certain accepted industry practices. This calculation of static pressure is at best an inexact science with the error often compounded by the addition of safety factors.

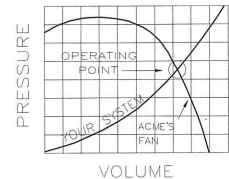


If the system pressure requirements for a given volume of flow is known, the system characteristic curve is a parabola and can be predicted mathematically. Such a system curve is illustrated to the left.



A fan at a given RPM has a characteristic pressure-volume curve from wide open to blocked tight. Such a fan curve is illustrated to the left.

If the curves are superimposed as illustrated to the right, the intersection is the only point on the system at which the fan can operate. If this balance point does not satisfy the system pressure and volume requirements, the system requirements or fan speed must be adjusted until the required operating characteristics are obtained.



In the selection of a fan to meet calculated or specified pressure-volume conditions, it is important to apply, where possible, an adjustable fan drive with sufficient variation to compensate for variances between actual and calculated operating conditions.

## FAN STARTING REQUIREMENTS

A fan is an energy converter. Electrical energy rotates the fan wheel through a driving motor and increases the static pressure (potential energy) of the air handled by the fan in order to overcome resistance to air flow offered by the duct system. The wheel also increases the velocity pressure (kinetic energy) of the air which is the energy required to maintain the air in motion. The driving motor must be capable of starting the fan from rest and accelerating it to operating speed, with a minimum of disturbance to the electrical system. The information given below is useful in understanding the motor problems that may arise.

**To start and accelerate a fan to operating speed it is necessary to:**

1. **Overcome bearing resistance.** This resistance can vary with the type of bearing used. It is low for anti-friction types and relatively high for sleeve types.
2. **Accelerate the inertia of the fan wheel and shaft.** This inertia is generally designated as the moment of inertia or  $WR^2$ . The motor must provide energy to accelerate it together with the inertia of the drive sheaves or coupling. The moment of inertia for Class III and IV fans will be greater than Class I and II fans, because heavier wheels and shafts are used.
3. **Provide energy to the fan wheel as it begins to deliver air into the duct system.** The horsepower required varies with the cube of the fan speed ratio. It is insignificant at low speeds, but increases rapidly as the fan wheel comes up to operating speed.

At lower static pressures it is possible to select motors that are too small. The fan operating brake horsepower could be significantly less than the  $WR^2$  necessary to accelerate the fan to the point of operation. If the motor was sized to the required operating brake horsepower without consideration for the fan  $WR^2$ , drive loss, and bearing loss, then it is very possible to overheat the motor and overload the electrical system. To assure the proper motor size you should refer to the appropriate Application Data Booklet for this product.

## SELECTION AND APPLICATION

The minimum motor sizes indicated in the fan performance data are based upon the use of standard, open dripproof or enclosed, normal torque motors for across-the-line starting. The use of other motors for reduced voltage starting, high or low starting torques, designed with high inertia capabilities, etc., should be checked to be sure they will start and accelerate the fan without overheating the motor or overloading the electrical circuit. The motors listed in the performance data have been selected based on one start per day and operation in an ambient temperature not exceeding 104°F (40°C). More frequent starting or operation in higher temperatures will probably require a motor larger than the minimum sizes listed.

Motor recommendations for fan sizes 3037 through 3081 are based on the use of four pole, 1800 RPM motors. Under certain operating conditions it may be possible to use motors smaller than those listed in the performance tables. The selection of smaller motors should be reviewed with the motor supplier.

In general, smaller fans do not present a starting problem. Hence, when a fractional horsepower is used, its starting and accelerating characteristics should be carefully checked.

A directly driven fan requires a larger motor to bring it up to its operating speed than a belt driven unit. The required inertia capability of the motor to start a fan and accelerate it, varies as the square of the fan-motor speed ratio. Belt driven arrangements are advantageous for the motor since a relatively low motor inertia capability is required due to the effect of the square of the fan-motor speed ratio. However, a fan directly connected to a motor does not have this speed difference and the mechanical advantage of the drive ratio is nonexistent. The driving motor must, of necessity, be larger than that indicated in the performance tables and should be reviewed with the motor supplier.

Whenever inlet vanes or outlet dampers are used, the starting load and motor heating are reduced, if such devices are kept closed until after the fan has accelerated to operating speed.

### CORRECTION OF FAN PERFORMANCE FOR OTHER THAN STANDARD AIR CONDITIONS

Air volumes to be handled by the fan must be calculated to satisfy the application. A fan operating on a given system at a given speed is a constant volume machine. The density of air entering the fan (affected by temperature and/or altitude) can vary, but the air volume delivered will remain unchanged. The system resistance, the fan pressure capability and brake horsepower will vary directly with the air density.

In general practice, the design system resistance is calculated in the usual manner using standard air density and the fan pressure requirements are determined for "standard" conditions. This is sometimes known as the equivalent pressure (SP<sub>E</sub>). Select the fan from the catalog in the normal manner using the equivalent pressure (SP<sub>E</sub>), noting the fan RPM and BHP. As indicated by fan law #2, the design air volume and selected fan speed will remain unchanged, but the fan pressure and horsepower will vary with the air density. The system resistance will also vary with the air density.

The design of many systems involves the calculation and specification of air quantities by weight as in product drying or combustion. Before a fan can be selected, the air quantity must be converted to an air volume based upon actual air density entering the fan inlet. The system resistance equivalent static pressure (SP<sub>E</sub>) must be determined using the air volume. The fan selection is now made from the catalog using the calculated air volume and the equivalent static pressure (SP<sub>E</sub>). Fan brake horsepower corrections are made for air density variations as indicated under Fan Law #2C.

For ease in calculations the table to follow contains air density ratios for temperatures from -20°F to 800°F (-29°C to 427°C) and barometric pressures from 29.92" to 20.58" Hg (760 mm to 536 mm Hg).

## FAN LAWS

Two basic fan laws relate performance variables for any fan of a given design (such as the 3000 Series). An understanding of these relationships is necessary to select fans when they are handling air or gas which is different than standard or when fan performance adjustments must be made on existing systems.

**Both of these laws apply to a given unchanged duct system.**

### FAN LAW #1

#### SPEED VARIABLE - CONSTANT AIR DENSITY

- A. Volume (CFM)...Varies directly as the ratio of the speeds.

$$CFM_2 = CFM_1 \times \left( \frac{RPM_2}{RPM_1} \right)$$

- B. Pressure (SP or TP)...Varies directly as the square of the speed ratio.

$$Pressure_2 = Pressure_1 \times \left( \frac{RPM_2}{RPM_1} \right)^2$$

- C. Power...Varies directly as the cube of the speed ratio.

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

### FAN LAW #2

#### AIR DENSITY VARIABLE - CONSTANT SPEED

- A. Volume (CFM)...Remains unchanged

- B. Pressure (SP or TP)...Varies directly as the ratio of the air densities.

$$Pressure_2 = Pressure_1 \times \left( \frac{Air\ Density_2}{Air\ Density_1} \right)$$

- C. Power...Varies directly as the ratio of the air densities.

$$BHP_2 = BHP_1 \times \left( \frac{Air\ Density_2}{Air\ Density_1} \right)$$

# 3000 SERIES

## SELECTION AND APPLICATION

### SAMPLE SELECTION

A size 3037 DWDI fan must deliver 38,475 CFM (18.16 m<sup>3</sup>/sec) at 6.00 inches wg (1490 Pa) static pressure. The fan must perform at an altitude of 7000 feet (2134 m) with air entering the fan inlet at 150°F (66°C).

1. Obtain the density factor from the table below. For 150°F (66°C) at an altitude of 7000 feet (2134 m), the factor is 1.49 → 1.50.
2. Convert the static pressure for new conditions:  
6 x 1.5 = 9.00" equivalent static pressure (SP<sub>E</sub>)
3. Use the specified air volume and equivalent static pressure (SP<sub>E</sub>) to obtain the fan speed and brake horsepower requirements from the fan table.  
From the performance table on page 43, a size 3037 DWDI fan delivering 38,475 CFM (18.16 m<sup>3</sup>/sec) at a static pressure of 9.00" (2235 Pa) must operate at 1329 RPM and requires 70 BHP.

4. The RPM is correct as selected from the performance table (when elevated temperatures are involved, check the maximum allowable RPM, at the top of the capacity table), the brake horsepower requirements must be converted to reflect the change in power required because of the change in air density.

Divide the tabular horsepower from step 3 by the conversion factor from step 1:

$$\text{BHP} = 70 \div 1.5 = 46.7$$

5. Check specifications to determine if the fan will be expected to operate at lower temperatures (such as at start-up of a system). If it is, check the horsepower required at this lower temperature.

Assume the system will start with the fan handling air at 70°F (21°C).

- a. Conversion ratio for 7000 feet (2134 m) altitude and 70°F (21°C) temperature = 1.30.
- b. Convert the brake horsepower:  
70 ÷ 1.3 = 53.8
- c. Select a motor based on a maximum horsepower requirement of 53.8 BHP → 60 HP.

### AIR DENSITY RATIOS AT VARIOUS ALTITUDES AND AIR TEMPERATURES

Air Gas Temp °F	Altitude In Ft. Above Sea Level With Corresponding Barometric Pressure in Inches Hg.											Air Gas Temp °F	Altitude In Ft. Above Sea Level With Corresponding Barometric Pressure in Inches Hg.										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000		0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
29.92	28.86	27.82	26.81	25.84	24.89	23.98	23.09	22.22	21.38	20.58		29.92	28.86	27.82	26.81	25.84	24.89	23.98	23.09	22.22	21.38	20.58	
-20	0.83	0.86	0.89	0.93	0.96	1.00	1.04	1.08	1.12	1.16	1.21	350	1.53	1.59	1.65	1.71	1.77	1.84	1.91	1.98	2.06	2.14	2.22
0	0.87	0.91	0.94	0.97	1.01	1.04	1.08	1.13	1.17	1.22	1.26	400	1.62	1.68	1.75	1.81	1.88	1.95	2.03	2.10	2.18	2.27	2.36
50	0.96	1.00	1.04	1.07	1.11	1.16	1.20	1.25	1.30	1.35	1.40	450	1.72	1.78	1.85	1.92	1.99	2.07	2.15	2.23	2.31	2.40	2.49
70	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45	500	1.81	1.88	1.95	2.02	2.10	2.18	2.26	2.35	2.44	2.54	2.63
100	1.06	1.10	1.14	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54	550	1.91	1.98	2.05	2.13	2.20	2.29	2.38	2.47	2.56	2.67	2.77
150	1.15	1.19	1.24	1.30	1.33	1.38	1.44	1.49	1.55	1.61	1.67	600	2.00	2.08	2.15	2.23	2.32	2.40	2.50	2.59	2.69	2.84	2.91
200	1.25	1.29	1.34	1.39	1.44	1.50	1.56	1.61	1.68	1.75	1.81	650	2.10	2.17	2.25	2.34	2.43	2.52	2.62	2.72	2.83	2.93	3.05
250	1.34	1.39	1.44	1.50	1.55	1.61	1.67	1.74	1.80	1.88	1.95	700	2.19	2.27	2.35	2.44	2.53	2.63	2.73	2.83	2.94	3.07	3.18
300	1.44	1.49	1.54	1.60	1.66	1.72	1.79	1.86	1.93	2.01	2.08	800	2.38	2.46	2.55	2.65	2.75	2.86	2.97	3.08	3.20	3.32	3.45
Air Gas Temp °C	Altitude in Meters Above Sea Level With Corresponding Barometric Pressure in Millimeters Hg.											Air Gas Temp °C	Altitude in Meters Above Sea Level With Corresponding Barometric Pressure in Millimeters Hg.										
	0	250	500	750	1000	1250	1500	1750	2000	2500	3000		0	250	500	750	1000	1250	1500	1750	2000	2500	3000
760	738	717	697	677	657	639	620	603	589	569	536	760	738	717	697	677	657	639	620	603	589	536	
0	0.93	0.95	0.98	1.01	1.04	1.08	1.10	1.14	1.16	1.23	1.32	250	1.79	1.82	1.89	1.92	2.00	2.04	2.13	2.17	2.22	2.38	2.50
21	1.00	1.03	1.05	1.09	1.12	1.15	1.19	1.22	1.27	1.33	1.41	275	1.85	1.92	1.96	2.04	2.08	2.13	2.22	2.27	2.33	2.50	2.63
50	1.10	1.12	1.16	1.19	1.23	1.27	1.30	1.33	1.39	1.47	1.56	300	1.96	2.00	2.04	2.13	2.17	2.22	2.33	2.38	2.44	2.63	2.78
75	1.18	1.22	1.25	1.28	1.33	1.37	1.41	1.45	1.49	1.59	1.67	325	2.04	2.08	2.13	2.22	2.27	2.33	2.44	2.50	2.56	2.70	2.86
100	1.27	1.30	1.33	1.39	1.43	1.47	1.52	1.54	1.59	1.69	1.79	350	2.13	2.17	2.22	2.33	2.38	2.44	2.50	2.56	2.63	2.86	3.03
125	1.35	1.39	1.43	1.47	1.52	1.56	1.61	1.67	1.69	1.82	1.92	375	2.17	2.27	2.33	2.38	2.44	2.56	2.63	2.70	2.78	2.94	3.13
150	1.43	1.47	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.92	2.04	400	2.27	2.33	2.44	2.50	2.56	2.63	2.70	2.78	2.86	3.03	3.23
175	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.85	1.92	2.04	2.17	425	2.38	2.44	2.50	2.56	2.63	2.70	2.86	2.94	3.03	3.13	3.33
200	1.61	1.64	1.69	1.75	1.79	1.85	1.92	1.96	2.04	2.13	2.27	450	2.44	2.50	2.63	2.70	2.78	2.86	2.94	3.03	3.13	3.23	3.45
225	1.69	1.72	1.79	1.85	1.89	1.96	2.00	2.08	2.13	2.27	2.38	475	2.56	2.63	2.70	2.78	2.86	2.94	3.03	3.13	3.23	3.45	3.57

### TEMPERATURE/RPM CORRECTIONS

Maximum allowable class speeds shown above each fan performance table refer to fans of standard construction operating at 70°F (21°C). Since the strength of steel decreases appreciably with temperature rise, maximum allowable speeds must be corrected accordingly.

Reduce maximum allowable fan speed by applying RPM correction factors from the following table.

TEMPERATURE/RPM CORRECTION FACTORS				
TEMP	-20°F - 150°F (-29°C - 66°C)	151°F - 300°F (66°C - 149°C)	301°F - 600°F (149°C - 316°C)	601°F - 800°F (316°C - 427°C)
FACTOR	1.0	0.957	0.880	0.790

# SILENTVANE™

## SIZE 3012 SINGLE WIDTH SINGLE INLET

## MAXIMUM CLASS OPERATING RPM FAN TEMPERATURE

Wheel Diameter	12.25 inches	311 mm
Wheel Circumference	3.21 feet	.9784 m
Inlet Diameter/Area	13.5 inches dia./ .99 sq. ft.	343 mm/.0920 m <sup>2</sup>
Outlet Size/Area	12.79 x 9.60 inches I.D./ .85 sq. ft.	325 x 244 mm/.0790 m <sup>2</sup>
Tip Speed	3.21 x RPM ft./minute	.9779 x RPM m/minute
Maximum BHP	.066 x (RPM ÷ 1000) <sup>3</sup> BHP	.0492 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3012	-20° to 150°F -29° to 66°C
CLASS I	3467
CLASS II	4523
CLASS III	—
CLASS IV	—

VOL CFM	OV FPM	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
688	800	926	0.06	1007	0.07	1079	0.09	1152	0.11	1220	0.13	1285	0.15	1350	0.17	1411	0.19	1469	0.21	1524	0.23	1577	0.25	1628	0.27	1677	0.29	1724	0.31	1769	0.33	1812	0.35
774	900	1006	0.07	1076	0.09	1146	0.11	1210	0.13	1276	0.15	1337	0.17	1395	0.19	1451	0.21	1507	0.23	1561	0.25	1612	0.27	1661	0.29	1708	0.31	1753	0.33	1796	0.35	1838	0.37
860	1000	1088	0.09	1150	0.11	1215	0.13	1277	0.15	1335	0.17	1394	0.19	1451	0.21	1507	0.23	1561	0.25	1612	0.27	1661	0.29	1708	0.31	1753	0.33	1796	0.35	1838	0.37	1879	0.39
946	1100	1171	0.11	1230	0.13	1285	0.15	1346	0.17	1402	0.19	1455	0.22	1507	0.24	1557	0.26	1605	0.28	1651	0.30	1696	0.32	1740	0.34	1782	0.36	1823	0.38	1863	0.40	1902	0.42
1032	1200	1256	0.13	1312	0.15	1364	0.17	1416	0.20	1470	0.22	1522	0.25	1572	0.27	1620	0.29	1667	0.31	1713	0.33	1758	0.35	1802	0.37	1845	0.39	1887	0.41	1928	0.43	1968	0.45
1118	1300	1342	0.15	1395	0.18	1444	0.20	1491	0.23	1540	0.26	1591	0.28	1639	0.31	1686	0.33	1731	0.35	1775	0.37	1818	0.39	1860	0.41	1901	0.43	1941	0.45	1980	0.47	2018	0.49
1204	1400	1428	0.18	1479	0.21	1526	0.24	1571	0.26	1614	0.29	1661	0.32	1708	0.35	1753	0.37	1796	0.41	1838	0.43	1879	0.45	1919	0.47	1958	0.49	1996	0.51	2033	0.53	2069	0.55
1290	1500	1515	0.22	1564	0.25	1609	0.28	1653	0.30	1694	0.33	1734	0.36	1778	0.39	1816	0.42	1853	0.45	1889	0.47	1924	0.50	1958	0.52	1991	0.54	2023	0.56	2054	0.58	2084	0.60
1376	1600	1602	0.26	1650	0.29	1693	0.32	1735	0.35	1775	0.38	1813	0.41	1851	0.44	1887	0.47	1922	0.50	1956	0.52	1989	0.54	2021	0.56	2052	0.58	2082	0.60	2111	0.62	2140	0.64
1462	1700	1691	0.30	1736	0.33	1778	0.36	1818	0.40	1857	0.43	1894	0.46	1930	0.49	1965	0.52	2000	0.55	2033	0.57	2065	0.59	2096	0.61	2126	0.63	2155	0.65	2183	0.67	2210	0.69
1548	1800	1779	0.35	1823	0.38	1864	0.42	1903	0.45	1940	0.48	1976	0.52	2011	0.55	2045	0.58	2078	0.61	2110	0.63	2141	0.65	2171	0.67	2200	0.69	2228	0.71	2255	0.73	2281	0.75
1634	1900	1869	0.40	1910	0.43	1950	0.47	1987	0.51	2023	0.54	2058	0.58	2092	0.62	2125	0.65	2157	0.68	2188	0.70	2218	0.72	2247	0.74	2275	0.76	2302	0.78	2328	0.80	2353	0.82
1720	2000	1958	0.46	1998	0.49	2036	0.53	2073	0.57	2108	0.61	2142	0.65	2174	0.69	2205	0.72	2235	0.75	2264	0.77	2292	0.79	2319	0.81	2345	0.83	2370	0.85	2394	0.87	2417	0.89
1892	2200	2138	0.59	2175	0.63	2211	0.67	2245	0.72	2279	0.76	2310	0.80	2341	0.84	2370	0.87	2398	0.90	2425	0.92	2451	0.94	2476	0.96	2500	0.98	2523	1.00	2545	1.02	2566	1.04
2064	2400	2320	0.75	2354	0.79	2387	0.84	2419	0.89	2451	0.93	2481	0.98	2511	1.03	2539	1.06	2566	1.09	2592	1.12	2617	1.15	2641	1.17	2664	1.19	2686	1.21	2707	1.23	2727	1.25
2236	2600	2502	0.93	2534	0.98	2565	1.03	2595	1.08	2625	1.13	2654	1.19	2682	1.24	2709	1.28	2735	1.31	2760	1.34	2784	1.37	2807	1.39	2829	1.41	2850	1.43	2870	1.45	2889	1.47
2408	2800	2685	1.15	2714	1.20	2744	1.25	2772	1.31	2800	1.36	2828	1.42	2855	1.47	2881	1.50	2906	1.53	2930	1.56	2953	1.58	2975	1.60	2996	1.62	3016	1.64	3035	1.66	3053	1.68
2580	3000	2868	1.39	2896	1.45	2924	1.51	2950	1.57	2977	1.62	3003	1.68	3029	1.74	3054	1.77	3078	1.80	3101	1.82	3123	1.84	3144	1.86	3164	1.88	3183	1.90	3201	1.92	3218	1.94
2752	3200	3052	1.67	3078	1.74	3104	1.80	3130	1.86	3155	1.92	3180	1.98	3204	2.04	3227	2.07	3249	2.10	3270	2.12	3290	2.14	3309	2.16	3327	2.18	3344	2.20	3360	2.22	3375	2.24
2924	3400	3236	1.99	3261	2.06	3286	2.12	3310	2.19	3334	2.25	3357	2.32	3380	2.38	3402	2.43	3423	2.47	3443	2.50	3462	2.53	3480	2.55	3497	2.57	3513	2.59	3528	2.61	3542	2.63
3096	3600	3421	2.35	3445	2.42	3468	2.48	3491	2.55	3514	2.62	3536	2.69	3558	2.76	3579	2.81	3600	2.84	3619	2.87	3637	2.89	3654	2.91	3670	2.93	3685	2.95	3699	2.97	3712	2.99

VOL CFM	OV FPM	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
946	1100	1894	0.46																		
1032	1200	1938	0.50																		
1118	1300	1987	0.54	2148	0.67																
1204	1400	2042	0.60	2192	0.73	2342	0.87														
1290	1500	2099	0.65	2247	0.79	2386	0.94	2524	1.09												
1376	1600	2157	0.71	2302	0.86	2437	1.01	2567	1.16	2696	1.33										
1462	1700	2223	0.78	2359	0.93	2492	1.08	2616	1.24	2739	1.41	2860	1.58								
1548	1800	2290	0.85	2418	1.00	2548	1.17	2671	1.33	2786	1.50	2903	1.68	3017	1.86	3126	2.05				
1634	1900	2359	0.92	2484	1.09	2605	1.25	2727	1.42	2841	1.60	2949	1.78	3061	1.97	3169	2.16	3273	2.36		
1720	2000	2428	1.01	2552	1.17	2667	1.35	2783	1.52	2897	1.71	3004	1.89	3107	2.08	3213	2.28	3316	2.48	3415	2.69
1892	2200	2568	1.19	2688	1.37	2800	1.55	2906	1.74	3010	1.93	3116	2.13	3217	2.33	3314	2.54	3406	2.75	3502	2.96
2064	2400	2725	1.39	2828	1.59	2937	1.78	3040	1.98	3138	2.19	3231	2.40	3329	2.61	3425	2.83	3517	3.05	3605	3.27
2236	2600	2886	1.63	2979	1.83	3077	2.04	3177	2.26	3272	2.47	3363	2.69	3451	2.92	3538	3.15	3629	3.38	3716	3.62
2408	2800	3050	1.90	3139	2.11	3224	2.33	3316	2.56	3409	2.79	3499	3.02	3584	3.26	3667	3.50	3747	3.74	3829	3.99
2580	3000	3216	2.20	3302	2.43	3384	2.66	3462	2.90	3549	3.14	3636	3.38	3720	3.63	3801	3.88	3879	4.14	3955	4.40
2752	3200	3384	2.53	3466	2.78	3545	3.02	3621	3.27	3695	3.52	3776	3.78	3858	4.04	3937	4.31	4014	4.57	4088	4.84
2924	3400	3554	2.91	3633	3.16	3709	3.42	3783	3.68	3853	3.95	3922	4.21	3998	4.49	4076	4.76	4151	5.04	4224	5.33
3096	3600	3725	3.32	3801	3.59	3875	3.86	3946	4.13	4014	4.41	4081	4.69	4146	4.97	4216	5.26	4290	5.55	4361	5.85

VOL CFM	OV FPM	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2064	2400	3690	3.50	3865	3.97	4034	4.46														
2236	2600	3801	3.85	3962	4.34	4121	4.84	4281	5.36	4433	5.89										
2408	2800	3913	4.24	4072	4.75	4223	5.27	4368	5.80	4519	6.35										
2580	3000	4029	4.65	4185	5.19	4334	5.73	4476	6.29												
2752	3200	4161	5.11	4300	5.66	4446	6.23														
2924	3400	4295	5.61	4431	6.18																
3096	3600	4431	6.15																		

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3013	-20° to 150°F -29° to 66°C
CLASS I	3158
CLASS II	4120
CLASS III	—
CLASS IV	—

SINGLE WIDTH  
SINGLE INLET

## SIZE 3013

Wheel Diameter	13.50 inches	343 mm
Wheel Circumference	3.53 feet	1.076 m
Inlet Diameter/Area	14.75 inches dia./1.19 sq. ft.	375 mm/.1106 m <sup>2</sup>
Outlet Size/Area	14.10 x 10.73 inches I.D./1.05 sq. ft.	358 x 273 mm/.0975 m <sup>2</sup>
Tip Speed	3.53 x RPM ft./minute	1.075 x RPM m/minute
Maximum BHP	.108 x (RPM ÷ 1000) <sup>3</sup> BHP	.0329 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OV FPM	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
840	800	843	0.07	916	0.09	982	0.11	1048	0.13	1109	0.15	1168	0.18	1226	0.20	1276	0.21	1324	0.22	1371	0.23	1415	0.24	1465	0.26	1517	0.28	1573	0.30	1634	0.32	1696	0.34
945	900	916	0.08	979	0.11	1043	0.13	1101	0.15	1160	0.18	1216	0.20	1268	0.23	1319	0.26	1373	0.28	1424	0.30	1475	0.32	1527	0.34	1581	0.36	1636	0.38	1692	0.40	1749	0.42
1050	1000	991	0.11	1047	0.13	1106	0.15	1162	0.18	1215	0.21	1267	0.23	1319	0.26	1371	0.28	1424	0.30	1475	0.32	1527	0.34	1581	0.36	1636	0.38	1692	0.40	1749	0.42	1807	0.44
1155	1100	1067	0.13	1120	0.16	1170	0.18	1225	0.21	1276	0.24	1324	0.27	1371	0.30	1415	0.32	1465	0.36	1517	0.38	1573	0.40	1634	0.42	1696	0.44	1759	0.46	1823	0.48	1888	0.50
1260	1200	1144	0.16	1195	0.19	1242	0.21	1289	0.24	1338	0.27	1385	0.30	1430	0.34	1475	0.38	1527	0.40	1581	0.42	1636	0.44	1692	0.46	1749	0.48	1807	0.50	1866	0.52	1926	0.54
1365	1300	1223	0.19	1271	0.22	1316	0.25	1358	0.28	1402	0.31	1448	0.35	1491	0.38	1539	0.42	1587	0.46	1636	0.50	1686	0.54	1736	0.58	1787	0.62	1839	0.66	1892	0.70	1946	0.74
1470	1400	1301	0.23	1348	0.26	1391	0.29	1431	0.32	1470	0.36	1512	0.39	1554	0.43	1597	0.47	1641	0.51	1686	0.55	1731	0.59	1777	0.63	1823	0.67	1870	0.71	1918	0.75	1966	0.79
1575	1500	1381	0.27	1425	0.30	1466	0.34	1506	0.37	1543	0.41	1579	0.45	1618	0.48	1656	0.52	1696	0.56	1736	0.60	1777	0.64	1818	0.68	1860	0.72	1903	0.76	1946	0.80	1989	0.84
1680	1600	1461	0.31	1504	0.35	1543	0.39	1581	0.43	1617	0.46	1652	0.50	1685	0.54	1718	0.58	1753	0.62	1789	0.66	1824	0.70	1860	0.74	1897	0.78	1934	0.82	1971	0.86	2008	0.90
1785	1700	1541	0.37	1582	0.41	1621	0.45	1657	0.49	1692	0.53	1725	0.57	1758	0.61	1791	0.65	1824	0.69	1857	0.73	1891	0.77	1926	0.81	1961	0.85	1996	0.89	2031	0.93	2066	0.97
1890	1800	1622	0.43	1661	0.47	1699	0.51	1734	0.55	1767	0.59	1800	0.64	1832	0.68	1865	0.72	1897	0.76	1930	0.80	1963	0.84	1996	0.88	2029	0.92	2062	0.96	2095	1.00	2128	1.04
1995	1900	1704	0.49	1741	0.54	1777	0.58	1811	0.62	1844	0.67	1875	0.71	1906	0.76	1936	0.80	1966	0.84	1996	0.88	2026	0.92	2056	0.96	2086	1.00	2116	1.04	2146	1.08	2176	1.12
2100	2000	1785	0.56	1821	0.61	1856	0.66	1889	0.70	1921	0.75	1951	0.80	1981	0.84	2010	0.88	2039	0.92	2068	0.96	2097	1.00	2126	1.04	2155	1.08	2184	1.12	2213	1.16	2242	1.20
2310	2200	1950	0.72	1983	0.78	2015	0.83	2047	0.88	2077	0.93	2105	0.98	2133	1.04	2161	1.09	2189	1.14	2217	1.19	2245	1.24	2273	1.29	2301	1.34	2329	1.39	2357	1.44	2385	1.49
2520	2400	2115	0.92	2146	0.98	2176	1.03	2205	1.09	2234	1.15	2262	1.21	2288	1.26	2315	1.31	2342	1.36	2369	1.41	2396	1.46	2423	1.51	2450	1.56	2477	1.61	2504	1.66	2531	1.71
2730	2600	2281	1.15	2310	1.21	2338	1.27	2366	1.33	2393	1.39	2419	1.46	2445	1.52	2471	1.58	2497	1.64	2523	1.70	2549	1.76	2575	1.82	2601	1.88	2627	1.94	2653	1.99	2679	2.05
2940	2800	2448	1.41	2475	1.48	2502	1.54	2527	1.61	2553	1.68	2578	1.74	2602	1.81	2626	1.87	2650	1.93	2674	1.99	2698	2.05	2722	2.11	2746	2.17	2770	2.23	2794	2.29	2818	2.35
3150	3000	2616	1.72	2641	1.79	2666	1.86	2690	1.93	2714	2.00	2738	2.07	2761	2.14	2784	2.21	2807	2.28	2830	2.35	2853	2.42	2876	2.49	2899	2.56	2922	2.63	2945	2.70	2968	2.77
3360	3200	2784	2.06	2807	2.14	2831	2.21	2854	2.29	2877	2.36	2899	2.44	2921	2.52	2944	2.59	2966	2.67	2988	2.75	3010	2.83	3032	2.91	3054	2.99	3076	3.07	3098	3.15	3120	3.23
3570	3400	2952	2.46	2974	2.53	2996	2.61	3018	2.69	3040	2.77	3061	2.85	3082	2.93	3103	3.01	3124	3.09	3145	3.17	3166	3.25	3187	3.33	3208	3.41	3229	3.49	3250	3.57	3271	3.65
3780	3600	3120	2.90	3142	2.98	3163	3.06	3183	3.15	3204	3.23	3224	3.32	3244	3.40	3264	3.48	3284	3.57	3304	3.65	3324	3.73	3344	3.81	3364	3.89	3384	3.97	3404	4.05	3424	4.13

VOL CFM	OV FPM	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1155	1100	1721	0.56	1912	0.76	2128	1.06	2293	1.33	2449	1.62	2599	1.93	2702	2.15	2840	2.50	2974	2.88	3103	3.28
1260	1200	1761	0.61	1952	0.82	2168	1.14	2333	1.42	2489	1.72	2638	2.05	2742	2.27	2880	2.64	2996	3.03	3116	3.42
1365	1300	1806	0.67	1992	0.89	2215	1.23	2378	1.52	2533	1.83	2681	2.18	2784	2.40	2920	2.78	3037	3.17	3157	3.56
1470	1400	1857	0.73	2043	0.97	2266	1.32	2428	1.63	2583	1.96	2731	2.31	2834	2.54	2970	2.92	3087	3.31	3207	3.70
1575	1500	1909	0.80	2094	1.05	2317	1.42	2479	1.74	2634	2.09	2781	2.44	2884	2.67	2999	3.06	3119	3.45	3239	3.84
1680	1600	1962	0.87	2145	1.13	2369	1.53	2531	1.86	2686	2.21	2833	2.56	2936	2.79	3051	3.18	3171	3.57	3291	3.96
1785	1700	2023	0.95	2200	1.23	2417	1.42	2578	1.74	2733	2.09	2880	2.44	2983	2.67	3100	3.06	3220	3.45	3340	3.84
1890	1800	2084	1.04	2261	1.33	2479	1.53	2644	1.86	2799	2.21	2946	2.56	3049	2.79	3166	3.18	3286	3.57	3406	3.96
1995	1900	2146	1.13	2322	1.44	2502	1.65	2666	1.96	2821	2.31	2968	2.66	3071	2.89	3188	3.28	3308	3.67	3428	4.06
2100	2000	2209	1.23	2387	1.54	2570	1.75	2734	2.06	2889	2.41	3036	2.76	3139	2.99	3256	3.38	3376	3.77	3496	4.16
2310	2200	2338	1.45	2447	1.67	2548	1.90	2644	2.13	2737	2.36	2833	2.61	2925	2.85	3017	3.10	3119	3.50	3229	3.89
2520	2400	2482	1.71	2574	1.94	2673	2.18	2766	2.43	2855	2.68	2939	2.93	3028	3.19	3114	3.46	3207	3.85	3307	4.24
2730	2600	2629	2.00	2713	2.25	2801	2.50	2891	2.77	2978	3.03	3060	3.30	3140	3.57	3218	3.85	3300	4.24	3399	4.63
2940	2800	2779	2.33	2859	2.59	2936	2.86	3019	3.14	3103	3.42	3184	3.70	3261	3.99	3336	4.28	3416	4.67	3504	5.06
3150	3000	2930	2.70	3008	2.98	3082	3.26	3153	3.55	3231	3.85	3309	4.15	3385	4.45	3459	4.76	3530	5.07	3609	5.46
3360	3200	3084	3.11	3158	3.41	3230	3.71	3298	4.01	3365	4.32	3437	4.63	3511	4.95	3583	5.27	3653	5.60	3720	5.93
3570	3400	3239	3.58	3310	3.89	3379	4.20	3446	4.52	3510	4.84	3572	5.17	3639	5.50	3710	5.84	3778	6.18	3844	6.52
3780	3600	3395	4.09	3464	4.41	3530	4.74	3595	5.08	3657	5.41	3717	5.76	3776	6.10	3838	6.45	3905	6.81	3969	7.17

VOL CFM	OV FPM	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
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# SILENTVANE™

## SIZE 3015

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	15.00 inches	381 mm
Wheel Circumference	3.93 feet	1.198 m
Inlet Diameter/Area	16.25 inches dia./1.44 sq. ft.	413 mm/1338 m <sup>2</sup>
Outlet Size/Area	15.73 x 11.60 inches I.D./1.27 sq. ft.	400 x 295 mm/1180 m <sup>2</sup>
Tip Speed	3.93 x RPM ft./minute	1.197 x RPM m/minute
Maximum BHP	.183 x (RPM ÷ 1000) <sup>3</sup> BHP	.1365 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3015	-20° to 150°F -29° to 66°C
CLASS I	2782
CLASS II	3629
CLASS III	—
CLASS IV	—

VOL CFM	OV FPM	1" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1008	800	745	0.08	812	0.10	873	0.13	933	0.16	988	0.18	1043	0.21	1096	0.24						
1134	900	808	0.10	867	0.13	925	0.15	978	0.18	1032	0.21	1083	0.24	1131	0.27	1227	0.34				
1260	1000	873	0.12	924	0.15	979	0.18	1030	0.21	1078	0.24	1127	0.28	1174	0.31	1262	0.38	1349	0.46		
1386	1100	939	0.15	988	0.18	1035	0.21	1085	0.25	1131	0.28	1175	0.32	1219	0.35	1305	0.43	1384	0.50	1464	0.59
1512	1200	1007	0.18	1053	0.22	1096	0.25	1140	0.29	1185	0.32	1228	0.36	1269	0.40	1349	0.48	1427	0.56	1499	0.64
1638	1300	1075	0.22	1119	0.26	1160	0.29	1199	0.33	1241	0.37	1282	0.41	1322	0.45	1396	0.53	1472	0.62	1543	0.71
1764	1400	1143	0.26	1186	0.30	1225	0.34	1262	0.38	1298	0.42	1338	0.46	1377	0.50	1449	0.59	1517	0.68	1587	0.77
1890	1500	1213	0.31	1253	0.35	1291	0.39	1327	0.43	1361	0.48	1394	0.52	1432	0.57	1503	0.66	1569	0.75	1633	0.85
2016	1600	1282	0.36	1322	0.41	1358	0.45	1392	0.50	1425	0.54	1457	0.59	1488	0.63	1558	0.73	1623	0.83	1684	0.93
2142	1700	1353	0.42	1390	0.47	1425	0.52	1458	0.56	1490	0.61	1521	0.66	1551	0.71	1614	0.81	1677	0.91	1737	1.02
2268	1800	1423	0.49	1459	0.54	1493	0.59	1525	0.64	1556	0.69	1586	0.74	1615	0.79	1670	0.90	1733	1.01	1792	1.12
2394	1900	1494	0.56	1529	0.62	1562	0.67	1593	0.72	1623	0.78	1652	0.83	1680	0.88	1733	0.99	1789	1.10	1847	1.22
2520	2000	1566	0.64	1599	0.70	1631	0.76	1661	0.81	1690	0.87	1718	0.92	1745	0.98	1797	1.09	1847	1.21	1902	1.33
2772	2200	1709	0.83	1740	0.89	1770	0.95	1798	1.02	1826	1.08	1852	1.14	1878	1.20	1927	1.32	1974	1.45	2020	1.58
3024	2400	1854	1.05	1882	1.12	1910	1.19	1937	1.26	1963	1.33	1988	1.39	2012	1.46	2059	1.59	2104	1.73	2148	1.86
3276	2600	1999	1.31	2025	1.38	2051	1.46	2077	1.53	2101	1.61	2125	1.68	2149	1.75	2193	1.90	2236	2.04	2277	2.19
3528	2800	2145	1.61	2169	1.69	2194	1.77	2218	1.85	2241	1.93	2264	2.01	2286	2.09	2329	2.25	2370	2.40	2409	2.55
3780	3000	2291	1.96	2314	2.04	2337	2.13	2360	2.21	2382	2.30	2403	2.38	2425	2.47	2466	2.64	2505	2.80	2543	2.97
4032	3200	2438	2.35	2460	2.44	2481	2.53	2502	2.62	2523	2.71	2544	2.80	2564	2.89	2604	3.08	2642	3.26	2678	3.43
4284	3400	2585	2.79	2605	2.89	2626	2.98	2646	3.08	2666	3.18	2685	3.27	2705	3.37	2742	3.56	2779	3.76	2814	3.95
4536	3600	2732	3.29	2752	3.39	2771	3.49	2790	3.60	2809	3.70	2828	3.80	2846	3.90	2882	4.11	2917	4.31	2952	4.52

VOL CFM	OV FPM	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1512	1200	1573	0.73																		
1638	1300	1609	0.80	1744	0.99																
1764	1400	1653	0.87	1779	1.07	1901	1.27														
1890	1500	1698	0.95	1819	1.15	1936	1.37	2049	1.59												
2016	1600	1744	1.03	1864	1.25	1974	1.47	2084	1.70	2188	1.94										
2142	1700	1795	1.13	1909	1.35	2018	1.58	2119	1.81	2223	2.06	2322	2.32								
2268	1800	1848	1.23	1954	1.46	2062	1.70	2163	1.94	2258	2.19	2356	2.46	2450	2.73						
2394	1900	1902	1.33	2005	1.57	2107	1.82	2207	2.07	2301	2.33	2392	2.60	2484	2.88	2573	3.17				
2520	2000	1957	1.45	2059	1.70	2153	1.95	2252	2.22	2345	2.48	2433	2.76	2519	3.04	2607	3.34	2692	3.63	2773	3.94
2772	2200	2068	1.71	2167	1.97	2259	2.24	2346	2.52	2435	2.81	2522	3.10	2604	3.40	2683	3.70	2762	4.01	2842	4.34
3024	2400	2189	2.00	2278	2.28	2368	2.57	2452	2.87	2533	3.17	2612	3.48	2694	3.80	2772	4.12	2847	4.44	2919	4.77
3276	2600	2318	2.33	2394	2.63	2479	2.94	2561	3.26	2640	3.58	2714	3.90	2786	4.23	2862	4.57	2936	4.92	3008	5.26
3528	2800	2448	2.71	2522	3.03	2592	3.35	2672	3.69	2748	4.03	2822	4.37	2892	4.72	2960	5.07	3027	5.43	3098	5.79
3780	3000	2580	3.14	2651	3.47	2718	3.81	2784	4.16	2859	4.52	2931	4.88	3000	5.25	3066	5.62	3131	5.99	3193	6.37
4032	3200	2713	3.61	2782	3.96	2847	4.33	2910	4.69	2972	5.06	3042	5.44	3109	5.83	3174	6.22	3238	6.61	3299	7.01
4284	3400	2848	4.14	2914	4.51	2977	4.89	3038	5.27	3096	5.66	3154	6.06	3220	6.46	3284	6.87	3346	7.28	3406	7.70
4536	3600	2984	4.72	3048	5.11	3109	5.51	3167	5.91	3224	6.32	3279	6.73	3333	7.15	3396	7.57	3456	8.01	3515	8.44

VOL CFM	OV FPM	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3024	2400	2990	5.11	3137	5.81	3275	6.53														
3276	2600	3077	5.62	3209	6.33	3344	7.08	3475	7.85	3599	8.64										
3528	2800	3166	6.17	3297	6.92	3420	7.68	3544	8.48												
3780	3000	3257	6.76	3386	7.55	3508	8.35	3625	9.17												
4032	3200	3358	7.41	3476	8.23	3597	9.07														
4284	3400	3465	8.11	3577	8.96																
4536	3600	3573	8.88																		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■

Refer to factors on page 54 to convert numbers above to the desired metric units.

The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.

For minimum motor size required see "Fan Starting Requirements," page 9.

If the Maximum Safe Operating RPM is not shown, consult the factory.

Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.

Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

## SIZE 3016

SIZE 3016	-20° to 150°F -29° to 66°C
CLASS I	2573
CLASS II	3357
CLASS III	—
CLASS IV	—

Wheel Diameter	16.50 inches	419 mm
Wheel Circumference	4.32 feet	1.317 m
Inlet Diameter/Area	18.25 inches dia./1.82 sq. ft.	463 mm/1.691 m <sup>2</sup>
Outlet Size/Area	17.23 x 12.98 inches I.D./1.55 sq. ft.	438 x 330 mm/1.440 m <sup>2</sup>
Tip Speed	4.32 x RPM ft./minute	1.316 x RPM m/minute
Maximum BHP	.296 x (RPM ÷ 1000) <sup>3</sup> BHP	.2207 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OV FPM	1 1/4" SP		3/8" SP		1 1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1248	800	687	0.10	747	0.13	801	0.16	855	0.19	905	0.23	954	0.26	1002	0.30						
1404	900	747	0.13	799	0.16	851	0.19	899	0.23	947	0.26	993	0.30	1036	0.34	1122	0.42				
1560	1000	807	0.16	853	0.19	902	0.23	948	0.27	991	0.31	1035	0.35	1077	0.39	1155	0.47	1233	0.56		
1716	1100	869	0.19	913	0.23	954	0.27	999	0.31	1041	0.35	1080	0.40	1119	0.44	1196	0.53	1267	0.62	1339	0.72
1872	1200	932	0.23	974	0.27	1012	0.32	1051	0.36	1092	0.41	1130	0.45	1167	0.50	1238	0.59	1308	0.69	1373	0.80
2028	1300	996	0.28	1035	0.32	1072	0.37	1107	0.42	1143	0.46	1181	0.51	1217	0.56	1284	0.66	1350	0.77	1415	0.88
2184	1400	1060	0.33	1098	0.38	1133	0.43	1166	0.48	1198	0.53	1233	0.58	1268	0.63	1333	0.74	1394	0.85	1456	0.97
2340	1500	1124	0.40	1161	0.45	1195	0.50	1227	0.55	1258	0.60	1287	0.66	1320	0.71	1384	0.83	1443	0.94	1500	1.06
2496	1600	1189	0.46	1225	0.52	1257	0.58	1288	0.63	1318	0.69	1346	0.74	1374	0.80	1435	0.92	1494	1.04	1549	1.16
2652	1700	1255	0.54	1289	0.60	1320	0.66	1350	0.72	1378	0.78	1406	0.84	1433	0.90	1487	1.02	1545	1.15	1599	1.28
2808	1800	1321	0.63	1353	0.69	1384	0.75	1412	0.82	1440	0.88	1467	0.94	1493	1.00	1542	1.13	1596	1.26	1650	1.40
2964	1900	1387	0.72	1418	0.79	1448	0.86	1475	0.92	1502	0.99	1528	1.05	1553	1.12	1601	1.25	1649	1.39	1701	1.53
3120	2000	1454	0.83	1483	0.90	1512	0.97	1539	1.04	1565	1.11	1590	1.17	1614	1.24	1661	1.38	1706	1.53	1753	1.67
3432	2200	1587	1.07	1615	1.14	1641	1.22	1667	1.30	1691	1.38	1715	1.45	1738	1.53	1782	1.68	1825	1.83	1866	1.99
3744	2400	1722	1.35	1747	1.44	1772	1.52	1796	1.61	1819	1.69	1842	1.78	1864	1.86	1906	2.02	1946	2.19	1985	2.36
4056	2600	1857	1.69	1881	1.78	1904	1.87	1926	1.96	1948	2.06	1970	2.15	1991	2.24	2031	2.42	2069	2.59	2106	2.77
4368	2800	1993	2.08	2015	2.18	2037	2.27	2058	2.37	2079	2.47	2099	2.57	2119	2.67	2158	2.87	2194	3.06	2230	3.25
4680	3000	2129	2.53	2150	2.63	2170	2.74	2190	2.84	2210	2.95	2229	3.05	2248	3.16	2285	3.37	2320	3.58	2354	3.78
4992	3200	2266	3.04	2285	3.15	2304	3.26	2323	3.37	2342	3.48	2360	3.59	2378	3.71	2414	3.94	2448	4.16	2480	4.38
5304	3400	2402	3.61	2421	3.73	2439	3.85	2457	3.97	2475	4.08	2492	4.20	2509	4.32	2543	4.56	2576	4.81	2608	5.05
5616	3600	2540	4.26	2557	4.38	2574	4.51	2591	4.63	2608	4.76	2625	4.88	2641	5.01	2673	5.26	2705	5.52	2736	5.78

VOL CFM	OV FPM	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1716	1100	1406	0.83																		
1872	1200	1439	0.90																		
2028	1300	1475	0.99	1595	1.22																
2184	1400	1516	1.08	1627	1.32	1739	1.58														
2340	1500	1558	1.18	1668	1.43	1771	1.70	1873	1.97												
2496	1600	1601	1.29	1709	1.55	1809	1.82	1906	2.11	2001	2.40										
2652	1700	1650	1.41	1751	1.68	1850	1.96	1942	2.25	2034	2.56	2123	2.87								
2808	1800	1700	1.54	1795	1.82	1892	2.11	1983	2.41	2068	2.72	2156	3.05	2240	3.38	2321	3.72				
2964	1900	1751	1.68	1844	1.97	1934	2.27	2024	2.58	2109	2.90	2190	3.23	2272	3.57	2353	3.92	2430	4.28		
3120	2000	1802	1.82	1894	2.13	1980	2.44	2066	2.76	2150	3.09	2230	3.43	2306	3.77	2385	4.13	2462	4.50	2535	4.87
3432	2200	1906	2.15	1996	2.48	2079	2.81	2157	3.16	2235	3.51	2313	3.87	2388	4.23	2460	4.60	2529	4.98	2600	5.37
3744	2400	2023	2.53	2099	2.88	2180	3.23	2257	3.60	2329	3.97	2399	4.35	2472	4.74	2543	5.13	2611	5.53	2676	5.94
4056	2600	2142	2.96	2211	3.33	2284	3.71	2358	4.09	2429	4.49	2497	4.89	2562	5.29	2627	5.71	2694	6.13	2759	6.56
4368	2800	2264	3.44	2330	3.83	2393	4.23	2462	4.64	2531	5.06	2597	5.48	2661	5.91	2722	6.34	2781	6.78	2843	7.23
4680	3000	2387	3.99	2451	4.40	2512	4.82	2570	5.25	2635	5.69	2699	6.14	2762	6.59	2822	7.05	2880	7.51	2936	7.97
4992	3200	2512	4.60	2573	5.03	2632	5.48	2688	5.93	2743	6.39	2803	6.86	2864	7.33	2923	7.81	2980	8.29	3035	8.78
5304	3400	2638	5.27	2697	5.74	2753	6.20	2808	6.68	2861	7.16	2912	7.64	2968	8.14	3025	8.64	3081	9.15	3136	9.66
5616	3600	2765	6.03	2822	6.51	2876	7.00	2929	7.50	2980	8.00	3030	8.51	3078	9.02	3130	9.54	3184	10.07	3238	10.61

VOL CFM	OV FPM	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3744	2400	2740	6.35	2869	7.20	2995	8.08														
4056	2600	2822	6.99	2941	7.87	3060	8.78	3178	9.73	3291	10.69										
4368	2800	2905	7.69	3023	8.61	3135	9.55	3243	10.51	3355	11.52										
4680	3000	2991	8.44	3107	9.41	3217	10.40	3323	11.40												
4992	3200	3089	9.27	3192	10.27	3301	11.31														
5304	3400	3188	10.17	3290	11.22																
5616	3600	3289	11.15																		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## SIZE 3018

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	18.25 inches	464 mm
Wheel Circumference	4.78 feet	1.457 m
Inlet Diameter/Area	20.0 inches dia./2.18 sq. ft.	508 mm/2025 m <sup>2</sup>
Outlet Size/Area	19.04 x 14.35 inches I.D./1.90 sq. ft.	484 x 364 mm/1.765 m <sup>2</sup>
Tip Speed	4.78 x RPM ft./minute	1.457 x RPM m/minute
Maximum BHP	.491 x (RPM ÷ 1000) <sup>3</sup> BHP	.3661 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3018	-20° to 150°F	-29° to 66°C
CLASS I	2256	
CLASS II	2943	
CLASS III	3708	
CLASS IV	4000	

VOL CFM	OUT VEL	¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1520	800	605	0.11	659	0.14	707	0.17	756	0.21	804	0.25	852	0.29	899	0.33	1029 1060		1129 1159	
1710	900	653	0.13	704	0.17	749	0.21	795	0.25	837	0.29	880	0.33	920	0.37				
1900	1000	707	0.16	752	0.20	795	0.25	836	0.29	876	0.33	915	0.37	953	0.42				
2090	1100	759	0.20	800	0.24	840	0.29	880	0.33	917	0.38	953	0.42	989	0.47				
2280	1200	812	0.24	853	0.29	891	0.34	927	0.39	960	0.43	996	0.48	1029	0.54	1093 1133		1159 1195	
2470	1300	867	0.29	905	0.34	941	0.39	973	0.44	1008	0.50	1040	0.55	1072	0.60				
2660	1400	920	0.34	959	0.40	992	0.46	1025	0.51	1057	0.57	1088	0.63	1117	0.68				
2850	1500	977	0.41	1012	0.47	1044	0.53	1076	0.59	1107	0.65	1136	0.71	1164	0.77				
3040	1600	1033	0.48	1067	0.54	1097	0.60	1128	0.67	1156	0.73	1185	0.79	1212	0.86	1265 1312		1317 1363	
3230	1700	1089	0.55	1120	0.62	1151	0.69	1180	0.76	1208	0.82	1235	0.89	1261	0.96				
3420	1800	1147	0.64	1176	0.71	1205	0.78	1233	0.86	1260	0.93	1285	1.00	1312	1.07				
3610	1900	1203	0.74	1232	0.81	1260	0.89	1287	0.97	1312	1.04	1337	1.11	1363	1.19				
3800	2000	1260	0.84	1288	0.92	1315	1.00	1341	1.08	1365	1.16	1391	1.24	1413	1.32	1460 1504		1504 1547	
4180	2200	1376	1.09	1401	1.17	1427	1.26	1451	1.35	1473	1.43	1497	1.52	1519	1.61				
4560	2400	1491	1.37	1516	1.47	1539	1.57	1561	1.66	1584	1.76	1605	1.85	1625	1.94				
4940	2600	1608	1.71	1631	1.82	1652	1.92	1673	2.02	1693	2.12	1715	2.23	1735	2.34				
5320	2800	1724	2.09	1745	2.21	1767	2.33	1787	2.44	1807	2.55	1825	2.66	1844	2.77	1881 1917		1917 1952	
5700	3000	1841	2.54	1861	2.66	1881	2.79	1900	2.91	1919	3.03	1937	3.15	1955	3.27				
6080	3200	1960	3.06	1979	3.19	1997	3.32	2015	3.44	2032	3.57	2051	3.71	2067	3.83				
6460	3400	2077	3.62	2095	3.76	2113	3.91	2129	4.03	2147	4.18	2164	4.32	2180	4.45				
6840	3600	2196	4.27	2212	4.41	2229	4.56	2245	4.71	2261	4.85	2277	5.00	2293	5.14	2324 2368		2368 2412	
7220	3800	2313	4.98	2329	5.13	2345	5.29	2361	5.45	2377	5.61	2392	5.76	2407	5.91				
7600	4000	2432	5.78	2448	5.95	2463	6.11	2477	6.26	2493	6.44	2507	6.59	2521	6.75				
7980	4200	2551	6.65	2565	6.82	2580	7.00	2595	7.18	2609	7.35	2623	7.52	2636	7.68				
8360	4400	2669	7.61	2684	7.80	2697	7.97	2712	8.17	2725	8.34	2739	8.52	2752	8.70	2778 2821		2821 2865	
8740	4600	2788	8.66	2802	8.86	2816	9.06	2829	9.24	2841	9.42	2855	9.62	2868	9.81				
9120	4800	2908	9.82	2920	10.00	2933	10.20	2946	10.40	2959	10.60	2971	10.80	2984	11.00				
9500	5000	3027	11.10	3039	11.30	3052	11.50	3064	11.70	3076	11.90	3088	12.10	3100	12.30				
9880	5200	3145	12.40	3157	12.60	3169	12.80	3181	13.00	3193	13.30	3205	13.50	3216	13.70	3239	14.10	3261	14.50

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2470	1300	1312	1.08	1452 1480 1513	1.45 1.56 1.68	1583 1609	1.87 1.99	1731 1760	2.47 2.63	1845 1875	2.99 3.17	1955 1984	3.55 3.75	2059 2099	4.15	2189 2229	5.04 5.29	2259 2299	5.48 5.73	2327 2367	5.93 6.19
2660	1400	1344	1.18																		
2850	1500	1379	1.28																		
3040	1600	1417	1.40																		
3230	1700	1457	1.52	1551	1.82	1640	2.13	1731	2.47	1845 1875 1907	2.99 3.17 3.36	1955 1984	3.55 3.75	2059 2099	4.15	2189 2229	5.04 5.29	2259 2299	5.48 5.73	2327 2367	5.93 6.19
3420	1800	1500	1.66	1589	1.97	1675	2.29	1760	2.63												
3610	1900	1544	1.80	1629	2.12	1712	2.46	1793	2.80												
3800	2000	1589	1.96	1672	2.29	1752	2.64	1829	2.99												
4180	2200	1684	2.31	1761	2.67	1836	3.04	1908	3.41	1980	3.80	2051	4.20	2120	4.61	2189	5.04	2259	5.48	2327	5.93
4560	2400	1781	2.70	1855	3.09	1925	3.49	1993	3.88	2060	4.29	2125	4.71	2191	5.14	2255	5.58	2319	6.03	2383	6.50
4940	2600	1883	3.16	1951	3.57	2017	3.98	2083	4.42	2145	4.84	2208	5.29	2269	5.73	2329	6.19	2389	6.66	2449	7.14
5320	2800	1985	3.66	2051	4.10	2115	4.55	2176	5.00	2236	5.46	2295	5.92	2353	6.40	2409	6.86	2467	7.37	2523	7.86
5700	3000	2089	4.21	2152	4.69	2213	5.17	2272	5.65	2329	6.13	2385	6.62	2440	7.11	2495	7.62	2549	8.13	2601	8.64
6080	3200	2196	4.84	2256	5.35	2313	5.85	2371	6.37	2425	6.87	2479	7.39	2532	7.91	2584	8.44	2635	8.97	2685	9.50
6460	3400	2303	5.53	2361	6.07	2416	6.60	2471	7.15	2524	7.69	2576	8.24	2626	8.75	2676	9.30	2725	9.89	2773	10.40
6840	3600	2412	6.30	2467	6.86	2521	7.43	2573	8.00	2624	8.57	2673	9.13	2723	9.72	2771	10.30	2817	10.90	2864	11.50
7220	3800	2521	7.13	2575	7.73	2626	8.32	2676	8.92	2725	9.52	2773	10.10	2821	10.70	2868	11.40	2913	12.00	2958	12.60
7600	4000	2631	8.04	2683	8.67	2733	9.31	2781	9.93	2829	10.60	2876	11.20	2921	11.80	2965	12.50	3010	13.10	3053	13.70
7980	4200	2742	9.03	2792	9.70	2840	10.40	2888	11.00	2933	11.70	2979	12.40	3023	13.00	3067	13.70	3109	14.40	3151	15.00
8360	4400	2853	10.10	2901	10.80	2949	11.50	2995	12.20	3039	12.90	3083	13.60	3125	14.30	3168	15.00	3209	15.70	3250	16.40
8740	4600	2965	11.30	3012	12.00	3058	12.70	3103	13.50	3145	14.20	3188	14.90	3229	15.60	3271	16.40	3311	17.10	3351	17.80
9120	4800	3079	12.60	3124	13.30	3168	14.10	3211	14.80	3253	15.60	3294	16.30	3335	17.10	3375	17.90	3413	18.60	3452	19.40
9500	5000	3192	13.90	3236	14.70	3279	15.50	3320	16.30	3361	17.10	3401	17.90	3441	18.70	3479	19.50	3515	20.30	3555	21.00
9880	5200	3305	15.40	3348	16.20	3389	17.00	3431	17.90	3470	18.70	3509	19.50	3548	20.30	3585	21.10	3623	22.00	3659	22.80

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3020	-20° to 150°F	-29° to 66°C
CLASS I	2084	
CLASS II	2719	
CLASS III	3426	
CLASS IV	3640	

SINGLE WIDTH  
SINGLE INLET

## SIZE 3020

Wheel Diameter	20.00 inches	508 mm
Wheel Circumference	5.24 feet	1.597 m
Inlet Diameter/Area	21.75 inches dia./2.58 sq. ft.	552 mm/.2397 m <sup>2</sup>
Outlet Size/Area	20.98 x 15.85 inches I.D./2.31 sq. ft.	533 x 403 mm/.2146 m <sup>2</sup>
Tip Speed	5.24 x RPM ft./minute	1.597 x RPM m/minute
Maximum BHP	.775 x (RPM ÷ 1000) <sup>3</sup> BHP	.5779 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1856	800	558	0.13	607	0.17	652	0.21	695	0.26	738	0.31	780	0.35	823	0.41	868	0.46
2088	900	605	0.17	649	0.21	690	0.25	728	0.30	769	0.35	807	0.40	846	0.46	888	0.51
2320	1000	653	0.20	692	0.25	732	0.30	769	0.35	806	0.41	841	0.46	874	0.51	908	0.56
2552	1100	701	0.25	740	0.30	777	0.36	811	0.41	844	0.47	877	0.52	910	0.58	944	0.63
2784	1200	751	0.30	787	0.36	821	0.42	854	0.48	886	0.54	917	0.60	946	0.66	979	0.71
3016	1300	801	0.36	836	0.43	869	0.49	900	0.55	929	0.61	959	0.68	988	0.75	1016	0.81
3248	1400	853	0.43	886	0.50	916	0.57	946	0.63	974	0.70	1002	0.77	1030	0.84	1057	0.90
3480	1500	905	0.51	934	0.58	965	0.65	994	0.73	1020	0.80	1047	0.87	1073	0.95	1100	1.00
3712	1600	956	0.60	986	0.68	1014	0.75	1041	0.83	1068	0.90	1092	0.98	1117	1.06	1146	1.12
3944	1700	1009	0.70	1037	0.78	1064	0.86	1091	0.94	1115	1.02	1141	1.11	1164	1.19	1190	1.25
4176	1800	1062	0.81	1088	0.89	1115	0.98	1139	1.06	1164	1.15	1188	1.24	1211	1.33	1235	1.40
4408	1900	1115	0.93	1141	1.02	1165	1.11	1189	1.20	1213	1.29	1236	1.39	1258	1.48	1281	1.55
4640	2000	1167	1.06	1193	1.16	1217	1.25	1240	1.35	1262	1.44	1285	1.54	1306	1.64	1327	1.72
5104	2200	1274	1.36	1298	1.47	1320	1.58	1342	1.69	1364	1.80	1383	1.89	1404	2.00	1423	2.10
5568	2400	1382	1.72	1404	1.84	1424	1.96	1445	2.08	1466	2.20	1484	2.31	1503	2.42	1520	2.52
6032	2600	1490	2.15	1511	2.28	1530	2.40	1549	2.53	1568	2.66	1587	2.79	1604	2.91	1639	3.16
6496	2800	1599	2.64	1617	2.77	1637	2.92	1655	3.06	1672	3.19	1690	3.33	1707	3.47	1740	3.74
6960	3000	1707	3.20	1725	3.35	1744	3.51	1761	3.65	1778	3.80	1793	3.94	1810	4.09	1842	4.38
7424	3200	1816	3.84	1833	4.00	1850	4.16	1866	4.31	1883	4.48	1899	4.64	1913	4.78	1944	5.10
7888	3400	1926	4.56	1943	4.74	1958	4.91	1974	5.08	1989	5.24	2003	5.40	2019	5.58	2047	5.90
8352	3600	2036	5.38	2053	5.55	2066	5.74	2081	5.92	2095	6.09	2110	6.27	2123	6.44	2151	6.80
8816	3800	2145	6.27	2160	6.47	2174	6.66	2189	6.85	2202	7.03	2217	7.24	2230	7.42	2256	7.78
9280	4000	2256	7.28	2269	7.47	2283	7.68	2297	7.89	2310	8.08	2323	8.28	2336	8.48	2361	8.86
9744	4200	2366	8.39	2379	8.60	2391	8.79	2405	9.02	2418	9.23	2430	9.43	2442	9.63	2467	10.10
10208	4400	2476	9.60	2489	9.83	2501	10.00	2514	10.20	2526	10.50	2538	10.70	2550	10.90	2573	11.30
10672	4600	2586	10.90	2598	11.20	2610	11.40	2622	11.60	2634	11.80	2646	12.10	2657	12.30	2680	12.80
11136	4800	2696	12.40	2708	12.60	2720	12.90	2731	13.10	2743	13.30	2754	13.60	2765	13.80	2787	14.30
11600	5000	2807	13.90	2819	14.20	2829	14.40	2840	14.70	2851	14.90	2862	15.20	2873	15.40	2894	15.90
12064	5200	2918	15.60	2929	15.90	2939	16.20	2950	16.40	2961	16.70	2971	17.00	2981	17.20	3002	17.70

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2784	1200	1177	1.21																		
3016	1300	1204	1.32																		
3248	1400	1233	1.44																		
3480	1500	1267	1.57	1331	1.77																
				1359	1.91	1450	2.28														
3712	1600	1303	1.72	1390	2.07	1475	2.44	1560	2.83												
3944	1700	1341	1.87	1424	2.23	1506	2.62	1586	3.02	1666	3.44										
4176	1800	1381	2.04	1461	2.42	1539	2.81	1615	3.22	1691	3.65	1767	4.11								
4408	1900	1422	2.22	1500	2.62	1574	3.02	1648	3.45	1719	3.87	1791	4.33	1862	4.81						
4640	2000	1464	2.42	1539	2.83	1611	3.24	1682	3.68	1751	4.13	1819	4.59	1888	5.07	1956	5.58				
5104	2200	1553	2.86	1622	3.29	1690	3.74	1756	4.20	1820	4.67	1883	5.15	1946	5.65	2008	6.16	2070	6.69	2132	7.24
5568	2400	1644	3.35	1710	3.82	1773	4.30	1835	4.79	1895	5.28	1955	5.80	2013	6.31	2071	6.84	2128	7.39	2185	7.95
6032	2600	1737	3.91	1801	4.42	1860	4.93	1918	5.44	1975	5.97	2031	6.50	2087	7.05	2142	7.62	2195	8.17	2248	8.75
6496	2800	1833	4.54	1893	5.08	1950	5.63	2006	6.18	2060	6.74	2113	7.30	2166	7.88	2217	8.46	2268	9.05	2319	9.66
6960	3000	1930	5.24	1987	5.82	2042	6.40	2095	6.99	2147	7.58	2197	8.17	2248	8.78	2297	9.39	2345	10.00	2393	10.60
7424	3200	2030	6.03	2084	6.65	2137	7.27	2188	7.89	2237	8.51	2286	9.14	2333	9.77	2380	10.40	2427	11.10	2472	11.70
7888	3400	2129	6.89	2182	7.55	2232	8.20	2281	8.86	2328	9.51	2376	10.20	2421	10.90	2466	11.50	2510	12.20	2554	12.90
8352	3600	2230	7.84	2281	8.55	2329	9.24	2376	9.93	2422	10.61	2467	11.30	2511	12.00	2556	12.70	2598	13.50	2639	14.20
8816	3800	2332	8.89	2381	9.64	2427	10.40	2473	11.10	2516	11.80	2560	12.60	2603	13.30	2645	14.00	2686	14.80	2726	15.50
9280	4000	2435	10.00	2481	10.80	2526	11.60	2570	12.40	2613	13.10	2655	13.90	2696	14.70	2737	15.50	2776	16.20	2816	17.00
9744	4200	2538	11.30	2583	12.10	2627	12.90	2669	13.70	2711	14.50	2751	15.30	2791	16.20	2830	17.00	2868	17.80	2907	18.60
10208	4400	2641	12.60	2685	13.50	2728	14.40	2769	15.20	2809	16.10	2848	16.90	2887	17.70	2925	18.60	2962	19.40	2999	20.30
10672	4600	2746	14.10	2788	15.00	2829	15.90	2869	16.80	2908	17.70	2946	18.60	2984	19.50	3021	20.30	3057	21.20	3093	22.10
11136	4800	2850	15.70	2891	16.60	2931	17.60	2970	18.50	3008	19.40	3045	20.40	3082	21.30	3117	22.20	3153	23.10	3187	24.00
11600	5000	2956	17.40	2996	18.40	3034	19.40	3072	20.40	3109	21.30	3145	22.30	3180	23.20	3215	24.20	3249	25.10	3283	26.10
12064	5200	3061	19.30	3100	20.30	3138	21.30	3174	22.30	3210	23.30	3245	24.30	3280	25.30	3314	26.30	3347	27.30	3380	28.30

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5568	2400	2242	8.52	2356	9.73																
6032	2600	2302	9.35	2407	10.60	2512	11.90														
6496	2800	2368	10.30	2467	11.50	2565	12.80	2662	14.20												
6960	3000	2440	11.30	2534	12.60	2627	13.90	2718	15.30	2809	16.80	2900	18.20								
7424	3200	2518	12.40	2606	13.70	2694	15.10	2781	16.60	2867	18.00	2952	19.50	3038	21.10	3123	22.70	3254	25.90	3333	27.60
7888	3400	2598	13.60	2683	15.00	2766	16.40	2850	17.90	2931	19.40	3013	21.00	3093	22.50	3174	24.20	3308	27.50	3384	29.30
8352	3600	2681	14.90	2763	16.40	2843	17.80	2923	19.40	3001	20.90	3078	22.50	3155	24.10	3231	25.80	3368	29.30	3440	31.10
8816	3800	2766	16.30	2845	17.80	2923	19.40	2999	20.90	3074	22.50	3149	24.20	3222	25.80	3295	27.50				
9280	4000	2855	17.80	2931	19.40	3005	21.00	3079	22.60	3151	24.30	3223	26.00	3293	27.70	3363	29.40	3433	31.20	3503	33.00
9744	4200	2945	19.40	3018	21.10	3090	22.70	3161	24.40	3231	26.20	3300	27.90	3368	29.70	3436	31.50	3503	33.30	3569	35.10
10208	4400	3036	21.10	3107	22.90	3177	24.60	3246	26.40	3314	28.20	3380	29.90	3446	31.80	3511	33.60	3576	35.50	3640	37.40
10672	4600	3128	23.00	3198	24.80	3266	26.60	3332	28.40	3398	30.30	3463	32.10	3527	34.00	3590	35.90				
11136	4800	3222	25.00	3289	26.80	3356	28.70	3420	30.60	3484	32.50	3547	34.40	3609	36.40						
11600	5000	3317	27.10	3383	29.00	3447	30.70	3510	32.60	3572	34.90	3634	36.90								
12064	5200	3413	29.30	3477	31.30	3539	33.30	3601	35.40												

# SILENTVANE™

## SIZE 3022

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	22.25 inches	565 mm
Wheel Circumference	5.83 feet	1.777 m
Inlet Diameter/Area	24.0 inches dia./3.14 sq. ft.	610 mm/2917 m <sup>2</sup>
Outlet Size/Area	23.29 x 17.48 inches I.D./2.83 sq. ft.	592 x 444 mm/2629 m <sup>2</sup>
Tip Speed	5.83 x RPM ft./minute	1.777 x RPM m/minute
Maximum BHP	1.31 x (RPM ÷ 1000) <sup>3</sup> BHP	.9769 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3022	-20° to 150°F	-29° to 66°C
CLASS I	1853	
CLASS II	2418	
CLASS III	3046	
CLASS IV	3250	

VOL CFM	OUT VEL	¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2264	800	497	0.18	541	0.21	582	0.26	621	0.31	660	0.37	699	0.43	737	0.50	775	0.56	813	0.63	851	0.70	889	0.77	926	0.84	963	0.91
2547	900	538	0.20	579	0.25	615	0.31	650	0.36	687	0.43	723	0.49	757	0.56	793	0.63	828	0.70	863	0.77	898	0.84	933	0.91	968	0.98
2830	1000	581	0.25	618	0.31	652	0.36	686	0.43	719	0.49	751	0.56	782	0.63	813	0.70	843	0.77	873	0.84	902	0.91	931	0.98	960	1.05
3113	1100	624	0.30	659	0.37	691	0.43	723	0.50	753	0.56	783	0.63	813	0.71	843	0.78	873	0.86	902	0.93	931	1.00	960	1.07	989	1.14
3396	1200	667	0.36	701	0.43	731	0.50	762	0.58	790	0.65	818	0.73	845	0.80	871	0.87	897	0.94	923	1.01	949	1.08	975	1.15	1001	1.22
3679	1300	712	0.43	743	0.51	772	0.59	801	0.66	829	0.74	855	0.82	881	0.90	907	0.97	932	1.05	957	1.12	982	1.20	1007	1.27	1032	1.34
3962	1400	757	0.52	788	0.60	815	0.68	842	0.76	867	0.84	893	0.93	918	1.02	942	1.10	966	1.19	990	1.27	1014	1.35	1038	1.43	1062	1.51
4245	1500	802	0.61	831	0.70	858	0.79	884	0.88	909	0.96	932	1.05	957	1.15	980	1.23	1002	1.33	1024	1.42	1046	1.51	1068	1.60	1090	1.69
4528	1600	849	0.71	876	0.81	901	0.90	926	1.00	950	1.09	973	1.18	996	1.28	1019	1.37	1039	1.47	1058	1.57	1077	1.67	1095	1.77	1112	1.87
4811	1700	896	0.83	921	0.93	946	1.03	970	1.13	992	1.23	1014	1.33	1036	1.43	1057	1.53	1078	1.63	1097	1.73	1115	1.84	1132	1.94	1149	2.05
5094	1800	941	0.96	966	1.06	990	1.17	1013	1.28	1035	1.38	1056	1.49	1077	1.59	1097	1.69	1117	1.81	1137	1.92	1155	2.03	1172	2.14	1189	2.26
5377	1900	989	1.10	1013	1.22	1036	1.33	1057	1.44	1078	1.55	1099	1.66	1119	1.77	1139	1.88	1158	2.00	1176	2.11	1194	2.22	1211	2.33	1228	2.45
5660	2000	1036	1.26	1058	1.38	1080	1.50	1102	1.62	1122	1.73	1142	1.85	1161	1.97	1180	2.09	1199	2.20	1218	2.31	1237	2.42	1256	2.53	1275	2.64
5943	2100	1083	1.40	1104	1.52	1124	1.64	1143	1.76	1161	1.88	1179	2.00	1197	2.12	1215	2.24	1232	2.35	1249	2.47	1266	2.59	1283	2.71	1300	2.83
6226	2200	1130	1.62	1152	1.76	1172	1.89	1192	2.02	1211	2.15	1229	2.28	1248	2.40	1264	2.52	1280	2.64	1296	2.76	1311	2.88	1326	3.00	1341	3.12
6509	2300	1177	1.68	1196	1.80	1214	1.92	1231	2.04	1248	2.16	1264	2.28	1280	2.40	1296	2.52	1311	2.64	1326	2.76	1341	2.88	1356	3.00	1371	3.12
6792	2400	1225	2.05	1246	2.20	1264	2.34	1283	2.48	1301	2.62	1318	2.76	1336	2.91	1353	3.05	1369	3.19	1384	3.33	1399	3.47	1414	3.60	1429	3.74
7075	2500	1272	2.56	1294	2.71	1312	2.86	1329	3.02	1346	3.18	1362	3.32	1378	3.48	1393	3.62	1408	3.77	1423	3.91	1438	4.05	1453	4.19	1467	4.33
7358	2600	1322	2.56	1344	2.71	1366	2.86	1387	3.02	1408	3.18	1428	3.34	1448	3.50	1467	3.66	1486	3.82	1504	3.98	1522	4.14	1540	4.30	1558	4.46
7641	2700	1372	2.56	1394	2.71	1416	2.86	1436	3.02	1456	3.18	1475	3.34	1494	3.50	1512	3.66	1530	3.82	1548	3.98	1565	4.14	1582	4.30	1599	4.46
7924	2800	1417	3.13	1439	3.30	1462	3.48	1484	3.64	1506	3.81	1527	3.98	1548	4.15	1568	4.32	1588	4.48	1607	4.65	1626	4.81	1645	4.98	1663	5.13
8207	2900	1513	3.80	1535	3.98	1558	4.17	1580	4.35	1601	4.53	1621	4.70	1641	4.89	1660	5.07	1679	5.23	1697	5.39	1715	5.56	1733	5.72	1750	5.89
8490	3000	1611	4.57	1633	4.76	1656	4.95	1678	5.14	1699	5.34	1719	5.53	1738	5.72	1756	5.90	1774	6.07	1791	6.23	1808	6.40	1825	6.56	1842	6.73
8773	3100	1707	5.42	1729	5.62	1752	5.84	1774	6.05	1795	6.24	1815	6.43	1834	6.62	1852	6.80	1870	6.97	1887	7.14	1904	7.31	1921	7.48	1937	7.65
9056	3200	1805	6.39	1827	6.59	1849	6.82	1870	7.03	1890	7.26	1909	7.45	1928	7.68	1946	7.87	1964	8.05	1981	8.23	1998	8.41	2015	8.59	2031	8.77
9339	3300	1901	7.44	1923	7.65	1944	7.92	1964	8.14	1983	8.37	2001	8.56	2019	8.78	2036	8.97	2053	9.15	2070	9.33	2086	9.51	2102	9.69	2118	9.87
9622	3400	1999	8.64	2021	8.89	2042	9.13	2061	9.39	2079	9.63	2096	9.87	2113	10.10	2129	10.33	2145	10.56	2160	10.78	2175	11.00	2190	11.21	2205	11.42
9905	3500	2096	9.94	2118	10.20	2139	10.50	2158	10.70	2177	11.00	2195	11.20	2212	11.50	2229	11.80	2245	12.00	2260	12.20	2275	12.40	2290	12.60	2305	12.80
10188	3600	1805	6.39	1815	6.60	1832	6.82	1845	7.03	1859	7.26	1872	7.49	1884	7.68	1896	7.87	1907	8.06	1917	8.25	1927	8.44	1936	8.63	1945	8.82
10471	3700	1901	7.44	1911	7.69	1928	7.92	1940	8.14	1953	8.37	1966	8.61	1978	8.84	1989	9.07	1999	9.25	2008	9.43	2017	9.61	2025	9.79	2033	9.97
10754	3800	1999	8.64	2009	8.89	2024	9.13	2037	9.39	2049	9.63	2061	9.87	2072	10.10	2082	10.33	2092	10.56	2101	10.78	2109	11.00	2117	11.21	2124	11.42
11037	3900	2096	9.94	2106	10.20	2120	10.50	2132	10.70	2144	11.00	2156	11.20	2167	11.50	2177	11.80	2187	12.00	2196	12.20	2204	12.40	2212	12.60	2219	12.80
11320	4000	1999	8.64	2009	8.89	2024	9.13	2037	9.39	2049	9.63	2061	9.87	2072	10.10	2082	10.33	2092	10.56	2101	10.78	2109	11.00	2117	11.21	2124	11.42
11603	4100	2096	9.94	2106	10.20	2120	10.50	2132	10.70	2144	11.00	2156	11.20	2167	11.50	2177	11.80	2187	12.00	2196	12.20	2204	12.40	2212	12.60	2219	12.80
11886	4200	2096	9.94	2106	10.20	2120	10.50	2132	10.70	2144	11.00	2156	11.20	2167	11.50	2177	11.80	2187	12.00	2196	12.20	2204	12.40	2212	12.60	2219	12.80
12169	4300	2194	11.40	2206	11.70	2217	11.90	2228	12.20	2239	12.50	2249	12.70	2260	13.00	2269	13.20	2278	13.40	2286	13.50	2294	13.70	2302	13.90	2309	14.10
12452	4400	2291	12.90	2303	13.20	2314	13.50	2325	13.80	2335	14.10	2345	14.40	2354	14.70	2363	15.00	2371	15.20	2379	15.40	2387	15.70	2394	16.00	2401	16.30
12735	4500	2390	14.70	2401	15.00	2410	15.20	2421	15.50	2432	15.90	2442	16.20	2452	16.40	2461	16.70	2470	17.00	2478	17.20	2486	17.50	2493	17.80	2500	18.10
13018	4600	2487	16.50	2498	16.90	2508	17.20	2518	17.50	2527	17.70	2536	18.00	2545	18.40	2554	18.80	2562	19.00	2569	19.30	2576	19.60	2583	19.90	2590	20.20
13301	4700	2584	18.30	2595	18.80	2599	19.00	2603	19.20	2615	19.50	2625	19.80	2634	20.10	2643	20.50	2651	20.80	2658	21.10	2665	21.40	2671	21.70	2677	22.00
13584	4800	2681	20.10	2692	20.60	2696	20.80	2700	21.00	2712	21.30	2721	21.60	2730	22.00	2738	22.40	2745	22.80	2752	23.10	2758	23.40	2764	23.70	2770	24.00
13867	4900	2778	21.90	2789	22.40	2793	22.60	2797	22.80	2809	23.10	2817	23.40	2825	23.80	2832	24.20	2839	24.60	2845	24.90	2851	25.20	2856	25.50	2861	25.80
14150	5000	2875	23.70	2886	24.20	2890	24.40	2894	24.60	2906	24.90	2914	25.20	2922	25.60	2929	26.00	2935	26.40	2941	26.70	2946	27.00	2951	27.30	2956	27.60
14433	5100	2972	25.50	2983	26.00	2987	26.20	2991	26.40	3003	26.70	3010	27.00	3017	27.40	3024	27.80	3030	28.20	3036	28.50	3041	28.80	3046	29.10	3051	29.40
14716	5200	2585	18.50	2595	18.90	2605	19.20	2615	19.50	2625	19.80	2634	20.10	2643	20.50	2652	20.80	2661	21.10	2670	21.40	2679	21.70	2688	22.00	2696	22.30

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

## SIZE 3024

SIZE 3024	-20° to 150°F	-29° to 66°C
CLASS I	1599	
CLASS II	2086	
CLASS III	2628	
CLASS IV	2970	

Wheel Diameter	24.50 inches	622 mm
Wheel Circumference	6.41 feet	1.954 m
Inlet Diameter/Area	27.0 inches dia./3.98 sq. ft.	686 mm/.3697 m <sup>2</sup>
Outlet Size/Area	25.60 x 19.35 inches I.D./3.44 sq. ft.	650 x 491 mm/.3196 m <sup>2</sup>
Tip Speed	6.41 x RPM ft./minute	1.954 x RPM m/minute
Maximum BHP	2.31 x (RPM ÷ 1000) <sup>3</sup> BHP	1.723 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2768	800	432	0.19	472	0.24	511	0.31	548	0.37	584	0.44	620	0.51	653	0.58	748 769		821 844		889 910	
3114	900	465	0.23	503	0.29	539	0.36	572	0.43	606	0.50	639	0.58	671	0.66						
3460	1000	501	0.28	535	0.35	567	0.42	600	0.50	631	0.58	661	0.66	691	0.74						
3806	1100	538	0.34	569	0.42	600	0.50	630	0.58	658	0.66	687	0.75	715	0.84	748 769		821 844		889 910	
4152	1200	574	0.41	604	0.49	634	0.58	661	0.67	688	0.75	715	0.85	741	0.94	792		841		889	
4498	1300	613	0.49	641	0.58	668	0.67	693	0.76	720	0.86	744	0.95	769	1.05	818		864		910	
4844	1400	652	0.59	678	0.68	703	0.78	729	0.88	752	0.98	776	1.08	799	1.18	844		889		933	
5190	1500	691	0.69	716	0.80	740	0.90	762	1.00	786	1.11	809	1.22	831	1.32	874		916		957	
5536	1600	731	0.81	754	0.92	777	1.03	799	1.14	821	1.25	841	1.36	863	1.48	905		944		984	
5882	1700	771	0.95	792	1.06	815	1.18	836	1.29	856	1.41	877	1.53	897	1.65	937		974		1012	
6228	1800	811	1.09	832	1.21	852	1.33	873	1.46	893	1.58	912	1.71	931	1.83	969		1006		1041	
6574	1900	851	1.26	871	1.38	891	1.51	911	1.64	930	1.77	948	1.90	966	2.03	1003		1038		1072	
6920	2000	892	1.44	911	1.57	930	1.70	948	1.84	966	1.97	985	2.12	1002	2.25	1037		1071		1104	
7612	2200	974	1.86	992	2.01	1009	2.15	1026	2.30	1042	2.44	1059	2.59	1075	2.74	1108		1138		1170	
8304	2400	1056	2.35	1072	2.50	1089	2.67	1104	2.82	1120	2.99	1135	3.16	1150	3.31	1180		1210		1238	
8996	2600	1139	2.93	1154	3.10	1169	3.27	1184	3.45	1198	3.61	1213	3.79	1227	3.97	1255		1282		1310	
9688	2800	1223	3.61	1237	3.79	1250	3.97	1264	4.15	1277	4.33	1291	4.53	1305	4.72	1331		1356		1382	
10380	3000	1306	4.38	1319	4.57	1332	4.76	1344	4.95	1357	5.15	1370	5.36	1383	5.56	1408		1433		1456	
11072	3200	1390	5.26	1402	5.46	1414	5.67	1427	5.89	1438	6.09	1450	6.30	1462	6.51	1486		1509		1532	
11764	3400	1473	6.24	1485	6.46	1497	6.69	1508	6.91	1520	7.14	1531	7.36	1542	7.58	1564		1586		1608	
12456	3600	1557	7.35	1568	7.58	1580	7.84	1590	8.05	1601	8.29	1612	8.53	1623	8.78	1643		1665		1685	
13148	3800	1641	8.58	1652	8.84	1662	9.08	1673	9.34	1683	9.58	1694	9.85	1704	10.10	1724		1743		1763	
13840	4000	1726	10.00	1736	10.20	1746	10.50	1756	10.80	1765	11.00	1775	11.30	1785	11.50	1804		1823		1842	
14532	4200	1811	11.50	1820	11.80	1830	12.00	1838	12.30	1848	12.60	1857	12.80	1867	13.10	1885		1904		1922	
15224	4400	1895	13.20	1904	13.40	1913	13.70	1922	14.00	1931	14.30	1940	14.60	1948	14.90	1965		1984		2001	
15916	4600	1980	15.00	1988	15.30	1997	15.60	2006	15.90	2014	16.20	2023	16.50	2031	16.80	2048		2065		2081	
16608	4800	2064	17.00	2072	17.30	2081	17.60	2089	17.90	2097	18.20	2106	18.50	2114	18.80	2129		2146		2162	
17300	5000	2149	19.10	2157	19.50	2165	19.80	2173	20.10	2181	20.40	2189	20.80	2197	21.10	2212		2228		2243	
17992	5200	2233	21.40	2241	21.80	2249	22.10	2256	22.40	2264	22.80	2272	23.20	2279	23.50	2295		2309		2324	

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4498	1300	954	1.91																		
4844	1400	974	2.07	1056	2.56																
5190	1500	997	2.25	1076	2.76																
5536	1600	1023	2.46	1097	2.98	1151	3.29														
						1170	3.53														
5882	1700	1049	2.66	1121	3.21	1190	3.77	1258	4.36												
6228	1800	1077	2.89	1145	3.45	1213	4.04	1278	4.65	1342	5.28										
6574	1900	1107	3.14	1172	3.72	1237	4.33	1301	4.96	1361	5.60	1422	6.27								
6920	2000	1137	3.40	1201	4.01	1262	4.62	1324	5.28	1383	5.95	1440	6.62	1498	7.33						
7612	2200	1201	3.99	1260	4.63	1318	5.30	1374	5.98	1430	6.69	1484	7.40	1538	8.15	1591	8.91	1642	9.67	1694	10.50
8304	2400	1267	4.65	1323	5.34	1377	6.05	1431	6.79	1482	7.51	1534	8.29	1584	9.06	1633	9.84	1683	10.70	1732	11.50
8996	2600	1336	5.40	1389	6.14	1439	6.88	1490	7.64	1539	8.44	1588	9.26	1635	10.10	1682	10.90	1729	11.80	1774	12.60
9688	2800	1408	6.25	1457	7.03	1505	7.82	1552	8.63	1599	9.47	1645	10.30	1690	11.20	1734	12.00	1779	12.90	1822	13.80
10380	3000	1480	7.19	1527	8.02	1573	8.87	1618	9.73	1662	10.60	1706	11.50	1748	12.40	1791	13.30	1832	14.20	1874	15.20
11072	3200	1554	8.24	1599	9.13	1642	10.00	1685	10.90	1728	11.90	1769	12.80	1810	13.70	1850	14.70	1890	15.60	1930	16.50
11764	3400	1630	9.42	1672	10.30	1714	11.30	1754	12.20	1795	13.20	1834	14.20	1873	15.20	1912	16.20	1950	17.20	1988	18.20
12456	3600	1706	10.70	1746	11.70	1786	12.70	1825	13.70	1863	14.70	1901	15.70	1938	16.70	1976	17.80	2012	18.80	2048	19.90
13148	3800	1783	12.10	1822	13.20	1859	14.20	1897	15.20	1933	16.30	1970	17.40	2006	18.40	2041	19.50	2077	20.60	2111	21.70
13840	4000	1861	13.70	1898	14.70	1934	15.80	1970	16.80	2006	18.10	2040	19.10	2075	20.30	2109	21.40	2144	22.50	2178	23.70
14320	4200	1937	15.40	1975	16.50	2010	17.60	2047	18.80	2083	19.90	2119	21.10	2154	22.30	2189	23.50	2224	24.60	2248	25.80
15244	4400	2019	17.20	2052	18.40	2086	19.60	2119	20.80	2152	22.00	2184	23.20	2216	24.40	2248	25.60	2279	26.90	2310	28.10
15916	4600	2098	19.20	2130	20.40	2163	21.70	2195	22.90	2227	24.20	2257	25.40	2289	26.70	2319	28.00	2349	29.20	2379	30.50
16608	4800	2178	21.40	2210	22.70	2242	23.90	2271	25.20	2302	26.50	2332	27.80	2362	29.20	2391	30.50	2421	31.80	2449	33.10
17300	5000	2259	23.80	2292	25.20	2329	26.40	2368	27.70	2378	29.10	2407	30.40	2436	31.80	2464	33.10	2493	34.50	2521	35.90
17992	5200	2339	26.20	2368	27.60	2398	29.00	2426	30.40	2454	31.70	2483	33.20	2511	34.60	2538	36.00	2566	37.50	2593	38.90

# SILENTVANE™

## SIZE 3027

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	27.00 inches	686 mm
Wheel Circumference	7.07 feet	2.155 m
Inlet Diameter/Area	29.5 inches dia./4.75 sq. ft.	749 mm/4413 m <sup>2</sup>
Outlet Size/Area	28.29 x 21.35 inches I.D./4.20 sq. ft.	719 x 542 mm/3902 m <sup>2</sup>
Tip Speed	7.07 x RPM ft./minute	2.155 x RPM m/minute
Maximum BHP	3.76 x (RPM ÷ 1000) <sup>3</sup> BHP	2.804 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3027	-20° to 150°F	-29° to 66°C
CLASS I	1450	
CLASS II	1892	
CLASS III	2384	
CLASS IV	2670	

VOL CFM	OUT VEL	1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3360	800	392	0.22	427	0.29	463	0.37	498	0.45	530	0.53	561	0.62	595	0.72
3780	900	422	0.28	454	0.35	489	0.44	520	0.52	550	0.61	578	0.70	609	0.80
4200	1000	454	0.34	486	0.43	515	0.51	543	0.60	572	0.70	600	0.80	628	0.90
4620	1100	488	0.42	516	0.51	543	0.60	571	0.70	596	0.80	623	0.91	649	1.02
5040	1200	522	0.50	548	0.60	575	0.71	600	0.81	623	0.91	649	1.03	672	1.14
5460	1300	556	0.60	581	0.71	605	0.81	629	0.93	653	1.05	676	1.16	698	1.28
5880	1400	591	0.71	614	0.82	638	0.95	660	1.06	683	1.19	703	1.30	725	1.43
6300	1500	627	0.84	650	0.97	671	1.09	692	1.21	712	1.34	733	1.47	754	1.61
6720	1600	663	0.99	684	1.12	705	1.25	724	1.38	745	1.52	764	1.65	783	1.79
7140	1700	699	1.15	719	1.28	739	1.43	758	1.57	777	1.71	796	1.86	813	1.99
7560	1800	735	1.32	755	1.48	773	1.62	792	1.77	810	1.92	828	2.08	845	2.22
7980	1900	773	1.53	790	1.68	808	1.83	826	1.99	843	2.15	860	2.31	877	2.47
8400	2000	809	1.75	827	1.91	844	2.07	861	2.24	877	2.40	894	2.57	910	2.74
9240	2200	884	2.26	899	2.42	915	2.60	930	2.78	946	2.97	960	3.14	975	3.32
10080	2400	959	2.86	973	3.04	987	3.23	1001	3.42	1015	3.61	1030	3.82	1044	4.02
10920	2600	1033	3.55	1047	3.76	1060	3.96	1073	4.17	1087	4.39	1100	4.60	1112	4.80
11760	2800	1109	4.37	1121	4.59	1134	4.81	1146	5.03	1159	5.27	1171	5.49	1183	5.71
12600	3000	1185	5.31	1196	5.54	1208	5.78	1220	6.03	1232	6.27	1243	6.51	1254	6.74
13440	3200	1260	6.36	1272	6.63	1282	6.87	1294	7.14	1305	7.40	1315	7.64	1326	7.90
14280	3400	1337	7.59	1347	7.84	1357	8.10	1368	8.38	1379	8.67	1388	8.91	1399	9.21
15120	3600	1412	8.91	1422	9.19	1433	9.50	1443	9.79	1452	10.10	1462	10.40	1472	10.60
15960	3800	1489	10.40	1499	10.70	1508	11.00	1517	11.30	1526	11.60	1536	11.90	1545	12.20
16800	4000	1566	12.10	1574	12.40	1583	12.70	1592	13.00	1601	13.40	1610	13.70	1619	14.00
17640	4200	1642	13.90	1651	14.30	1659	14.60	1668	14.90	1676	15.30	1685	15.60	1693	15.90
18480	4400	1719	16.00	1727	16.30	1735	16.70	1743	17.00	1752	17.40	1760	17.70	1768	18.10
19320	4600	1795	18.20	1803	18.50	1811	18.90	1819	19.30	1826	19.60	1834	20.00	1842	20.30
20160	4800	1872	20.60	1880	21.00	1887	21.30	1895	21.70	1902	22.10	1910	22.50	1917	22.90
21000	5000	1949	23.20	1956	23.60	1963	24.00	1970	24.30	1978	24.80	1985	25.20	1992	25.60
21840	5200	2026	26.00	2033	26.40	2040	26.90	2047	27.30	2053	27.60	2060	28.10	2067	28.50

VOL CFM	OUT VEL	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5460	1300	865	2.31	884	2.52	903	2.73	922	2.94	941	3.15	960	3.36	979	3.57	998	3.78	1017	3.99	1036	4.20
5880	1400	927	2.97	959	3.12	991	3.35	1023	3.58	1055	3.81	1087	4.04	1119	4.27	1151	4.50	1183	4.73	1215	4.96
6300	1500	995	3.74	1034	3.95	1073	4.16	1112	4.37	1151	4.58	1190	4.79	1229	5.00	1268	5.21	1307	5.42	1346	5.63
6720	1600	1062	4.59	1101	4.80	1140	5.01	1179	5.22	1218	5.43	1257	5.64	1296	5.85	1335	6.06	1374	6.27	1413	6.48
7140	1700	1130	5.51	1169	5.72	1208	5.93	1247	6.14	1286	6.35	1325	6.56	1364	6.77	1403	6.98	1442	7.19	1481	7.40
7560	1800	1200	6.60	1239	6.81	1278	7.02	1317	7.23	1356	7.44	1395	7.65	1434	7.86	1473	8.07	1512	8.28	1551	8.49
7980	1900	1270	7.79	1309	8.00	1348	8.21	1387	8.42	1426	8.63	1465	8.84	1504	9.05	1543	9.26	1582	9.47	1621	9.68
8400	2000	1340	8.99	1379	9.20	1418	9.41	1457	9.62	1496	9.83	1535	10.04	1574	10.25	1613	10.46	1652	10.67	1691	10.88
9240	2200	1480	11.19	1519	11.40	1558	11.61	1597	11.82	1636	12.03	1675	12.24	1714	12.45	1753	12.66	1792	12.87	1831	13.08
10080	2400	1620	13.59	1659	13.80	1698	14.01	1737	14.22	1776	14.43	1815	14.64	1854	14.85	1893	15.06	1932	15.27	1971	15.48
10920	2600	1760	16.19	1799	16.40	1838	16.61	1877	16.82	1916	17.03	1955	17.24	1994	17.45	2033	17.66	2072	17.87	2111	18.08
11760	2800	1900	18.79	1939	19.00	1978	19.21	2017	19.42	2056	19.63	2095	19.84	2134	20.05	2173	20.26	2212	20.47	2251	20.68
12600	3000	2040	21.39	2079	21.60	2118	21.81	2157	22.02	2196	22.23	2235	22.44	2274	22.65	2313	22.86	2352	23.07	2391	23.28
13440	3200	2180	24.00	2219	24.21	2258	24.42	2297	24.63	2336	24.84	2375	25.05	2414	25.26	2453	25.47	2492	25.68	2531	25.89
14280	3400	2320	26.60	2359	26.81	2398	27.02	2437	27.23	2476	27.44	2515	27.65	2554	27.86	2593	28.07	2632	28.28	2671	28.49
15120	3600	2460	29.21	2499	29.42	2538	29.63	2577	29.84	2616	30.05	2655	30.26	2694	30.47	2733	30.68	2772	30.89	2811	31.10
15960	3800	2600	31.81	2639	32.02	2678	32.23	2717	32.44	2756	32.65	2795	32.86	2834	33.07	2873	33.28	2912	33.49	2951	33.70
16800	4000	2740	34.42	2779	34.63	2818	34.84	2857	35.05	2896	35.26	2935	35.47	2974	35.68	3013	35.89	3052	36.10	3091	36.31
17640	4200	2880	37.03	2919	37.24	2958	37.45	2997	37.66	3036	37.87	3075	38.08	3114	38.29	3153	38.50	3192	38.71	3231	38.92
18480	4400	3020	39.64	3059	39.85	3098	40.06	3137	40.27	3176	40.48	3215	40.69	3254	40.90	3293	41.11	3332	41.32	3371	41.53
19320	4600	3160	42.25	3199	42.46	3238	42.67	3277	42.88	3316	43.09	3355	43.30	3394	43.51	3433	43.72	3472	43.93	3511	44.14
20160	4800	3300	44.86	3339	45.07	3378	45.28	3417	45.49	3456	45.70	3495	45.91	3534	46.12	3573	46.33	3612	46.54	3651	46.75
21000	5000	3440	47.47	3479	47.68	3518	47.89	3557	48.10	3596	48.31	3635	48.52	3674	48.73	3713	48.94	3752	49.15	3791	49.36
21840	5200	3580	50.08	3619	50.29	3658	50.50	3697	50.71	3736	50.92	3775	51.13	3814	51.34	3853	51.55	3892	51.76	3931	51.97

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10080	2400	1614	15.00	1653	15.60	1692	16.20	1731	16.80	1770	17.40	1809	18.00	1848	18.60	1887	19.20	1926	19.80	1965	20.40
10920	2600	1692	17.90	1731	18.50	1770	19.10	1809	19.70	1848	20.30	1887	20.90	1926	21.50	1965	22.10	2004	22.70	2043	23.30
11760	2800	1770	20.80	1809	21.40	1848	22.00	1887	22.60	1926	23.20	1965	23.80	2004	24.40	2043	25.00	2082	25.60	2121	26.20
12600	3000	1848	23.70	1887	24.30	1926	24.90	1965	25.50	2004	26.10	2043	26.70	2082	27.30	2121	27.90	2160	28.50	2199	29.10

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

SIZE 3030

SIZE 3030	-20° to 150°F	-29° to 66°C
CLASS I	1271	
CLASS II	1659	
CLASS III	2090	
CLASS IV	2420	

Wheel Diameter	30.00 inches	762 mm
Wheel Circumference	7.85 feet	2.393 m
Inlet Diameter/Area	32.5 inches dia./5.76 sq. ft.	825 mm/.5351 m <sup>2</sup>
Outlet Size/Area	31.42 x 23.48 inches I.D./5.12 sq. ft.	798 x 596 mm/.4757 m <sup>2</sup>
Tip Speed	7.85 x RPM ft./minute	2.393 x RPM m/minute
Maximum BHP	6.55 x (RPM ÷ 1000) <sup>3</sup> BHP	4.884 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4104	800	344	0.27	377	0.35	408	0.43	440	0.53	468	0.62	499	0.72	527	0.82	553	0.91	579	1.00	604	1.09	629	1.18	654	1.27	679	1.36
4617	900	370	0.33	400	0.42	429	0.51	457	0.61	484	0.71	511	0.81	538	0.91	564	1.01	591	1.11	617	1.21	643	1.31	669	1.41	695	1.51
5130	1000	398	0.40	426	0.51	452	0.61	479	0.72	504	0.82	529	0.93	553	1.05	577	1.15	601	1.25	625	1.35	649	1.45	673	1.55	697	1.65
5643	1100	428	0.49	452	0.60	478	0.72	502	0.83	524	0.94	549	1.07	572	1.19	595	1.29	618	1.39	641	1.49	664	1.59	687	1.69	710	1.79
6156	1200	457	0.59	481	0.71	504	0.83	527	0.96	549	1.08	570	1.21	592	1.34	613	1.46	633	1.58	653	1.70	674	1.82	694	1.94	714	2.06
6669	1300	488	0.71	510	0.84	532	0.97	553	1.10	573	1.23	594	1.37	613	1.50	633	1.63	653	1.75	673	1.87	693	1.99	713	2.11	733	2.23
7182	1400	519	0.84	539	0.98	559	1.12	579	1.26	599	1.41	618	1.55	637	1.69	657	1.81	677	1.93	697	2.05	717	2.17	737	2.29	757	2.41
7695	1500	550	0.99	570	1.14	588	1.29	607	1.44	625	1.59	644	1.75	661	1.89	679	2.03	697	2.17	715	2.31	733	2.45	751	2.59	769	2.73
8208	1600	581	1.16	600	1.32	618	1.48	636	1.64	653	1.80	670	1.96	687	2.12	704	2.28	721	2.43	738	2.58	755	2.73	772	2.88	789	3.03
8721	1700	613	1.35	631	1.52	648	1.69	665	1.86	681	2.02	698	2.20	714	2.37	730	2.53	747	2.69	763	2.85	779	3.01	795	3.17	811	3.33
9234	1800	645	1.56	661	1.73	678	1.91	694	2.09	710	2.27	725	2.45	741	2.63	757	2.81	773	2.97	789	3.13	805	3.29	821	3.45	837	3.61
9747	1900	678	1.79	694	1.98	709	2.17	724	2.35	739	2.54	754	2.73	769	2.93	784	3.11	799	3.29	814	3.47	829	3.65	844	3.83	859	4.01
10260	2000	711	2.06	725	2.24	740	2.44	754	2.63	769	2.84	782	3.02	797	3.23	811	3.43	825	3.62	839	3.81	853	4.00	867	4.19	881	4.38
11286	2200	776	2.64	790	2.86	803	3.07	816	3.29	829	3.50	842	3.71	855	3.93	868	4.14	881	4.35	894	4.56	907	4.77	920	4.98	933	5.19
12312	2400	842	3.35	854	3.57	866	3.80	879	4.03	891	4.28	903	4.51	915	4.75	927	4.98	939	5.21	951	5.44	963	5.67	975	5.90	987	6.13
13338	2600	908	4.17	920	4.42	931	4.67	942	4.92	953	5.17	965	5.43	976	5.68	987	5.93	998	6.18	1009	6.43	1020	6.67	1031	6.91	1042	7.15
14364	2800	974	5.11	986	5.40	996	5.66	1007	5.94	1017	6.21	1028	6.49	1038	6.76	1048	7.03	1058	7.30	1068	7.57	1078	7.84	1088	8.11	1098	8.38
15390	3000	1041	6.21	1051	6.49	1062	6.81	1071	7.08	1081	7.37	1091	7.67	1100	7.94	1110	8.21	1120	8.48	1130	8.75	1140	9.02	1150	9.29	1160	9.56
16416	3200	1108	7.45	1118	7.78	1127	8.07	1137	8.40	1145	8.68	1155	9.01	1164	9.32	1173	9.63	1183	9.94	1192	10.25	1202	10.56	1211	10.87	1221	11.18
17442	3400	1175	8.85	1184	9.19	1193	9.52	1202	9.86	1211	10.20	1219	10.50	1228	10.80	1237	11.10	1246	11.40	1255	11.70	1264	12.00	1273	12.30	1282	12.60
18468	3600	1243	10.50	1251	10.80	1259	11.10	1267	11.50	1276	11.80	1284	12.20	1292	12.50	1300	12.80	1308	13.10	1316	13.40	1324	13.70	1332	14.00	1340	14.30
19494	3800	1310	12.20	1318	12.60	1325	12.90	1333	13.30	1341	13.70	1349	14.00	1357	14.40	1365	14.70	1373	15.00	1381	15.30	1389	15.60	1397	15.90	1405	16.20
20520	4000	1377	14.11	1385	14.50	1392	14.90	1400	15.30	1407	15.70	1415	16.10	1422	16.50	1430	16.80	1437	17.10	1445	17.40	1453	17.70	1461	18.00	1469	18.30
21546	4200	1445	16.30	1452	16.70	1459	17.10	1466	17.50	1473	17.90	1480	18.30	1487	18.70	1494	19.00	1501	19.30	1508	19.60	1515	19.90	1522	20.20	1529	20.50
22572	4400	1512	18.70	1519	19.10	1526	19.50	1533	19.90	1539	20.30	1546	20.80	1553	21.20	1560	21.60	1567	21.90	1574	22.20	1581	22.50	1588	22.80	1595	23.10
23598	4600	1579	21.20	1586	21.70	1593	22.10	1599	22.60	1606	23.00	1612	23.40	1619	23.80	1626	24.10	1633	24.40	1640	24.70	1647	25.00	1654	25.30	1661	25.60
24624	4800	1647	24.00	1654	24.50	1660	25.00	1666	25.40	1672	25.90	1679	26.40	1685	26.80	1692	27.10	1699	27.40	1706	27.70	1713	28.00	1720	28.30	1727	28.60
25650	5000	1715	27.10	1721	27.60	1727	28.10	1733	28.50	1739	29.00	1745	29.50	1751	30.00	1757	30.40	1764	30.70	1771	31.00	1778	31.30	1785	31.60	1792	31.90
26676	5200	1783	30.40	1788	30.90	1794	31.40	1800	31.90	1806	32.40	1812	32.90	1817	33.40	1823	33.80	1829	34.20	1835	34.60	1841	35.00	1847	35.40	1853	35.80

VOL	OUT	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
6156	1200	752	2.46																			
6669	1300	766	2.69	837	3.34																	
7182	1400	781	2.94	849	3.61	914	4.30															
7695	1500	799	3.21	862	3.89	925	4.62															
8208	1600	817	3.49	879	4.22	939	4.97	997	5.75													
8721	1700	837	3.79	897	4.56	954	5.34	1010	6.15	1064	6.97											
9234	1800	859	4.13	916	4.92	971	5.73	1024	6.55	1077	7.42	1129	8.32									
9747	1900	882	4.49	937	5.32	990	6.16	1041	7.02	1091	7.89	1141	8.81	1190	9.75	1237	10.70					
10260	2000	906	4.88	958	5.72	1009	6.60	1059	7.49	1108	8.42	1156	9.35	1203	10.30	1249	11.30	1294	12.30			
11286	2200	956	5.72	1004	6.63	1052	7.58	1098	8.53	1144	9.52	1188	10.50	1233	11.50	1276	12.60	1319	13.60	1361	14.70	
12312	2400	1008	6.67	1054	7.68	1098	8.68	1141	9.69	1184	10.70	1226	11.80	1267	12.80	1308	13.90	1349	15.10	1388	16.20	
13338	2600	1063	7.76	1105	8.81	1146	9.37	1187	11.00	1228	12.10	1267	13.20	1307	14.40	1345	15.50	1383	16.70	1421	17.90	
14364	2800	1119	8.96	1159	10.10	1198	11.20	1237	12.40	1275	13.60	1312	14.80	1349	16.00	1385	17.20	1421	18.40	1458	19.70	
15390	3000	1177	10.30	1214	11.50	1251	12.70	1287	13.90	1324	15.20	1359	16.50	1394	17.70	1429	19.00	1463	20.30	1497	21.60	
16416	3200	1236	11.80	1271	13.10	1306	14.40	1341	15.70	1378	17.00	1408	18.30	1442	19.70	1475	21.00	1508	22.40	1540	23.80	
17442	3400	1296	13.50	1329	14.80	1362	16.20	1396	17.60	1428	19.00	1460	20.40	1492	21.80	1523	23.20	1554	24.60	1585	26.00	
18468	3600	1357	15.30	1388	16.70	1420	18.20	1451	19.60	1482	21.10	1513	22.60	1543	24.00	1573	25.50	1603	27.00	1632	28.50	
19494	3800	1418	17.30	1449	18.90	1479	20.40	1508	21.90	1538	23.40	1567	24.90	1596	26.50	1625	28.10	1653	29.60	1681	31.20	
20524	4000	1480	19.50	1509	21.10	1538	22.40	1567	24.00	1596	25.50	1625	27.00	1653	28.50	1681	30.00	1708	32.40	1732	34.00	
21546	4200	1543	22.00	1571	23.60	1598	25.30	1625	26.90	1653	28.60	1679	30.30	1706	32.00	1732	33.70	1758	35.40	1784	37.10	
22572	4400	1607	24.60	1633	26.30	1659	28.00		1685	29.80	1711	31.50	1737	33.30	1762	35.00	1788	36.80	1813	38.60	1838	40.40
23598	4600	1670	27.50	1696	29.30	1721	31.10	1746	32.90	1771	34.70	1795	36.50	1820	38.40	1844	40.20	1868	42.00	1892	43.90	
24624	4800	1733	30.60	1759	31.90	1783	33.60	1807	35.30	1830	37.00	1854	39.00	1878	41.00	1901	43.00	1925	45.00	1948	47.00	
25650	5000	1796	33.80	1821	35.70	1845	37.70	1868	39.70	1891	41.70	1914	43.60	1937	45.60	1959	47.60	1982	49.60	2005	51.60	
26676	5200	1863	37.40	1885	39.40	1908	41.50	1930	43.50	1953	45.60	1975	47.60	1996	49.60	2018	51.70	2040	53.70	2062	55.80	

# SILENTVANE™

## SIZE 3033

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	33.00 inches	838 mm
Wheel Circumference	8.64 feet	2.633 m
Inlet Diameter/Area	35.5 inches dia./6.87 sq. ft.	902 mm/6382 m <sup>2</sup>
Outlet Size/Area	34.60 x 26.10 inches I.D./6.27 sq. ft.	879 x 663 mm/5825 m <sup>2</sup>
Tip Speed	8.64 x RPM ft./minute	2.633 RPM m/minute
Maximum BHP	10.58 x (RPM ÷ 1000) <sup>3</sup> BHP	7.890 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3033	-20° to 150°F	-29° to 66°C
CLASS I	1163	
CLASS II	1517	
CLASS III	1912	
CLASS IV	2200	

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1 1/8" SP		1 1/4" SP		1 3/8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5008	800	314	0.33	344	0.43	373	0.54	400	0.64	428	0.76	454	0.88	479	1.00
5634	900	337	0.40	366	0.50	392	0.63	417	0.75	442	0.87	466	1.00	491	1.14
6260	1000	364	0.50	389	0.62	414	0.75	437	0.88	460	1.01	483	1.15	505	1.29
6886	1100	391	0.60	414	0.74	436	0.87	458	1.01	480	1.16	501	1.31	521	1.45
7512	1200	418	0.73	440	0.88	461	1.03	481	1.17	501	1.33	521	1.49	540	1.64
8138	1300	447	0.88	466	1.03	485	1.19	505	1.35	524	1.52	542	1.68	560	1.85
8764	1400	475	1.04	494	1.21	512	1.38	529	1.55	547	1.72	565	1.90	582	2.08
9390	1500	504	1.23	521	1.40	538	1.59	555	1.77	572	1.96	588	2.14	604	2.33
10016	1600	533	1.44	549	1.63	565	1.82	582	2.02	597	2.21	612	2.40	628	2.61
10642	1700	562	1.67	578	1.88	593	2.08	608	2.28	623	2.49	637	2.69	652	2.90
11268	1800	592	1.94	606	2.14	620	2.35	635	2.58	649	2.79	664	3.02	678	3.25
11894	1900	621	2.22	635	2.44	649	2.67	663	2.91	676	3.13	689	3.35	703	3.59
12520	2000	651	2.54	664	2.77	678	3.02	691	3.26	703	3.49	716	3.73	729	3.98
13772	2200	711	3.27	723	3.53	736	3.81	747	4.05	759	4.32	771	4.59	782	4.84
15024	2400	771	4.13	782	4.41	794	4.72	804	4.98	815	5.26	826	5.55	837	5.85
16276	2600	832	5.16	843	5.47	853	5.78	863	6.08	873	6.39	884	6.72	893	7.00
17528	2800	893	6.34	903	6.67	912	6.99	922	7.33	931	7.65	941	8.00	950	8.33
18780	3000	955	7.72	964	8.07	972	8.39	981	8.75	990	9.11	999	9.47	1008	9.83
20032	3200	1016	9.24	1024	9.61	1033	10.00	1041	10.40	1049	10.70	1057	11.10	1066	11.50
21284	3400	1077	11.00	1085	11.40	1093	11.80	1101	12.20	1109	12.60	1117	13.00	1125	13.40
22536	3600	1139	12.90	1146	13.30	1154	13.80	1162	14.20	1169	14.60	1176	15.10	1184	15.50
23788	3800	1200	15.10	1208	15.60	1215	16.00	1222	16.50	1229	16.90	1236	17.40	1243	17.80
25040	4000	1263	17.60	1269	18.00	1276	18.50	1283	19.00	1289	19.40	1296	19.90	1303	20.40
26292	4200	1324	20.20	1331	20.70	1337	21.20	1343	21.70	1350	22.20	1357	22.70	1363	23.20
27544	4400	1386	23.10	1393	23.70	1398	24.10	1404	24.60	1411	25.20	1417	25.70	1423	26.20
28796	4600	1448	26.30	1454	26.90	1460	27.40	1466	28.00	1472	28.50	1478	29.10	1483	29.60
30048	4800	1510	29.80	1516	30.40	1522	31.00	1527	31.50	1533	32.10	1538	32.60	1544	33.20
31300	5000	1572	33.60	1577	34.20	1583	34.80	1588	35.40	1594	36.00	1599	36.50	1605	37.20
32552	5200	1634	37.70	1640	38.40	1645	39.00	1650	39.60	1655	40.20	1660	40.80	1665	41.40

VOL CFM	OUT VEL	2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7512	1200	685	3.01	761	4.06	832	5.25	897	6.56	958	7.98	1017	9.55	1073	11.20	1126	13.00	1178	15.00	1239	17.90
8138	1300	697	3.38	773	4.40	843	5.66	908	7.02	969	8.51	1027	10.10	1084	11.80	1137	13.80	1192	15.60	1255	19.80
8764	1400	711	3.58	786	4.76	857	5.85	924	7.31	984	8.81	1041	10.80	1098	12.50	1151	14.60	1207	16.60	1269	21.80
9390	1500	727	3.91	801	5.15	865	6.07	930	7.64	989	9.24	1046	11.00	1103	12.90	1156	15.10	1212	17.90	1273	24.10
10016	1600	745	4.27	815	5.58	879	6.54	943	8.15	1001	9.81	1058	11.60	1115	13.60	1168	15.80	1225	18.20	1286	26.40
10642	1700	765	5.08	835	6.02	895	7.01	954	8.03	1011	9.07	1067	10.80	1124	12.80	1177	14.90	1234	16.90	1294	29.10
11268	1800	785	5.50	854	6.50	912	7.52	969	8.58	1025	9.64	1081	11.50	1137	13.50	1190	15.60	1247	17.90	1306	31.90
11894	1900	805	5.50	854	6.50	912	7.52	969	8.58	1025	9.64	1081	11.50	1137	13.50	1190	15.60	1247	17.90	1306	31.90
12520	2000	827	5.98	874	7.01	920	8.07	966	9.18	1010	10.30	1053	11.40	1096	12.60	1137	13.80	1178	15.00	1239	17.90
13772	2200	873	7.02	917	8.14	950	9.29	982	10.50	1014	11.80	1045	13.10	1076	14.40	1106	15.80	1137	17.20	1168	19.80
15024	2400	922	8.22	962	9.40	1002	10.60	1041	11.90	1080	13.10	1118	14.40	1156	16.20	1192	17.60	1227	19.00	1261	21.80
16276	2600	972	9.54	1010	10.80	1047	12.10	1085	13.50	1121	14.80	1156	16.20	1192	17.60	1227	19.00	1261	21.80	1295	24.10
17528	2800	1024	11.00	1060	12.40	1095	13.80	1129	15.20	1164	16.70	1198	18.10	1231	19.60	1264	21.00	1297	22.60	1329	24.10
18780	3000	1077	12.70	1110	14.20	1144	15.70	1176	17.10	1209	18.70	1241	20.20	1273	21.80	1304	23.30	1335	24.90	1365	26.40
20032	3200	1131	14.60	1163	16.10	1195	17.70	1225	19.30	1256	20.90	1286	22.50	1317	24.10	1346	25.70	1376	27.40	1405	29.10
21284	3400	1186	16.60	1217	18.20	1246	19.90	1276	21.60	1305	23.30	1334	25.00	1363	26.70	1391	28.40	1419	30.20	1447	31.90
22536	3600	1242	18.90	1271	20.70	1299	22.40	1327	24.10	1355	25.90	1382	27.70	1410	29.50	1437	31.30	1464	33.10	1491	35.00
23788	3800	1299	21.40	1326	23.30	1353	25.10	1379	26.90	1406	28.80	1433	30.70	1459	32.60	1484	34.40	1510	36.30	1536	38.30
25040	4000	1356	24.20	1382	26.10	1407	28.00	1433	29.90	1459	31.90	1484	33.90	1508	35.80	1533	37.80	1558	39.80	1583	41.80
26292	4200	1413	27.10	1438	29.10	1463	31.20	1487	33.20	1511	35.20	1536	37.30	1560	39.40	1583	41.40	1607	43.50	1631	45.60
27544	4400	1471	30.40	1495	32.50	1519	34.60	1542	36.70	1566	38.90	1589	41.00	1612	43.10	1635	45.30	1657	47.40	1680	49.60
28796	4600	1530	34.00	1552	36.10	1575	38.30	1598	40.50	1620	42.70	1643	45.00	1665	47.20	1687	49.50	1709	51.70	1730	53.90
30048	4800	1589	37.70	1610	39.80	1632	42.30	1654	44.60	1675	46.90	1697	49.20	1718	51.50	1739	53.90	1761	56.30	1781	58.50
31300	5000	1647	41.80	1668	44.20	1690	46.70	1710	49.00	1731	51.40	1752	53.80	1772	56.20	1793	58.70	1813	61.00	1833	63.50
32552	5200	1706	46.20	1727	48.80	1747	51.20	1767	53.70	1787	56.10	1807	58.60	1827	61.20	1847	63.70	1866	66.20	1886	68.70

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13772	2200	1277	19.30																		
15024	2400	1301	21.20	1371	24.10	1438	27.00														
16276	2600	1329	23.30	1395	26.30	1460	29.40	1523	32.50												
17528	2800	1361	25.60	1424	28.70	1486	32.00	1546	35.20	1605	38.60	1664	42.00								
18780	3000	1396	28.10	1456	31.40	1515	34.70	1572	38.10	1629	41.60	1685	45.20	1740	48.80	1795	52.50				
20032	3200	1434	30.80	1491	34.20	1547	37.70	1603	41.30	1657	44.90	1711	48.60	1764	52.40	1816	56.20	1867	60.00	1918	64.00
21284	3400	1475	33.70	1529	37.30	1583	40.90	1636	44.70	1688	48.40	1739	52.20	1790	56.10	1841	60.20	1890	64.10	1939	68.20
22536	3600	1517	36.80	1569	40.60	1621	44.40	1671	48.20	1722	52.20	1771	56.10	1820	60.20	1868	64.30	1916	68.40	1963	72.60
23788	3800	1561	40.20	1611	44.10	1661	48.10	1709	52.10	1758	56.20	1805	60.30	1852	64.40	1899	68.70	1945	73.00	1990	77.30
25040	4000	1607	43.80	1655	47.90	1703	52.10	1749	56.20	1796	60.40	1841	64.60	1887	69.00	1932	73.40	1976	77.80	2020	82.30
26292	4200	1654	47.40	1700	51.90	1746	56.20	1791	60.50	1836	65.00	1880	69.40	1924	73.90	1967	78.40	2010	83.00	2052	87.60
27544	4400	1703	51.90	1747	56.20	1791	60.70	1835	65.20	1877	69.70	1920	74.30	1962	78.90	2004	83.60	2045	88.30	2086	93.10
28796	4600	1752	56.30	1794	60.70	1837	65.40	1879	70.10	1921	74.90	1962	79.60	2003	84.40	2043	89.20	2083	94.10	2123	99.00
30048	4800	1802	60.90	1844	65.70	1885	70.50	1925	75.30	1965	80.20	2005	85.10	2045	90.10	2084	95.10	2122	100.00	2161	105.00
31300	5000	1854	66.00	1893	70.80	1933	75.80	1972	80.80	2011	85.90	2050	91.00	2088	96.10	2126	101.00	2163	106.00		
32552	5200	1906	71.30	1944	76.40	1982	81.50	2020	86.60	2058	91.90	2095	97.10	2132	102.00	2169	108.00				

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3037	-20° to 150°F	-29° to 66°C
CLASS I	1049	
CLASS II	1368	
CLASS III	1724	
CLASS IV	1990	

SINGLE WIDTH  
SINGLE INLET

## SIZE 3037

Wheel Diameter	36.50 inches	927 mm
Wheel Circumference	9.56 feet	2.914 m
Inlet Diameter/Area	39.0 inches dia./8.30 sq. ft.	991 mm/7711 m <sup>2</sup>
Outlet Size/Area	38.29 x 28.73 inches I.D./7.64 sq. ft.	973 x 730 mm/7098 m <sup>2</sup>
Tip Speed	9.56 x RPM ft./minute	2.914 x RPM m/minute
Maximum BHP	17.36 x (RPM ÷ 1000) <sup>3</sup> BHP	12.95 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6104	800	283	0.40	310	0.52	336	0.65	362	0.79	385	0.92	410	1.07	433	1.22	456	1.38
6867	900	305	0.49	330	0.63	354	0.77	377	0.92	399	1.06	421	1.22	443	1.38	464	1.54
7630	1000	328	0.60	351	0.75	373	0.91	395	1.07	415	1.23	436	1.40	456	1.57	475	1.74
8393	1100	352	0.73	373	0.90	393	1.06	413	1.23	433	1.41	451	1.58	471	1.77	488	1.95
9156	1200	377	0.89	397	1.07	415	1.24	434	1.43	451	1.60	470	1.81	488	2.00	505	2.19
9919	1300	403	1.07	421	1.26	438	1.45	455	1.64	472	1.84	489	2.04	505	2.24	521	2.39
10682	1400	428	1.26	444	1.46	461	1.67	478	1.89	494	2.10	509	2.31	524	2.52	539	2.66
11445	1500	454	1.49	470	1.71	486	1.94	501	2.16	515	2.37	531	2.61	545	2.83	559	2.97
12208	1600	480	1.74	495	1.97	509	2.20	524	2.44	539	2.69	553	2.93	566	3.16	580	3.30
12971	1700	507	2.03	521	2.28	535	2.53	548	2.77	562	3.03	575	3.28	588	3.53	601	3.66
13734	1800	533	2.34	547	2.61	560	2.87	572	3.12	586	3.41	598	3.66	610	3.92	622	4.05
14497	1900	560	2.69	572	2.96	585	3.24	597	3.51	610	3.81	622	4.08	634	4.37	645	4.52
15260	2000	586	3.06	599	3.37	610	3.64	622	3.94	634	4.24	646	4.54	657	4.83	668	5.03
16786	2200	641	3.97	652	4.29	663	4.61	673	4.91	684	5.23	695	5.57	706	5.90	717	6.24
18312	2400	695	5.01	705	5.35	715	5.70	725	6.04	735	6.40	745	6.75	755	7.11	765	7.47
19838	2600	750	6.25	760	6.65	769	7.01	778	7.38	787	7.75	796	8.12	805	8.50	814	8.87
21364	2800	805	7.68	813	8.06	823	8.52	830	8.86	839	9.28	848	9.70	856	10.10	864	10.50
22890	3000	860	9.32	868	9.75	876	10.20	884	10.60	892	11.00	900	11.50	908	11.90	916	12.30
24416	3200	915	11.20	923	11.70	931	12.10	938	12.60	946	13.10	953	13.50	961	14.00	968	14.50
25942	3400	970	13.30	978	13.80	985	14.30	992	14.80	999	15.20	1006	15.70	1014	16.30	1021	16.80
27468	3600	1026	15.70	1033	16.20	1039	16.70	1047	17.20	1053	17.70	1060	18.30	1067	18.80	1074	19.30
28994	3800	1082	18.30	1088	18.80	1094	19.40	1101	19.90	1107	20.50	1114	21.00	1120	21.60	1127	22.10
30520	4000	1137	21.20	1144	21.80	1150	22.40	1156	23.00	1161	23.50	1168	24.10	1174	24.70	1180	25.30
32046	4200	1193	24.50	1199	25.10	1205	25.70	1211	26.30	1216	26.90	1222	27.50	1228	28.10	1233	28.70
33572	4400	1249	28.00	1254	28.60	1260	29.30	1266	29.90	1271	30.50	1277	31.20	1282	31.80	1289	32.40
35098	4600	1305	31.90	1310	32.60	1315	33.20	1321	33.90	1326	34.50	1331	35.20	1337	35.90	1342	36.60
36624	4800	1360	36.10	1366	36.80	1370	37.40	1376	38.20	1381	38.90	1386	39.50	1391	40.20	1401	41.00
38150	5000	1416	40.70	1421	41.40	1426	42.10	1431	42.80	1436	43.60	1441	44.30	1445	44.90	1455	46.40
39676	5200	1472	45.60	1477	46.40	1482	47.20	1486	47.90	1491	48.60	1496	49.40	1500	50.10	1510	51.60

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9156	1200	619	3.66																		
9919	1300	630	4.01	688	4.95																
10682	1400	643	4.38	698	5.36	752	6.41														
11445	1500	657	4.77	710	5.80	761	6.88														
12208	1600	673	5.20	723	6.27	772	7.38	820	8.55												
12971	1700	690	5.67	738	6.78	785	7.94	831	9.14	876	10.40										
13734	1800	708	6.17	754	7.33	799	8.53	843	9.77	886	11.00	929	12.40	970	13.70						
14497	1900	727	6.71	771	7.91	815	9.18	857	10.40	898	11.70	939	13.10	979	14.50	1018	15.90				
15260	2000	746	7.26	789	8.53	831	9.83	872	11.20	912	12.50	951	13.90	990	15.40	1028	16.80	1065	18.30		
16786	2200	787	8.51	827	9.89	866	11.30	904	12.70	942	14.20	978	15.60	1014	17.10	1050	18.70	1085	20.30	1120	21.90
18312	2400	831	10.00	868	11.40	904	12.90	940	14.40	975	16.00	1010	17.60	1043	19.10	1077	20.80	1110	22.40	1143	24.10
19838	2600	876	11.60	911	13.20	945	14.80	978	16.40	1012	18.00	1044	19.70	1076	21.40	1108	23.10	1139	24.80	1169	26.60
21364	2800	923	13.40	955	15.10	988	16.80	1019	18.50	1050	20.20	1081	22.00	1111	23.80	1141	25.60	1171	27.50	1200	29.30
22890	3000	971	15.40	1002	17.20	1031	19.00	1061	20.80	1091	22.70	1120	24.60	1149	26.50	1177	28.40	1205	30.30	1233	32.20
24416	3200	1020	17.70	1049	19.60	1077	21.50	1105	23.40	1133	25.40	1161	27.40	1188	29.30	1215	31.30	1242	33.40	1268	35.40
25942	3400	1069	20.20	1096	22.20	1124	24.20	1150	26.20	1177	28.30	1203	30.40	1229	32.40	1255	34.60	1280	36.70	1305	38.80
27468	3600	1120	23.00	1146	25.10	1171	27.20	1197	29.30	1222	31.50	1247	33.70	1272	35.90	1296	38.00	1321	40.30	1345	42.50
28994	3800	1170	25.90	1195	28.20	1220	30.50	1244	32.70	1268	34.90	1292	37.20	1315	39.50	1339	41.80	1362	44.10	1386	46.60
30520	4000	1222	29.30	1246	31.70	1269	34.00	1292	36.30	1315	38.70	1338	41.10	1360	43.40	1383	45.90	1406	48.40	1427	50.70
32046	4200	1274	32.90	1296	35.30	1319	37.90	1341	40.30	1363	42.80	1385	45.30	1407	47.80	1428	50.30	1449	52.80	1471	55.40
33572	4400	1326	36.90	1347	39.40	1369	42.00	1390	44.50	1412	47.20	1433	49.80	1453	52.30	1474	55.00	1494	57.60	1515	60.30
35098	4600	1378	41.10	1399	43.80	1420	46.50	1440	49.10	1461	51.90	1481	54.60	1501	57.30	1521	60.10	1541	62.80	1560	65.50
36624	4800	1431	45.70	1451	48.50	1471	51.30	1491	54.10	1510	56.90	1530	59.80	1549	62.60	1568	65.40	1587	68.20	1606	71.10
38150	5000	1484	50.70	1504	53.70	1523	56.60	1542	59.50	1560	62.30	1579	65.30	1598	68.20	1616	71.10	1635	74.20	1653	77.10
39676	5200	1538	56.10	1556	59.10	1575	62.10	1593	65.10	1611	68.10	1629	71.20	1647	74.20	1665	77.30	1683	80.40	1701	83.50

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16786	2200	1154	23.50																		
18312	2400	1175	25.80	1238	29.30																
19838	2600	1200	28.40	1260	32.00	1319	35.80	1376	39.60												
21364	2800	1228	31.10	1286	35.00	1342	38.90	1396	42.90	1451	47.10	1503	51.20								
22890	3000	1260	34.20	1315	38.20	1368	42.30	1420	46.40	1472	50.70	1522	55.00	1573	59.50						
24416	3200	1295	37.50	1347	41.70	1397	45.90	1447	50.20	1496	54.60	1545	59.20	1593	63.80	1640	68.40	1687	73.20		
25942	3400	1331	41.00	1380	45.30	1429	49.80	1477	54.30	1524	58.90	1571	63.60	1617	68.40	1662	73.20	1707	78.10	1752	83.10
27468	3600	1369	44.80	1416	49.30	1463	54.00	1509	58.70	1554	63.50	1599	68.30	1644	73.30	1687	78.20	1731	83.40	1773	88.50
28994	3800	1409	48.90	1454	53.60	1499	58.50	1543	63.40	1587	68.40	1630	73.40	1672	78.40	1715	83.70	1756	88.90	1798	94.30
30520	4000	1450	53.30	1493	58.20	1536	63.20	1579	68.40	1621	73.50	1662	78.70	1703	83.90	1744	89.30	1784	94.70	1824	100.00
32046	4200	1492	57.90	1534	63.10	1575	68.30	1616	73.60	1657	79.00	1697	84.40	1737	90.00	1776	95.50	1815	101.00	1853	107.00
33572	4400	1536	63.00	1576	68.40	1616	73.80	1655	79.20	1694	84.80	1733	90.40	1771	96.00	1809	102.00	1847	108.00	1884	113.00
35098	4600	1580	68.30	1619	73.90	1657	79.50	1695	85.20	1733	91.00	1770	96.70	1808	103.00	1844	109.00	1881	115.00	1916	120.00
36624	4800	1625	74.00	1663	79.60	1701	85.70	1737	91.80	1773	97.50	1809	103.00	1845	110.00	1881	116.00	1916	122.00	1951	128.00
38150	5000	1672	80.20	1707	86.00	1744	92.20	1779	98.20	1814	104.00	1849	111.00	1884	117.00	1918	123.00	1953	130.00	1986	136.00
39676	5200	1718	86.50	1753	92.70	1788	99.00	1823	105.00	1857	112.00	1891	118.00	1924	125.00	1957	131.00				

# SILENTVANE™

## SIZE 3040

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	40.25 inches	1022 mm
Wheel Circumference	10.54 feet	3.213 m
Inlet Diameter/Area	43.5 inches sq./10.31 sq. ft.	1105 mm/9578 m <sup>2</sup>
Outlet Size/Area	42.48 x 31.79 inches I.D./9.38 sq. ft.	1079 x 807 mm/8714 m <sup>2</sup>
Tip Speed	10.54 x RPM ft./minute	3.211 x RPM m/minute
Maximum BHP	28.45 x (RPM ÷ 1000) <sup>3</sup> BHP	21.22 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3040	-20° to 150°F	-29° to 66°C
CLASS I	956	
CLASS II	1247	
CLASS III	1572	
CLASS IV	1800	

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7480	800	258	0.49	282	0.64	306	0.80	329	0.97	351	1.13	372	1.31	393	1.49	414	1.67	435	1.85	456	2.03	477	2.21	498	2.39	519	2.57	540	2.75	561	2.93
8415	900	278	0.60	300	0.77	322	0.95	342	1.12	363	1.31	383	1.50	402	1.68	422	1.87	441	2.05	461	2.24	480	2.42	499	2.60	518	2.78	537	2.96	556	3.14
9350	1000	299	0.74	320	0.93	340	1.12	359	1.31	378	1.51	396	1.71	414	1.92	432	2.12	450	2.32	468	2.52	486	2.72	504	2.92	522	3.12	540	3.32	558	3.52
10285	1100	322	0.91	340	1.10	359	1.32	377	1.53	394	1.73	411	1.95	428	2.17	445	2.39	462	2.61	479	2.83	496	3.05	513	3.27	530	3.49	547	3.71	564	3.93
11220	1200	344	1.10	362	1.32	378	1.53	395	1.76	412	1.99	428	2.23	443	2.45	459	2.68	474	2.91	489	3.14	504	3.37	519	3.60	534	3.83	549	4.06	564	4.29
12155	1300	367	1.31	383	1.54	400	1.79	414	2.01	430	2.27	445	2.51	460	2.77	475	3.01	489	3.25	504	3.49	519	3.73	534	3.97	549	4.21	564	4.45	579	4.69
13090	1400	390	1.55	408	1.81	423	2.05	438	2.32	452	2.57	466	2.85	480	3.11	494	3.36	508	3.60	522	3.85	536	4.09	550	4.33	564	4.57	578	4.81	592	5.05
14025	1500	414	1.83	428	2.10	443	2.39	456	2.65	470	2.93	484	3.22	497	3.50	511	3.78	524	4.06	537	4.34	550	4.62	563	4.90	576	5.18	589	5.46	602	5.74
14960	1600	438	2.15	452	2.45	465	2.73	478	3.02	491	3.32	503	3.60	516	3.90	528	4.18	540	4.46	552	4.74	564	5.02	576	5.30	588	5.58	600	5.86	612	6.14
15895	1700	462	2.50	475	2.81	488	3.13	500	3.42	512	3.73	524	4.04	536	4.36	548	4.67	560	4.98	572	5.29	584	5.60	596	5.91	608	6.22	620	6.53	632	6.84
16830	1800	487	2.91	499	3.23	510	3.53	522	3.86	534	4.20	546	4.51	557	4.86	569	5.17	580	5.48	592	5.79	604	6.10	616	6.41	628	6.72	640	7.03	652	7.34
17765	1900	511	3.34	523	3.68	534	4.02	545	4.35	556	4.70	567	5.04	578	5.39	589	5.73	600	6.07	611	6.41	622	6.75	633	7.09	644	7.43	655	7.77	666	8.11
18700	2000	536	3.82	547	4.18	557	4.52	568	4.89	578	5.23	589	5.61	599	5.96	610	6.30	621	6.64	632	6.98	643	7.32	654	7.66	665	8.00	676	8.34	687	8.68
20570	2200	585	4.91	595	5.31	605	5.70	615	6.10	624	6.47	634	6.88	644	7.29	654	7.69	664	8.09	674	8.49	684	8.89	694	9.29	704	9.69	714	10.09	724	10.49
22440	2400	635	6.23	644	6.66	653	7.08	662	7.50	671	7.92	680	8.36	689	8.80	698	9.24	707	9.68	716	10.12	725	10.56	734	11.00	743	11.44	752	11.88	761	12.32
24310	2600	685	7.77	694	8.25	702	8.69	710	9.14	718	9.58	727	10.01	735	10.50	743	10.99	751	11.48	759	11.97	767	12.46	775	12.95	783	13.44	791	13.93	800	14.42
26180	2800	735	9.53	743	10.00	751	10.50	758	11.00	766	11.50	774	12.00	782	12.50	790	13.00	797	13.50	805	14.00	812	14.50	820	15.00	827	15.50	835	16.00	842	16.50
28050	3000	785	11.60	793	12.10	800	12.60	808	13.20	815	13.70	822	14.20	829	14.80	836	15.30	843	15.80	850	16.30	857	16.80	864	17.30	871	17.80	878	18.30	885	18.80
29920	3200	836	13.90	843	14.50	850	15.00	857	15.60	863	16.10	870	16.70	877	17.30	884	17.80	891	18.30	898	18.80	904	19.30	911	19.80	918	20.30	925	20.80	932	21.30
31790	3400	887	16.60	893	17.10	900	17.80	906	18.30	913	19.00	919	19.50	925	20.10	932	20.60	938	21.10	944	21.60	950	22.10	956	22.60	962	23.10	968	23.60	974	24.10
33660	3600	938	19.50	944	20.10	950	20.80	956	21.40	962	22.00	968	22.60	974	23.30	980	23.80	986	24.50	992	25.00	998	25.50	1004	26.00	1010	26.50	1016	27.00	1022	27.50
35530	3800	988	22.70	994	23.40	1000	24.10	1006	24.80	1012	25.50	1017	26.10	1023	26.80	1028	27.50	1034	28.10	1039	28.80	1045	29.50	1050	30.20	1056	30.90	1061	31.60	1067	32.30
37400	4000	1039	26.40	1045	27.10	1050	27.80	1055	28.40	1061	29.20	1067	30.00	1072	30.80	1078	31.60	1083	32.40	1089	33.20	1094	34.00	1100	34.80	1105	35.60	1111	36.40	1116	37.20
39270	4200	1090	30.40	1095	31.10	1100	31.80	1106	32.60	1111	33.40	1116	34.10	1121	34.80	1127	35.60	1132	36.30	1137	37.10	1142	37.80	1148	38.60	1153	39.40	1158	40.20	1163	41.00
41140	4400	1141	34.80	1146	35.60	1151	36.40	1156	37.10	1161	37.90	1166	38.70	1171	39.50	1177	40.30	1181	41.00	1187	41.80	1191	42.60	1197	43.40	1201	44.20	1207	45.00	1211	45.80
43010	4600	1192	39.70	1197	40.50	1202	41.30	1206	42.00	1211	42.90	1216	43.70	1221	44.50	1226	45.30	1230	46.10	1235	46.90	1240	47.70	1244	48.50	1249	49.30	1253	50.10	1258	50.90
44880	4800	1243	44.90	1247	45.70	1252	46.60	1257	47.50	1261	48.20	1266	49.10	1271	50.00	1275	50.90	1280	51.70	1284	52.60	1289	53.40	1293	54.30	1298	55.10	1302	56.00	1307	56.80
46750	5000	1294	50.60	1298	51.40	1303	52.40	1307	53.20	1312	54.10	1316	55.00	1321	55.90	1325	56.80	1330	57.60	1334	58.50	1338	59.40	1343	60.30	1347	61.20	1351	62.10	1356	63.00
48620	5200	1345	56.80	1349	57.60	1354	58.60	1358	59.50	1362	60.40	1366	61.30	1370	62.20	1375	63.10	1379	64.00	1383	64.90	1387	65.80	1391	66.70	1396	67.60	1400	68.50	1405	69.40

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11220	1200	562	4.49																		
12155	1300	572	4.90	624	6.05																
13090	1400	584	5.36	634	6.57	682	7.83														
14025	1500	598	5.87	645	7.12	691	8.42	736	9.80												
14960	1600	612	6.39	658	7.72	702	9.08	745	10.50	787	12.00										
15895	1700	628	6.98	671	8.33	713	9.73	755	11.20	795	12.70	835	14.30								
16830	1800	644	7.57	686	9.01	727	10.50	766	12.00	805	13.50	843	15.20	880	16.80						
17765	1900	662	8.26	702	9.74	741	11.30	779	12.80	817	14.50	853	16.10	889	17.80	924	19.50				
18700	2000	680	8.97	718	10.50	756	12.10	793	13.70	829	15.40	864	17.10	899	18.80	933	20.60	967	22.40		
20570	2200	718	10.50	754	12.20	788	13.90	823	15.70	856	17.40	890	19.20	922	21.00	954	22.90	986	24.90		
22400	2400	757	12.30	791	14.10	823	15.90	856	17.80	887	19.70	918	21.60	949	23.50	979	25.50	1009	27.50	1039	29.60
24310	2600	799	14.30	830	16.20	860	18.10	891	20.20	920	22.10	950	24.20	979	26.30	1007	28.30	1036	30.50	1063	32.60
26180	2800	842	16.60	871	18.60	900	20.70	928	22.80	956	24.90	984	27.10	1011	29.30	1038	31.50	1065	33.70	1091	36.00
28050	3000	886	19.10	913	21.30	940	23.40	967	25.70	994	28.00	1020	30.30	1046	32.60	1071	34.90	1097	37.30	1121	39.60
29920	3200	930	21.90	956	24.20	982	26.50	1007	28.90	1033	31.30	1057	33.70	1082	36.10	1106	38.50	1130	41.00	1154	43.50
31790	3400	976	25.00	1000	27.40	1025	29.90	1049	32.40	1073	34.90	1096	37.40	1120	40.00	1143	42.60	1166	45.20	1189	47.80
33660	3600	1022	28.40	1045	31.00	1068	33.60	1091	36.20	1114	38.90	1136	41.50	1159	44.20	1181	46.90	1203	49.60	1225	52.40
35530	3800	1068	32.10	1091	34.90	1112	37.60	1135	40.40	1156	43.10	1178	46.00	1199	48.80	1220	51.60	1241	54.40	1262	57.20
37400	4000	1115	36.00	1136	38.80	1157	41.30	1178	44.00	1199	46.80	1220	50.80	1240	53.60	1261	56.70	1280	59.50	1301	62.30
39270	4200	1163	40.10	1183	43.80	1202	46.80	1223	49.80	1243	52.80	1263	55.90	1282	58.90	1302	62.10	1321	65.20	1340	68.20
41140	4400	1210	45.60	1230	48.80	1249	51.90	1268	55.10	1288	58.40	1306	61.40	1325	64.60	1344	67.90	1363	71.20	1381	74.40
43010	4600	1259	51.00	1277	54.20	1296	57.60	1314	60.80	1333	64.20	1351	67.50	1369	70.80	1387	74.20	1405	77.60	1422	80.80
44880	4800	1307	56.70	1326	60.20	1345	63.20	1363	66.40	1382	69.70	1400	72.90	1418	76.10	1436	79.40	1454	82.70	1472	85.90
46750	5000	1355	62.90	1373	66.50	1390	70.00	1407	73.60	1424	77.20	1441	80.80	1457	84.20	1474	87.90	1491	91.60	1507	95.10
48620	5200	1404	69.50	1421	73.30	1437	76.90	1454	80.70	1470	84.30	1487	88.20	1503	91.90	1519	95.60	1535	99.30	1551	103.00

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3045	-20° to 150°F	-29° to 66°C
CLASS I	864	
CLASS II	1127	
CLASS III	1420	
CLASS IV	1630	

SINGLE WIDTH  
SINGLE INLET

## SIZE 3045

Wheel Diameter	44.50 inches	1130 mm
Wheel Circumference	11.65 feet	3.551 m
Inlet Diameter/Area	47.75 inches sq./12.42 sq. ft.	1213 mm/1.154 m <sup>2</sup>
Outlet Size/Area	46.98 x 35.04 inches I.D./11.43 sq. ft.	1193 x 890 mm/1.062 m <sup>2</sup>
Tip Speed	11.65 x RPM ft./minute	3.551 x RPM m/minute
Maximum BHP	47.21 x (RPM ÷ 1000) <sup>3</sup> BHP	35.21 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1 1/8" SP		1 1/4" SP		1 3/8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9128	800	233	0.59	255	0.78	277	0.98	297	1.17	317	1.38	336	1.59	355	1.81
10269	1200	331	1.59	347	1.90	361	2.18	375	2.47	388	2.75	402	3.06	416	3.38
11410	1000	271	0.91	288	1.12	307	1.36	324	1.59	341	1.83	358	2.09	374	2.33
12551	1100	291	1.11	308	1.36	324	1.60	340	1.85	356	2.11	372	2.39	387	2.65
13692	1200	311	1.34	326	1.59	342	1.87	357	2.14	372	2.42	386	2.70	401	3.00
14833	1300	331	1.59	347	1.90	361	2.18	375	2.47	388	2.75	402	3.06	416	3.38
15974	1400	353	1.90	367	2.22	380	2.52	393	2.82	406	3.14	419	3.46	432	3.80
17115	1500	374	2.24	387	2.57	400	2.90	412	3.23	424	3.55	437	3.92	449	4.26
18256	1600	396	2.63	407	2.95	420	3.33	432	3.69	443	4.02	455	4.40	466	4.75
19397	1700	418	3.06	429	3.42	440	3.78	452	4.18	463	4.56	474	4.94	485	5.33
20538	1800	440	3.54	450	3.91	461	4.31	472	4.71	482	5.10	493	5.52	503	5.91
21679	1900	462	4.07	472	4.48	482	4.88	492	5.29	503	5.74	512	6.13	522	6.56
22820	2000	484	4.65	494	5.09	504	5.53	513	5.94	523	6.40	532	6.82	542	7.29
25102	2200	529	6.01	537	6.44	547	6.96	555	7.41	564	7.90	573	8.39	581	8.85
27384	2400	574	7.61	581	8.06	590	8.62	598	9.14	606	9.68	614	10.20	622	10.70
29666	2600	619	9.47	626	10.00	634	10.60	641	11.10	649	11.70	656	12.20	664	12.80
31948	2800	664	11.60	671	12.20	678	12.80	685	13.40	692	14.00	699	14.60	706	15.20
34230	3000	710	14.10	716	14.70	723	15.40	729	16.00	736	16.70	742	17.30	749	18.00
36512	3200	755	16.90	761	17.60	768	18.30	774	19.00	780	19.70	786	20.40	792	21.00
38794	3400	801	20.10	807	20.90	812	21.50	818	22.30	824	23.00	830	23.80	836	24.50
41076	3600	847	23.70	852	24.40	858	25.30	863	26.00	869	26.80	874	27.50	880	28.40
43358	3800	893	27.90	898	28.50	903	29.30	908	30.10	913	30.90	919	31.80	924	32.60
45640	4000	938	32.10	943	32.90	948	33.80	953	34.70	958	35.50	963	36.40	968	37.20
47922	4200	984	37.00	989	37.90	994	38.80	999	39.70	1003	40.60	1008	41.50	1013	42.40
50204	4400	1030	42.30	1035	43.30	1039	44.20	1044	45.20	1049	46.20	1053	47.10	1057	47.90
52486	4600	1076	48.20	1081	49.20	1085	50.20	1089	51.10	1094	52.20	1098	53.10	1102	54.10
54768	4800	1123	54.70	1127	55.70	1131	56.70	1135	57.70	1139	58.70	1143	59.70	1148	60.90
57050	5000	1169	61.60	1173	62.70	1177	63.80	1181	64.80	1184	65.70	1189	67.00	1193	68.10
59332	5200	1215	69.10	1219	70.30	1222	71.20	1226	72.40	1230	73.50	1234	74.60	1238	75.80

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13692	1200	508	5.47	517	5.96	526	6.45	535	6.94	544	7.43	553	7.92	562	8.41	571	8.90	580	9.39	589	9.88
14833	1300	517	5.96	526	6.45	535	6.94	544	7.43	553	7.92	562	8.41	571	8.90	580	9.39	589	9.88	598	10.37
15974	1400	526	6.45	535	6.94	544	7.43	553	7.92	562	8.41	571	8.90	580	9.39	589	9.88	598	10.37	607	10.86
17115	1500	540	7.14	548	8.01	556	8.88	564	9.75	572	10.62	580	11.49	588	12.36	596	13.23	604	14.10	612	14.97
18256	1600	553	7.79	561	8.66	569	9.53	577	10.40	585	11.27	593	12.14	601	13.01	609	13.88	617	14.75	625	15.62
19397	1700	567	8.48	575	9.35	583	10.22	591	11.09	599	11.96	607	12.83	615	13.70	623	14.57	631	15.44	639	16.31
20538	1800	582	9.23	590	10.10	598	10.97	606	11.84	614	12.71	622	13.58	630	14.45	638	15.32	646	16.19	654	17.06
21679	1900	598	10.10	606	11.00	614	11.90	622	12.80	630	13.70	638	14.60	646	15.50	654	16.40	662	17.30	670	18.20
22820	2000	614	10.90	622	11.80	630	12.70	638	13.60	646	14.50	654	15.40	662	16.30	670	17.20	678	18.10	686	19.00
25102	2200	648	12.80	656	13.70	664	14.60	672	15.50	680	16.40	688	17.30	696	18.20	704	19.10	712	20.00	720	20.90
27384	2400	685	15.00	693	16.00	701	17.00	709	18.00	717	19.00	725	20.00	733	21.00	741	22.00	749	23.00	757	24.00
29666	2600	722	17.40	730	18.50	738	19.60	746	20.70	754	21.80	762	22.90	770	24.00	778	25.10	786	26.20	794	27.30
31948	2800	760	20.10	768	21.20	776	22.30	784	23.40	792	24.50	800	25.60	808	26.70	816	27.80	824	28.90	832	30.00
34230	3000	800	23.20	808	24.30	816	25.40	824	26.50	832	27.60	840	28.70	848	29.80	856	30.90	864	32.00	872	33.10
36512	3200	840	26.60	848	27.70	856	28.80	864	29.90	872	31.00	880	32.10	888	33.20	896	34.30	904	35.40	912	36.50
38794	3400	881	30.40	889	31.50	897	32.60	905	33.70	913	34.80	921	35.90	929	37.00	937	38.10	945	39.20	953	40.30
41076	3600	923	34.60	931	35.70	939	36.80	947	37.90	955	39.00	963	40.10	971	41.20	979	42.30	987	43.40	995	44.50
43358	3800	965	39.20	973	40.30	981	41.40	989	42.50	997	43.60	1005	44.70	1013	45.80	1021	46.90	1029	48.00	1037	49.10
45640	4000	1007	44.10	1015	45.20	1023	46.30	1031	47.40	1039	48.50	1047	49.60	1055	50.70	1063	51.80	1071	52.90	1079	54.00
47922	4200	1050	49.60	1058	50.70	1066	51.80	1074	52.90	1082	54.00	1090	55.10	1098	56.20	1106	57.30	1114	58.40	1122	59.50
50204	4400	1093	55.60	1101	56.70	1109	57.80	1117	58.90	1125	60.00	1133	61.10	1141	62.20	1149	63.30	1157	64.40	1165	65.50
52486	4600	1137	62.10	1145	63.20	1153	64.30	1161	65.40	1169	66.50	1177	67.60	1185	68.70	1193	69.80	1201	70.90	1209	72.00
54768	4800	1181	69.10	1189	70.20	1197	71.30	1205	72.40	1213	73.50	1221	74.60	1229	75.70	1237	76.80	1245	77.90	1253	79.00
57050	5000	1224	76.50	1232	77.60	1240	78.70	1248	79.80	1256	80.90	1264	82.00	1272	83.10	1280	84.20	1288	85.30	1296	86.40
59332	5200	1268	84.60	1276	85.70	1284	86.80	1292	87.90	1300	89.00	1308	90.10	1316	91.20	1324	92.30	1332	93.40	1340	94.50

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25102	2200	947	35.10																		
27384	2400	965	38.60	1017	43.90	1067	49.20														
29666	2600	986	42.50	1035	47.90	1083	53.50	1130	59.30												
31948	2800	1010	46.70	1057	52.50	1102	58.20	1147	64.20	1191	70.30	1234	76.50								
34230	3000	1036	51.20	1081	57.30	1124	63.30	1167	69.60	1209	75.90	1251	82.50	1291	88.90	1332	95.80				
	3200	1064	56.10	1107	62.40	1149	68.90	1189	75.20	1230	82.00	1269	88.50	1308	95.30	1347	102.00	1385	109.00	1423	117.00
	38794	3400	1095	61.50	1135	68.00	1175	74.70	1214	81.40	1253	88.40	1291	95.30	1328	102.00	1365	109.00	1402	117.00	
	41076	3600	1126	67.20	1165	74.10	1203	81.00	1240	87.90	1278	95.20	1314	102.00	1351	110.00	1386	117.00	1421	125.00	
43558	3800	1159	73.30	1196	80.40	1233	87.80	1269	95.10	1305	103.00	1340	110.00	1375	118.00	1409	125.00	1443	133.00	1477	141.00
45640	4000	1193	79.90	1229	87.40	1264	94.90	1299	103.00	1333	110.00	1367	118.00	1401	126.00	1434	134.00	1466	142.00	1499	150.00
47922	4200	1228	87.60	1263	94.90	1296	103.00	1330	111.00	1363	119.00	1396	127.00	1428	135.00	1460	143.00	1491	151.00	1523	160.00
50204	4400	1264	94.00	1297	103.00	1330	111.00	1362	119.00	1394	127.00	1426	136.00	1457	144.00	1488	153.00	1518	161.00	1548	170.00
52486	4600	1301	103.00	1333	111.00	1364	119.00	1395	128.00	1426	137.00	1457	146.00	1487	154.00	1517	163.00	1546	172.00	1576	181.00
54768	4800	1333	111.00	1363	119.00	1393	128.00	1423	136.00	1453	146.00	1483	155.00	1513	164.00	1547	174.00	1576	183.00	1604	192.00
57050	5000	1377	121.00	1406	129.00	1435	138.00	1465	148.00	1493	157.00	1522	166.00	1550	175.00	1578	185.00	1606	194.00		
59332	5200	1410	130.00	1444	140.00	1472	149.00	1501	158.00	1528	168.00	1556	177.00	1583	187.00	1610	197.00				

# SILENTVANE™

## SIZE 3049

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	49.00 inches	1245 mm
Wheel Circumference	12.83 feet	3.911 m
Inlet Diameter/Area	52.5 inches sq./15.02 sq. ft.	1334 mm/1.395 m <sup>2</sup>
Outlet Size/Area	51.67 x 38.79 inches I.D./13.92 sq. ft.	1312 x 985 mm/1.293 m <sup>2</sup>
Tip Speed	12.83 x RPM ft./minute	3.909 x RPM m/minute
Maximum BHP	76.34 x (RPM ÷ 1000) <sup>3</sup> BHP	56.93 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3049	-20° to 150°F -29° to 66°C
CLASS I	788
CLASS II	1028
CLASS III	1295
CLASS IV	1480

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11128	800	212	0.72	232	0.95	252	1.19	270	1.43	289	1.70	306	1.95	323	2.22	340	2.49	357	2.76	374	3.03	391	3.30	408	3.57	425	3.84	442	4.11	459	4.38
12519	900	229	0.90	247	1.15	265	1.41	281	1.66	299	1.95	315	2.23	331	2.52	347	2.80	363	3.08	379	3.36	395	3.64	411	3.92	427	4.20	443	4.48	459	4.76
13910	1000	247	1.12	263	1.38	280	1.67	296	1.97	311	2.25	326	2.55	340	2.84	354	3.12	368	3.40	382	3.68	396	3.96	410	4.24	424	4.52	438	4.80	452	5.08
15301	1100	265	1.36	280	1.65	296	1.97	310	2.27	324	2.58	338	2.90	352	3.23	366	3.56	380	3.88	394	4.20	408	4.52	422	4.84	436	5.16	450	5.48	464	5.80
16692	1200	284	1.65	298	1.97	312	2.30	326	2.64	339	2.97	352	3.31	365	3.66	379	4.00	392	4.32	405	4.64	418	4.96	431	5.28	444	5.60	457	5.92	470	6.24
18083	1300	302	1.95	316	2.31	329	2.67	341	3.01	354	3.38	367	3.77	379	4.14	393	4.52	405	4.90	417	5.28	429	5.66	441	6.04	453	6.42	465	6.80	477	7.18
19474	1400	322	2.34	334	2.70	346	3.07	359	3.48	370	3.84	382	4.25	393	4.63	405	5.04	416	5.44	427	5.84	438	6.24	449	6.64	460	7.04	471	7.44	482	7.84
20865	1500	341	2.74	353	3.15	365	3.57	376	3.97	387	4.37	398	4.79	409	5.21	420	5.64	431	6.06	441	6.48	451	6.90	461	7.32	471	7.74	481	8.16	491	8.58
22256	1600	361	3.22	372	3.64	383	4.08	394	4.52	404	4.94	414	5.36	425	5.83	435	6.30	445	6.76	455	7.24	465	7.72	475	8.20	485	8.68	495	9.16	505	9.64
23647	1700	381	3.75	392	4.22	402	4.67	412	5.12	422	5.58	432	6.05	442	6.53	452	7.02	462	7.50	472	7.98	482	8.46	492	8.94	502	9.42	512	9.90	522	10.38
25038	1800	401	4.34	411	4.82	421	5.31	430	5.77	440	6.27	449	6.74	458	7.22	467	7.70	476	8.18	485	8.66	494	9.14	503	9.62	512	10.10	521	10.58	530	11.06
26429	1900	421	4.98	431	5.51	440	6.01	449	6.50	458	7.01	467	7.53	476	8.05	485	8.57	494	9.09	503	9.61	512	10.13	521	10.65	530	11.17	539	11.69	548	12.21
27820	2000	442	5.73	450	6.22	459	6.75	468	7.30	477	7.85	485	8.36	493	8.87	501	9.39	509	9.90	517	10.41	525	10.92	533	11.43	541	11.94	549	12.45	557	12.96
30602	2200	482	7.35	490	7.92	498	8.49	507	9.13	515	9.72	522	10.30	530	10.90	538	11.50	546	12.10	554	12.70	562	13.30	570	13.90	578	14.50	586	15.10	594	15.70
33384	2400	523	9.30	531	10.00	538	10.60	546	11.20	553	11.90	560	12.50	567	13.10	574	13.70	581	14.30	588	14.90	595	15.50	602	16.10	609	16.70	616	17.30	623	17.90
36166	2600	565	11.70	572	12.30	579	13.00	585	13.60	592	14.40	599	15.10	605	15.70	611	16.30	617	16.90	623	17.50	629	18.10	635	18.70	641	19.30	647	19.90	653	20.50
38948	2800	606	14.30	613	15.10	619	15.80	626	16.60	631	17.20	638	18.00	644	18.70	650	19.40	656	20.10	662	20.80	668	21.50	674	22.20	680	22.90	686	23.60	692	24.30
41730	3000	648	17.40	654	18.20	660	18.90	666	19.70	671	20.40	677	21.20	683	22.00	689	22.80	695	23.60	701	24.40	707	25.20	713	26.00	719	26.80	725	27.60	731	28.40
44512	3200	689	20.80	695	21.70	701	22.50	706	23.30	712	24.20	717	25.00	723	25.90	729	26.80	735	27.70	741	28.60	747	29.50	753	30.40	759	31.30	765	32.20	771	33.10
47294	3400	731	24.80	737	25.70	742	26.60	747	27.40	752	28.30	757	29.20	763	30.20	769	31.20	775	32.20	781	33.20	787	34.20	793	35.20	799	36.20	805	37.20	811	38.20
50076	3600	773	29.20	778	30.10	783	31.10	788	32.00	793	33.00	798	33.90	803	34.90	809	35.90	815	36.90	821	37.90	827	38.90	833	39.90	839	40.90	845	41.90	851	42.90
52858	3800	815	34.10	819	35.00	824	36.10	829	37.10	834	38.10	839	39.20	844	40.00	849	40.90	854	41.80	859	42.70	864	43.60	869	44.50	874	45.40	879	46.30	884	47.20
55640	4000	857	39.60	861	40.60	866	41.70	870	42.60	875	43.80	879	44.70	884	45.90	889	46.80	894	47.70	899	48.60	904	49.50	909	50.40	914	51.30	919	52.20	924	53.10
58422	4200	899	45.60	903	46.70	907	47.70	912	48.90	916	50.00	920	51.00	925	52.30	933	54.40	941	56.50	949	58.60	957	60.70	965	62.80	973	64.90	981	67.00	989	69.10
61204	4400	941	52.20	945	53.30	949	54.50	953	55.60	957	56.70	961	57.90	965	59.00	973	61.30	982	63.80	990	66.30	998	68.80	1006	71.30	1014	73.80	1022	76.30	1030	78.80
63986	4600	983	59.50	987	60.70	991	61.90	995	63.10	999	64.30	1002	65.30	1006	66.60	1014	69.00	1022	71.50	1030	74.00	1038	76.50	1046	79.00	1054	81.50	1062	84.00	1070	86.50
66768	4800	1025	67.30	1029	68.60	1032	69.70	1036	71.00	1040	72.30	1044	73.60	1047	74.70	1055	77.30	1062	79.70	1070	82.20	1078	84.70	1086	87.20	1094	89.70	1102	92.20	1110	94.70
69550	5000	1067	75.90	1071	77.20	1074	78.40	1078	79.80	1081	81.00	1085	82.30	1089	83.80	1096	86.30	1103	88.90	1110	91.50	1117	94.10	1124	96.70	1131	99.30	1138	101.90	1145	104.50
72332	5200	1109	85.10	1112	86.30	1116	87.80	1119	89.00	1123	90.50	1126	91.70	1130	93.30	1137	96.00	1144	98.70	1150	101.00	1157	103.30	1164	105.60	1171	107.90	1178	110.20	1185	112.50

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16692	1200	462	6.68																		
18083	1300	471	7.33	513	9.01																
19474	1400	481	8.02	521	9.77	561	11.70														
20865	1500	491	8.70	530	10.60	568	12.50	605	14.60												
22256	1600	503	9.50	541	11.50	577	13.50	612	15.60	646	17.70										
23647	1700	517	10.40	552	12.40	587	14.50	621	16.70	654	19.00	686	21.30								
25038	1800	530	11.30	564	13.40	598	15.60	630	17.80	662	20.20	693	22.50	724	25.00						
26429	1900	545	12.30	577	14.50	609	16.70	641	19.10	671	21.50	702	24.00	731	26.50	760	29.10				
27820	2000	559	13.30	591	15.70	622	18.00	652	20.40	682	22.90	710	25.40	739	28.00	767	30.60	795	33.40		
30602	2200	591	15.70	620	18.20	649	20.70	677	23.30	704	25.90	732	28.70	758	31.30	784	34.10	811	37.10	836	39.90
33384	2400	624	18.40	651	21.00	678	23.80	704	26.50	730	29.30	755	32.10	780	35.00	805	38.00	830	41.10	854	44.10
36166	2600	658	21.40	683	24.20	708	27.00	733	30.00	758	33.10	781	36.00	805	39.10	829	42.30	851	45.20	875	48.70
38948	2800	693	24.70	717	27.70	741	30.90	764	34.00	787	37.20	810	40.40	832	43.60	854	46.90	876	50.20	898	53.70
41730	3000	730	28.60	752	31.70	774	35.00	796	38.30	818	41.70	839	45.00	860	48.40	882	52.10	902	55.40	923	59.10
44512	3200	766	32.60	788	36.20	809	39.70	829	43.00	850	46.70	870	50.20	890	53.80	911	57.60	930	61.10	950	65.00
47294	3400	804	37.30	824	41.00	844	44.70	864	48.40	883	52.00	903	55.90	922	59.70	941	63.50	960	67.40	978	71.20
50076	3600	842	42.50	861	46.30	880	50.20	899	54.10	918	58.10	936	62.00	954	65.90	972	69.90	990	74.00	1008	78.10
52858	3800	880	48.00	898	52.00	917	56.30	934	60.20	952	64.40	970	68.60	987	72.70	1005	77.10	1022	81.20	1039	85.50
55640	4000	919	53.40	936	58.40	954	62.80	971	67.10	988	71.40	1005	75.80	1021	80.00	1038	84.50	1055	89.10	1071	93.40
58422	4200	958	61.00	975	65.50	991	69.90	1008	74.50	1024	79.00	1040	83.40	1056	88.00	1072	92.60	1088	97.30	1104	102.00
61204	4400	998	68.40	1013	72.90	1029	77.60	1045	82.30	1061	87.20	1076	91.80	1092	96.70	1107	101.00	1122	106.00	1137	111.00
63996	4600	1037	76.20	1053	81.20	1068	86.10	1083	91.00	1098	95.90	1113	101.00	1128	106.00	1142	111.00	1157	116.00	1171	121.00
66788	4800	1077	84.80	1093	90.00	1107	95.10	1121	100.00	1135	105.00	1150	110.00	1164	116.00	1178	121.00	1192	126.00	1206	131.00
69580	5000	1117	94.10	1131	99.30	1145	105.00	1159	110.00	1173	115.00	1187	121.00	1201	126.00	1215	133.00	1228	137.00	1242	142.00
72332	5200	1157	104.00	1171	110.00	1184	115.00	1198	121.00	1212	126.00	1225	132.00	1238	137.00	1251	143.00	1264	148.00	1278	154.00

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

SIZE 3054

SIZE 3054	-20° to 150°F	-29° to 66°C
CLASS I	709	
CLASS II	925	
CLASS III	1166	
CLASS IV	1335	

Wheel Diameter	54.25 inches	1378 mm
Wheel Circumference	14.20 feet	4.328 m
Inlet Diameter/Area	58.25 inches sq./18.49 sq. ft.	1480 mm/1.718 m <sup>2</sup>
Outlet Size/Area	57.29 x 42.79 inches I.D./17.03 sq. ft.	1455 x 1087 mm/1.582 m <sup>2</sup>
Tip Speed	14.20 x RPM ft./minute	4.328 x RPM m/minute
Maximum BHP	126.8 x (RPM ÷ 1000) <sup>3</sup> BHP	94.56 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13584	800	191	0.88	209	1.15	227	1.45	244	1.75	260	2.05	276	2.38	291	2.69	307	3.06
15282	900	206	1.09	223	1.41	239	1.72	254	2.04	270	2.39	284	2.71	298	3.08	312	3.48
16980	1000	222	1.36	237	1.68	252	2.03	266	2.37	280	2.73	294	3.11	307	3.48	321	3.86
18678	1100	239	1.66	252	2.00	266	2.38	279	2.75	292	3.14	305	3.54	318	3.96	332	4.38
20376	1200	255	1.98	268	2.38	280	2.76	293	3.19	305	3.60	317	4.02	329	4.46	342	4.88
22074	1300	272	2.37	284	2.80	296	3.24	308	3.69	319	4.12	330	4.56	341	5.01	352	5.45
23772	1400	289	2.81	301	3.29	312	3.75	323	4.22	334	4.71	344	5.16	355	5.67	366	6.12
25470	1500	307	3.33	318	3.83	328	4.31	338	4.79	348	5.29	359	5.85	368	6.32	377	6.81
27168	1600	325	3.91	335	4.43	345	4.96	355	5.51	364	6.01	373	6.52	383	7.10	392	7.61
28866	1700	343	4.55	352	5.09	362	5.68	371	6.22	380	6.78	389	7.35	398	7.93	407	8.51
30564	1800	361	5.27	370	5.85	379	6.45	387	6.99	396	7.61	405	8.23	413	8.81	422	9.40
32262	1900	379	6.05	388	6.69	396	7.29	404	7.88	413	8.56	421	9.18	429	9.80	437	10.40
33960	2000	397	6.91	405	7.55	413	8.19	421	8.85	429	9.51	437	10.20	445	10.90	453	11.60
37356	2200	434	8.92	441	9.61	449	10.40	456	11.10	463	11.80	470	12.50	477	13.20	484	13.90
40752	2400	471	11.30	478	12.10	485	12.90	491	13.60	498	14.40	504	15.10	511	15.90	517	16.60
44148	2600	508	14.10	514	14.90	521	15.80	527	16.60	533	17.40	539	18.30	545	19.10	551	19.90
47544	2800	545	17.30	551	18.20	557	19.10	562	19.90	568	20.90	574	21.80	580	22.70	586	23.60
50940	3000	583	21.10	588	22.00	594	23.00	599	23.90	604	24.80	610	25.90	615	26.80	621	27.70
54336	3200	620	25.20	625	26.20	631	27.40	635	28.50	640	29.30	646	30.40	651	31.50	656	32.60
57732	3400	658	30.10	663	31.20	668	32.30	672	33.20	677	34.40	682	35.50	686	36.50	691	37.60
61128	3600	695	35.30	700	36.50	704	37.60	709	38.80	713	39.90	718	41.10	722	42.20	727	43.30
64524	3800	733	41.30	737	42.50	742	43.80	746	45.00	750	46.10	754	47.30	759	48.70	763	49.90
67920	4000	771	48.00	775	49.20	779	50.50	783	51.80	787	53.00	791	54.30	795	55.50	799	56.80
71316	4200	809	55.30	812	56.50	816	57.80	820	59.20	824	60.60	828	61.90	832	63.30	836	64.70
74712	4400	846	63.20	850	64.60	854	66.10	858	67.60	861	68.80	865	70.30	869	71.70	873	73.10
78108	4600	884	72.00	888	73.50	891	74.80	895	76.40	898	77.70	902	79.30	905	80.70	909	82.10
81504	4800	922	81.50	925	82.90	929	84.60	932	86.00	936	87.70	939	89.10	942	90.60	945	92.10
84900	5000	960	91.90	963	93.40	966	94.90	970	96.70	973	98.20	976	100.00	979	101.00	982	102.00
88296	5200	998	103.00	1001	105.00	1004	106.00	1007	108.00	1010	110.00	1013	111.00	1017	113.00	1020	115.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20376	1200	417	8.16	463	11.00	506	14.20	546	17.80	583	21.60	619	25.90	653	30.50	686	35.50	717	40.70	754	48.60
22074	1300	425	8.94	470	11.90	513	15.30	550	19.00	587	22.80	624	27.60	659	32.20	692	37.30	727	45.10	765	53.90
23772	1400	433	9.72	479	13.00	520	16.50	558	20.50	595	24.60	632	29.20	667	34.20	699	39.90	734	48.90	772	59.30
25470	1500	443	10.60	479	13.00	520	16.50	558	20.50	595	24.60	632	29.20	667	34.20	699	39.90	734	48.90	772	59.30
27168	1600	454	11.60	488	14.00	521	16.50	559	21.00	596	25.10	633	30.00	668	35.00	700	40.70	735	49.90	773	59.90
28866	1700	465	12.60	498	15.10	530	17.80	560	21.80	597	26.00	634	31.00	669	36.00	701	41.70	736	50.90	774	60.90
30564	1800	478	13.80	509	16.40	539	19.00	569	23.00	600	27.00	635	32.00	670	37.00	702	42.70	737	51.90	775	61.90
32262	1900	491	15.00	521	17.70	550	20.50	578	23.30	606	28.30	636	33.00	671	38.00	703	43.70	738	52.90	776	62.90
33960	2000	504	16.20	533	19.10	561	22.00	588	24.90	615	29.90	641	34.00	672	39.00	704	44.70	739	53.90	777	63.90
37356	2200	532	19.10	559	22.10	585	25.30	610	28.30	635	31.60	660	35.00	684	38.20	707	45.00	740	54.90	779	64.90
40752	2400	562	22.30	587	25.60	611	28.90	635	32.30	658	35.70	681	38.90	704	42.80	726	47.70	747	51.50	768	55.30
44148	2600	593	26.00	616	29.50	639	33.10	661	36.60	683	40.30	704	43.80	726	47.70	747	51.50	768	55.30	789	59.30
47544	2800	624	30.00	646	33.80	668	37.70	688	41.30	709	45.20	730	49.20	750	53.10	770	57.10	790	61.30	809	65.20
50940	3000	657	34.60	677	38.50	697	42.50	717	46.60	737	50.80	757	55.00	776	59.20	795	63.40	813	67.50	832	71.80
54336	3200	690	39.70	709	43.90	728	48.10	747	52.40	766	56.80	784	61.10	802	65.40	821	70.10	838	74.40	856	78.60
57732	3400	724	45.40	742	49.80	760	54.30	778	58.80	796	63.50	813	67.90	830	72.50	848	77.40	865	82.10	882	86.90
61128	3600	758	51.60	775	56.20	793	61.10	809	65.70	826	70.50	843	75.40	860	80.40	876	85.20	892	90.00	908	95.00
64524	3800	792	58.30	809	63.40	825	68.20	841	73.20	858	78.40	874	83.50	890	88.70	905	93.60	921	98.90	936	104.00
67920	4000	827	65.80	843	71.00	859	76.40	874	81.50	890	86.90	905	92.20	920	97.40	935	103.00	950	108.00	965	114.00
71316	4200	862	73.90	878	79.60	892	84.60	907	90.30	922	95.90	937	102.00	951	107.00	966	113.00	980	118.00	994	124.00
74712	4400	898	83.00	912	88.50	926	94.10	941	100.00	955	106.00	969	112.00	983	117.00	997	123.00	1011	129.00	1024	135.00
78108	4600	934	92.70	947	98.40	961	104.00	975	110.00	988	116.00	1002	122.00	1015	128.00	1029	135.00	1042	141.00	1055	147.00
81504	4800	969	103.00	983	109.00	996	115.00	1009	122.00	1022	128.00	1035	134.00	1048	140.00	1061	147.00	1074	153.00	1086	159.00
84900	5000	1005	114.00	1018	121.00	1031	127.00	1044	134.00	1056	140.00	1069	147.00	1081	153.00	1093	159.00	1106	166.00	1118	173.00
88296	5200	1042	126.00	1054	133.00	1066	140.00	1078	146.00	1091	153.00	1103	160.00	1115	167.00	1127	174.00	1139	181.00	1150	187.00

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37356	2200	777	52.20																		
40752	2400	792	57.60	834	65.20	875	73.10														
44148	2600	809	63.20	850	71.50	889	79.80	927	88.20												
47544	2800	829	69.50	867	78.00	904	86.60	941	95.50	977	105.00	1013	114.00								
50940	3000	850	76.20	887	85.20	922	94.10	958	104.00	992	113.00	1026	123.00	1060	133.00	1092	142.00				
	3200	874	83.70	908	92.80	943	103.00	976	112.00	1008	122.00	1042	131.00	1074	145.00	1105	150.00				
	3400	896	91.40	932	100.00	964	111.00	996	121.00	1023	131.00	1059	142.00	1090	152.00	1121	163.00	1137	174.00	1168	174.00
	3600	925	100.00	956	110.00	987	120.00	1018	131.00	1048	141.00	1079	153.00	1108	163.00	1137	174.00	1166	185.00	1195	197.00
64524	3800	951	109.00	982	120.00	1012	131.00	1041	141.00	1071	153.00	1100	164.00	1128	175.00	1156	186.00	1184	198.00	1212	210.00
	4000	979	119.00	1009	130.00	1038	142.00	1066	153.00	1094	164.00	1122	176.00	1149	187.00	1177	200.00	1203	211.00	1230	223.00
	4200	1008	130.00	1036	141.00	1064	153.00	1092	165.00	1119	177.00	1145	188.00	1172	201.00	1198	213.00	1224	225.00	1250	238.00
	4400	1038	141.00	1065	153.00	1092	165.00	1118	177.00	1144	189.00	1170	202.00	1196	215.00	1221	217.00	1246	240.00	1271	253.00
78108	4600	1068	153.00	1094	165.00	1120	178.00	1145	190.00	1171	204.00	1196	217.00	1220	229.00	1245	242.00	1269	256.00	1293	269.00
	4800	1099	168.00	1124	179.00	1149	192.00	1173	205.00	1198	216.00	1222	231.00	1246	245.00	1270	259.00	1293	272.00	1317	286.00
	5000	1130	179.00	1155	193.00	1178	207.00	1202	220.00	1226	234.00	1249	247.00	1273	262.00	1295	275.00	1318	289.00		
	5200	1162	194.00	1185	208.00	1209	222.00	1232	236.00	1255	250.00	1277	264.00	1300	279.00	1322	293.00				

# SILENTVANE™

## SIZE 3060

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	60.00 inches	1524 mm
Wheel Circumference	15.71 feet	4.785 m
Inlet Diameter/Area	64.0 inches sq./22.32 sq. ft.	1626 mm/2.074 m <sup>2</sup>
Outlet Size/Area	63.29 x 47.17 inches I.D./20.73 sq. ft.	1608 x 1198 mm/1.926 m <sup>2</sup>
Tip Speed	15.71 x RPM ft./minute	4.785 x RPM m/minute
Maximum BHP	209.7 x (RPM ÷ 1000) <sup>3</sup> BHP	156.4 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3060	-20° to 150°F	-29° to 66°C
CLASS I	640	
CLASS II	835	
CLASS III	1052	
CLASS IV	1210	

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1 ¼" SP		1 ½" SP		1 ¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16568	800	173	1.08	189	1.41	205	1.77	220	2.12	235	2.50	250	2.91	264	3.32
18639	900	186	1.33	201	1.70	216	2.10	230	2.50	243	2.88	257	3.33	270	3.76
20710	1000	200	1.63	214	2.05	227	2.46	240	2.88	253	3.33	265	3.77	277	4.22
22781	1100	215	2.00	228	2.45	240	2.90	252	3.36	264	3.84	275	4.30	286	4.77
24852	1200	230	2.41	242	2.90	253	3.37	265	3.90	275	4.36	286	4.89	297	5.43
26923	1300	246	2.91	257	3.43	267	3.93	278	4.49	288	5.01	298	5.55	308	6.11
28994	1400	261	3.43	271	3.97	282	4.58	291	5.11	301	5.70	311	6.31	320	6.88
31065	1500	277	4.05	286	4.61	296	5.24	305	5.83	315	6.50	323	7.05	332	7.68
33136	1600	293	4.75	302	5.37	311	6.02	320	6.68	328	7.28	337	7.97	346	8.67
35207	1700	309	5.52	318	6.21	326	6.86	334	7.52	343	8.26	351	8.94	359	9.64
37278	1800	325	6.36	334	7.13	342	7.84	350	8.57	357	9.23	365	10.00	373	10.70
39349	1900	342	7.37	350	8.13	357	8.84	365	9.63	372	10.40	379	11.10	387	11.90
41420	2000	359	8.47	366	9.23	373	10.00	380	10.80	387	11.60	394	12.40	401	13.20
43562	2200	391	10.80	395	11.70	405	12.60	411	13.40	418	14.30	424	15.20	431	16.10
49704	2400	425	13.80	431	14.70	437	15.60	443	16.50	449	17.50	455	18.50	461	19.40
53846	2600	458	17.10	464	18.10	469	19.10	475	20.20	481	21.20	486	22.20	492	23.30
57988	2800	492	21.10	497	22.10	502	23.20	507	24.20	513	25.40	518	26.50	523	27.60
62130	3000	526	25.60	530	26.60	535	27.80	540	28.90	545	30.20	550	31.40	555	32.60
66272	3200	559	30.60	564	31.90	568	33.00	573	34.40	578	35.70	582	36.80	587	38.20
70414	3400	593	36.40	597	37.70	602	39.10	606	40.40	610	41.60	615	43.10	619	44.40
74556	3600	627	42.90	631	44.30	635	45.70	639	47.00	643	48.40	647	49.80	651	51.20
78698	3800	661	50.20	665	51.60	669	53.10	673	54.70	676	55.90	680	57.40	684	58.90
82840	4000	695	58.20	699	59.80	702	61.10	706	62.80	710	64.40	713	65.80	717	67.50
86982	4200	729	67.00	732	68.50	736	70.20	740	72.00	743	73.50	747	75.30	750	76.80
91124	4400	763	76.70	766	78.30	770	80.20	773	81.80	776	83.30	780	85.30	783	86.90
95266	4600	797	87.20	800	88.90	803	90.60	807	92.70	810	94.40	813	96.10	816	97.80
99408	4800	831	99.50	834	101.00	837	102.00	841	105.00	844	106.00	847	108.00	850	110.00
103550	5000	865	111.00	868	113.00	871	115.00	874	117.00	877	119.00	880	121.00	883	123.00
107692	5200	899	125.00	902	127.00	905	129.00	908	131.00	911	133.00	914	135.00	917	137.00

VOL CFM	OUT VEL	2" SP		2 ½" SP		3" SP		3 ½" SP		4" SP		4 ½" SP		5" SP		5 ½" SP		6" SP		6 ½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24852	1200	377	10.00																		
26923	1300	383	10.80	419	13.50																
28994	1400	391	11.80	425	14.50	457	17.30														
31065	1500	401	13.00	432	15.70	463	18.60	494	21.80												
33136	1600	410	14.10	441	17.10	470	20.00	499	23.20												
35207	1700	421	15.50	450	18.50	478	21.60	506	24.80	533	28.20	559	31.50								
37278	1800	432	16.80	460	20.00	487	23.20	514	26.60	540	30.10	565	33.50	590	37.20						
39349	1900	443	18.20	470	21.50	496	24.90	522	28.40	547	31.90	572	35.60	596	39.40	620	43.30				
41420	2000	455	19.80	481	23.20	507	26.80	531	30.30	555	33.90	579	37.80	603	41.70	626	45.70	648	49.60		
43562	2200	480	23.20	505	27.00	528	30.70	551	34.60	574	38.50	596	42.50	618	46.60	640	50.90	661	55.10	682	59.40
49704	2400	507	27.10	530	31.20	551	35.10	573	39.30	594	43.40	615	47.70	636	52.10	656	56.40	676	60.90	696	65.50
53846	2600	535	31.60	556	35.90	576	40.10	597	44.60	617	49.10	636	53.50	656	58.20	675	62.80	694	67.50	713	72.40
57988	2800	563	36.50	583	41.10	602	45.60	622	50.50	640	55.00	659	59.90	677	64.60	695	69.50	713	74.50	731	79.60
62130	3000	592	42.00	611	46.90	629	51.70	647	56.70	665	61.70	683	66.30	700	71.90	718	77.30	734	82.20	751	87.50
66272	3200	622	48.20	640	53.40	657	58.50	674	63.70	691	69.00	708	74.50	724	79.70	741	85.30	757	90.70	773	96.20
70414	3400	653	55.10	669	60.40	686	66.10	702	71.50	718	77.10	734	82.70	750	88.50	765	94.00	781	100.00	796	106.00
74556	3600	684	62.80	699	68.30	715	74.20	730	79.90	746	86.00	761	91.80	776	97.70	791	104.00	805	110.00	820	116.00
78698	3800	715	71.00	730	77.10	745	83.20	759	89.00	774	95.30	788	101.00	803	108.00	817	114.00	831	120.00	845	127.00
82840	4000	746	80.00	760	86.20	775	92.90	789	99.20	803	106.00	816	112.00	830	118.00	844	125.00	857	132.00	871	138.00
86982	4200	778	90.00	791	96.40	805	103.00	818	110.00	832	117.00	845	123.00	858	130.00	871	137.00	884	144.00	897	151.00
91124	4400	810	101.00	823	108.00	836	115.00	849	122.00	862	129.00	874	136.00	887	143.00	899	150.00	912	157.00	924	164.00
95266	4600	842	112.00	854	119.00	867	127.00	879	134.00	892	142.00	904	149.00	916	156.00	928	164.00	940	171.00	952	179.00
99408	4800	874	125.00	886	132.00	898	140.00	910	148.00	922	155.00	934	163.00	945	170.00	957	178.00	969	186.00	980	194.00
103550	5000	907	139.00	918	146.00	930	154.00	941	162.00	953	170.00	964	178.00	975	186.00	987	194.00	998	202.00	1009	210.00
107692	5200	939	153.00	950	161.00	962	170.00	973	178.00	984	186.00	995	195.00	1006	203.00	1016	211.00	1027	219.00	1038	228.00

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45562	2200	702	63.70																		
49704	2400	716	70.30	754	79.70	791	89.20														
53846	2600	731	77.10	768	87.20	803	97.20	838	108.00												
57988	2800	749	84.80	783	95.00	817	106.00	850	116.00	883	128.00	915	139.00								
62130	3000	768	92.90	801	104.00	833	115.00	865	126.00	896	138.00	927	149.00	958	162.00	987	174.00				
66272	3200	789	102.00	820	113.00	851	125.00	882	137.00	912	149.00	941	161.00	970	173.00	999	186.00	1027	199.00	1055	212.00
70414	3400	811	111.00	841	123.00	871	136.00	900	148.00	928	160.00	957	173.00	985	186.00	1012	199.00	1040	212.00	1066	225.00
74556	3600	834	122.00	863	134.00	892	147.00	920	160.00	947	173.00	974	186.00	1001	199.00	1028	219.00	1054	226.00	1080	240.00
78698	3800	859	133.00	887	146.00	914	159.00	941	173.00	967	186.00	993	199.00	1019	213.00	1045	228.00	1070	242.00	1095	256.00
82840	4000	884	145.00	911	159.00	937	172.00	962	186.00	988	200.00	1013	214.00	1038	228.00	1063	243.00	1087	258.00	1111	272.00
86982	4200	910	158.00	936	172.00	961	186.00	985	200.00	1010	215.00	1034	229.00	1058	244.00	1082	259.00	1106	275.00	1129	290.00
91124	4400	937	172.00	961	186.00	985	201.00	1009	216.00	1033	231.00	1056	246.00	1080	262.00	1103	277.00	1125	292.00	1148	308.00
95266	4600	964	186.00	988	202.00	1011	217.00	1034	232.00	1057	248.00	1079	263.00	1102	279.00	1124	295.00	1146	311.00	1168	328.00
99408	4800	992	202.00	1014	217.00	1037	233.00	1059	249.00	1081	266.00	1103	282.00	1125	298.00	1147	315.00	1168	332.00	1189	348.00
103550	5000	1020	218.00	1042	235.00	1064	251.00	1085	267.00	1107	285.00	1128	301.00	1149	318.00	1170	335.00	1190	352.00		
107692	5200	1049	236.00	1070	253.00	1091	270.00	1112	287.00	1132	304.00	1153	322.00	1173	339.00	1193	356.00				

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

## SIZE 3066

SIZE 3066	-20° to 150°F	-29° to 66°C
CLASS I	586	
CLASS II	764	
CLASS III	963	
CLASS IV	1100	

Wheel Diameter	66.00 inches	1676 mm
Wheel Circumference	17.30 feet	5.273 m
Inlet Diameter/Area	70.0 inches sq./26.70 sq. ft.	1778 mm/2.480 m <sup>2</sup>
Outlet Size/Area	69.60 x 52.42 inches I.D./25.34 sq. ft.	1768 x 1331 mm/2.354 m <sup>2</sup>
Tip Speed	17.30 x RPM ft./minute	5.270 x RPM m/minute
Maximum BHP	338.2 x (RPM ÷ 1000) <sup>3</sup> BHP	252.2 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20240	800	158	1.33	172	1.72	187	2.16	201	2.61	214	3.06	227	3.53	240	4.04	253	4.60	269	5.70
22770	900	170	1.64	183	2.07	197	2.57	209	3.03	222	3.55	234	4.06	246	4.60	258	5.20	274	6.34
25300	1000	183	2.01	196	2.53	208	3.04	220	3.58	231	4.09	242	4.63	252	5.22	262	5.92	282	7.16
27830	1100	197	2.47	209	3.04	220	3.59	230	4.11	241	4.71	252	5.33	262	5.92	274	6.34	295	7.57
																		301	8.42
																		320	9.76
30360	1200	211	2.99	221	3.55	232	4.18	242	4.79	252	5.41	261	5.99	271	6.65	290	7.98	308	9.31
32890	1300	225	3.58	235	4.22	245	4.88	254	5.51	263	6.15	272	6.80	282	7.56	299	8.89	316	10.30
35420	1400	239	4.23	249	4.95	258	5.65	267	6.35	275	7.00	284	7.74	293	8.50	309	9.91	325	11.40
37950	1500	254	5.02	263	5.77	271	6.47	279	7.18	288	7.99	296	8.73	304	9.49	320	11.10	335	12.60
																		350	14.20
40480	1600	269	5.91	277	6.67	285	7.45	293	8.24	301	9.05	308	9.78	316	10.60	331	12.30	346	14.00
43010	1700	284	6.89	291	7.65	299	8.51	306	9.29	314	10.20	321	11.00	328	11.80	342	13.50	356	15.20
45540	1800	298	7.89	306	8.81	313	9.67	320	10.50	327	11.40	334	12.30	341	13.20	355	15.10	368	16.80
48070	1900	313	9.08	320	10.00	327	10.90	334	11.90	341	12.80	347	13.70	354	14.70	367	16.60	380	18.50
																		392	20.40
50600	2000	329	10.50	335	11.40	342	12.40	348	13.30	355	14.30	361	15.30	367	16.20	379	18.10	392	20.30
55660	2200	359	13.50	365	14.50	371	15.60	377	16.60	383	17.70	389	18.80	394	19.80	406	22.00	417	24.20
60720	2400	390	17.10	395	18.20	401	19.40	406	20.50	411	21.60	417	22.80	422	23.90	433	26.40	443	28.60
65780	2600	420	21.20	425	22.40	430	23.60	436	25.10	440	26.10	445	27.40	451	28.80	460	31.20	470	33.70
																		480	36.40
70840	2800	451	26.10	456	27.50	461	28.90	465	30.10	470	31.50	474	32.70	479	34.10	488	36.70	498	39.80
75900	3000	482	31.70	487	33.30	491	34.60	495	35.90	500	37.50	504	38.90	509	40.50	517	43.20	526	46.20
80960	3200	513	38.10	517	39.60	521	41.00	525	42.50	530	44.30	534	45.80	538	47.30	546	50.30	554	53.40
86020	3400	544	45.20	548	46.90	552	48.50	556	50.20	560	51.80	564	53.50	568	55.10	575	58.20	583	61.60
																		590	64.70
91080	3600	575	53.30	579	55.10	583	56.80	586	58.30	590	60.20	594	62.00	597	63.50	605	67.20	612	70.60
96140	3800	606	62.20	610	64.20	613	65.80	617	67.80	620	69.40	624	71.40	627	73.00	634	76.70	641	80.40
101200	4000	638	72.40	641	74.20	644	76.00	648	78.10	651	79.90	654	81.70	658	83.90	664	87.50	671	91.40
106260	4200	669	83.30	672	85.30	675	87.20	678	89.10	682	91.40	685	93.40	688	95.30	694	99.20	700	103.00
																		707	107.00
111320	4400	700	95.30	703	97.40	706	99.40	709	102.00	712	104.00	715	106.00	718	108.00	724	112.00	730	116.00
116380	4600	732	109.00	734	111.00	737	113.00	740	115.00	743	117.00	746	120.00	749	122.00	755	126.00	760	130.00
121440	4800	763	123.00	766	125.00	768	127.00	771	130.00	774	132.00	777	134.00	780	137.00	785	141.00	791	146.00
126500	5000	794	139.00	797	141.00	800	144.00	802	146.00	805	148.00	807	150.00	810	153.00	815	157.00	821	163.00
																		826	167.00
131560	5200	825	155.00	828	158.00	831	161.00	833	163.00	836	166.00	838	168.00	841	170.00	846	175.00	851	180.00
																		856	185.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30360	1200	343	12.10	381	16.40																
32890	1300	349	13.20	387	17.80	417	21.30														
35420	1400	357	14.60	394	19.30	422	22.80	449	26.50												
37950	1500	365	15.90																		
40480	1600	374	17.30	402	20.90	429	24.60	455	28.40	480	32.30	509	38.50								
43010	1700	384	18.90	410	22.60	436	26.40	461	30.40	485	34.30	515	41.10	538	45.60						
45540	1800	394	20.40	419	24.40	444	28.40	468	32.50	492	36.80	521	43.60	543	48.20	564	52.70				
48070	1900	405	22.40	429	26.40	453	30.60	476	34.80	499	39.20										
50600	2000	416	24.30	439	28.40	462	32.80	484	37.10	506	41.60	528	46.30	549	50.90	570	55.80	590	60.60	621	72.60
55660	2200	439	28.50	461	33.10	482	37.70	503	42.40	524	47.30	544	52.20	564	57.20	583	62.20	602	67.30	634	80.10
60720	2400	464	33.50	484	38.30	504	43.30	523	48.90	543	53.80	561	58.40	580	63.80	598	69.10	616	74.50	650	88.60
65780	2600	489	38.80	508	44.10	527	49.40	545	54.70	563	60.10	581	65.70	598	71.10	616	77.00	633	82.70		
70840	2800	516	45.20	533	50.50	551	56.30	568	61.90	585	67.70	602	73.60	619	79.70	635	85.50	651	91.50	667	97.60
75900	3000	543	52.10	559	57.80	576	63.90	592	69.90	608	75.90	624	82.10	640	88.50	655	94.60	671	101.00	686	108.00
80960	3200	570	59.60	586	65.90	601	72.10	617	78.70	632	85.00	647	91.50	662	98.10	677	105.00	692	112.00	706	118.00
86020	3400	598	68.10	613	74.80	628	81.50	642	88.00	657	95.00	671	102.00	685	109.00	700	116.00	713	123.00	727	130.00
91080	3600	626	77.40	641	84.70	655	91.70	668	98.40	682	106.00	696	113.00	709	120.00	723	128.00	736	135.00	749	142.00
96140	3800	655	87.80	668	95.00	682	103.00	695	110.00	708	117.00	721	125.00	734	133.00	747	140.00	760	148.00	773	156.00
101200	4000	684	99.10	697	107.00	709	114.00	722	122.00	735	130.00	747	138.00	760	146.00	772	154.00	784	162.00	796	170.00
106260	4200	713	111.00	725	119.00	737	127.00	749	135.00	762	144.00	774	152.00	785	160.00	797	169.00	809	177.00	821	186.00
111320	4400	742	125.00	754	133.00	766	142.00	777	150.00	789	159.00	800	167.00	812	176.00	823	185.00	835	194.00	846	203.00
116380	4600	772	139.00	783	148.00	794	157.00	806	166.00	817	175.00	828	184.00	839	193.00	850	202.00	860	211.00	871	220.00
121440	4800	802	153.00	812	158.00	823	167.00	835	176.00	845	185.00	855	194.00	866	203.00	877	212.00	887	221.00	897	230.00
126500	5000	832	172.00	842	182.00	852	191.00	862	200.00	873	211.00	883	220.00	893	230.00	903	239.00	913	249.00	924	260.00
131560	5200	861	190.00	871	200.00	881	210.00	891	220.00	901	230.00	911	240.00	921	250.00	931	261.00	941	271.00	950	281.00

# SILENTVANE™

## SIZE 3073

SINGLE WIDTH  
SINGLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	73.00 inches	1854 mm
Wheel Circumference	19.11 feet	5.822 m
Inlet Diameter/Area	82.0 inches sq./36.30 sq. ft.	2082 mm/3.372 m <sup>2</sup>
Outlet Size/Area	76.98 x 57.61 inches I.D./30.80 sq. ft.	1955 x 1463 mm/2.861 m <sup>2</sup>
Tip Speed	19.11 x RPM ft./minute	5.822 x RPM m/minute
Maximum BHP	559.4 x (RPM + 1000) <sup>3</sup> BHP	417.2 x (RPM + 1000) <sup>3</sup> kW

SIZE 3073	-20° to 150°F	-29° to 66°C
CLASS I	528	
CLASS II	689	
CLASS III	868	
CLASS IV	995	

VOL	OUT	¼" SP		½" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24656	800	142	1.60	156	2.12	169	2.64	181	3.16	193	3.71	205	4.30	217	4.93	229	5.58	242	6.27	254	6.97	267	7.76	279	8.64	292	9.52	304	10.40	316	11.28
27738	900	154	2.01	166	2.56	178	3.14	189	3.70	200	4.29	211	4.92	222	5.58	234	6.27	246	7.05	258	7.83	270	8.61	282	9.39	294	10.17	306	10.95	318	11.73
30820	1000	166	2.49	177	3.09	187	3.66	198	4.32	209	5.02	219	5.68	229	6.37	240	7.05	251	7.73	262	8.41	273	9.09	284	9.77	295	10.45	306	11.13	317	11.81
33902	1100	177	2.97	188	3.67	198	4.34	208	5.03	218	5.77	227	6.45	236	7.15	246	7.85	256	8.55	266	9.25	276	9.95	286	10.65	296	11.35	306	12.05	316	12.75
36984	1200	190	3.62	200	4.36	209	5.07	218	5.79	227	6.54	236	7.32	245	8.13	254	8.94	263	9.75	272	10.56	281	11.37	290	12.18	299	12.99	308	13.80	317	14.61
40066	1300	202	4.28	212	5.13	221	5.94	229	6.68	237	7.45	245	8.23	254	9.14	262	9.95	270	10.76	278	11.57	286	12.38	294	13.19	302	14.00	310	14.81	318	15.62
43148	1400	216	5.17	224	5.98	232	6.80	240	7.64	248	8.50	256	9.38	264	10.30	272	11.20	280	12.10	288	13.00	296	13.90	304	14.80	312	15.70	320	16.60	328	17.50
46230	1500	229	6.10	237	7.00	244	7.83	252	8.77	259	9.62	267	10.60	274	11.50	282	12.40	290	13.30	298	14.20	306	15.10	314	16.00	322	16.90	330	17.80	338	18.70
49312	1600	242	7.12	249	8.02	257	9.05	264	10.00	271	10.90	278	11.90	285	12.90	292	13.90	300	14.90	307	15.90	314	16.90	321	17.90	328	18.90	335	19.90	342	20.90
52394	1700	255	8.25	262	9.25	269	10.30	276	11.30	283	12.40	290	13.40	296	14.40	303	15.50	310	16.60	317	17.70	324	18.80	331	19.90	338	20.90	345	22.00	352	23.00
55476	1800	269	9.60	275	10.60	282	11.70	289	12.90	295	13.90	301	14.90	307	16.00	313	17.10	319	18.20	325	19.30	331	20.40	337	21.50	343	22.60	349	23.70	355	24.80
58558	1900	283	11.10	289	12.20	295	13.30	301	14.40	307	15.50	313	16.60	319	17.80	325	18.90	331	20.10	337	21.20	343	22.30	349	23.40	355	24.50	361	25.60	367	26.70
61640	2000	296	12.60	302	13.80	308	15.00	314	16.20	319	17.20	325	18.50	331	19.70	337	20.90	342	22.10	348	23.30	354	24.50	360	25.70	366	26.90	372	28.10	378	29.30
64722	2100	309	14.20	315	15.40	321	16.60	327	17.80	333	19.00	339	20.20	345	21.40	351	22.60	357	23.80	363	25.00	369	26.20	375	27.40	381	28.60	387	29.80	393	31.00
67804	2200	323	16.20	329	17.60	334	18.80	340	20.20	345	21.50	350	22.70	355	24.00	360	25.30	365	26.60	370	27.90	375	29.20	380	30.50	385	31.80	390	33.10	395	34.40
70886	2300	337	18.30	343	20.00	348	21.30	353	22.60	358	23.90	363	25.20	368	26.50	373	27.80	378	29.10	383	30.40	388	31.70	393	33.00	398	34.30	403	35.60	408	36.90
73968	2400	351	20.70	357	22.40	362	23.80	367	25.20	372	26.60	377	28.00	382	29.40	387	30.80	392	32.20	397	33.60	402	35.00	407	36.40	412	37.80	417	39.20	422	40.60
77050	2500	365	23.30	371	25.20	376	26.70	381	28.20	386	29.70	391	31.20	396	32.70	401	34.20	406	35.70	411	37.20	416	38.70	421	40.20	426	41.70	431	43.20	436	44.70
80132	2600	378	26.00	383	27.80	388	28.80	392	30.20	397	31.80	401	33.20	406	34.80	411	36.40	416	38.00	421	39.60	426	41.20	431	42.80	436	44.40	441	46.00	446	47.60
83214	2700	392	28.80	397	30.80	402	31.80	406	33.20	411	34.80	416	36.40	421	38.00	426	39.60	431	41.20	436	42.80	441	44.40	446	46.00	451	47.60	456	49.20	461	50.80
86296	2800	406	31.50	411	33.30	415	34.90	419	36.50	423	38.00	428	39.80	432	41.40	440	44.00	448	46.80	456	49.60	464	52.40	472	55.20	480	58.00	488	60.80	496	63.60
89378	2900	420	34.40	425	36.40	429	38.00	433	39.60	437	41.20	441	42.80	445	44.40	453	47.20	461	50.00	469	52.80	477	55.60	485	58.40	493	61.20	501	64.00	509	66.80
92460	3000	434	38.30	438	40.10	442	41.80	446	43.50	450	45.30	454	47.00	458	48.80	466	51.60	474	54.40	482	57.20	490	60.00	498	62.80	506	65.60	514	68.40	522	71.20
95542	3100	448	42.20	452	44.00	456	45.80	460	47.60	464	49.40	468	51.20	472	53.00	480	55.80	488	58.60	496	61.40	504	64.20	512	67.00	520	69.80	528	72.60	536	75.40
98624	3200	462	46.10	466	48.00	470	49.90	474	51.80	478	53.70	482	55.60	486	57.50	494	60.40	502	63.30	510	66.20	518	69.10	526	72.00	534	74.90	542	77.80	550	80.70
101706	3300	476	50.00	480	51.90	484	53.80	488	55.70	492	57.60	496	59.50	500	61.40	508	64.30	516	67.20	524	70.10	532	73.00	540	75.90	548	78.80	556	81.70	564	84.60
104788	3400	490	54.00	494	56.00	498	58.00	502	60.00	506	62.00	510	64.00	514	66.00	522	68.90	530	71.80	538	74.70	546	77.60	554	80.50	562	83.40	570	86.30	578	89.20
107870	3500	504	58.00	508	60.00	512	62.00	516	64.00	520	66.00	524	68.00	528	70.00	536	72.90	544	75.80	552	78.70	560	81.60	568	84.50	576	87.40	584	90.30	592	93.20
110952	3600	518	62.00	522	64.00	526	66.00	530	68.00	534	70.00	538	72.00	542	74.00	550	76.90	558	79.80	566	82.70	574	85.60	582	88.50	590	91.40	598	94.30	606	97.20
114034	3700	532	66.00	536	68.00	540	70.00	544	72.00	548	74.00	552	76.00	556	78.00	564	80.90	572	83.80	580	86.70	588	89.60	596	92.50	604	95.40	612	98.30	620	101.20
117116	3800	546	70.00	550	72.00	554	74.00	558	76.00	562	78.00	566	80.00	570	82.00	578	84.90	586	87.80	594	90.70	602	93.60	610	96.50	618	99.40	626	102.30	634	105.20
120198	3900	560	74.00	564	76.00	568	78.00	572	80.00	576	82.00	580	84.00	584	86.00	592	88.90	600	91.80	608	94.70	616	97.60	624	100.50	632	103.40	640	106.30	648	109.20
123280	4000	574	78.00	578	80.00	582	82.00	586	84.00	590	86.00	594	88.00	598	90.00	606	92.90	614	95.80	622	98.70	630	101.60	638	104.50	646	107.40	654	110.30	662	113.20
126362	4100	588	82.00	592	84.00	596	86.00	600	88.00	604	90.00	608	92.00	612	94.00	620	96.90	628	99.80	636	102.70	644	105.60	652	108.50	660	111.40	668	114.30	676	117.20
129444	4200	602	86.00	606	88.00	610	90.00	614	92.00	618	94.00	622	96.00	626	98.00	634	100.90	642	103.80	650	106.70	658	109.60	666	112.50	674	115.40	682	118.30	690	121.20
132526	4300	616	90.00	620	92.00	624	94.00	628	96.00	632	98.00	636	100.00	640	102.00	648	104.90	656	107.80	664	110.70	672	113.60	680	116.50	688	119.40	696	122.30	704	125.20
135608	4400	630	94.00	634	96.00	638	98.00	642	100.00	646	102.00	650	104.00	654	106.00	662	108.90	670	111.80	678	114.70	686	117.60	694	120.50	702	123.40	710	126.30	718	129.20
138690	4500	644	98.00	648	100.00	652	102.00	656	104.00	660	106.00	664	108.00	668	110.00	676	112.90	684	115.80	692	118.70	700	121.60	708	124.50	716	127.40	724	130.30	732	133.20
141772	4600	659	102.00	663	104.00	667	106.00	671	108.00	675	110.00	679	112.00	683	114.00	691	116.90	700	119.80	708	122.70	716	125.60	724	128.50	732	131.40	740	134.30	748	137.20
144854	4700	673	106.00	677	108.00	681	110.00	685	112.00	689	114.00	693	116.00	697	118.00	705	120.90	714	123.80	722	126.70	730	129.60	738	132.50	746	135.40	754	138.30	762	141.20
147936	4800	687	110.00	691	112.00	695	114.00	699	116.00	703	118.00	707	120.00	711	122.00	719	124.90	728	127.80	736	130.70	744	133.60	752	136.50						

# 3000 SERIES

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SINGLE WIDTH  
SINGLE INLET

SIZE 3081

SIZE 3081	-20° to 150°F -29° to 66°C
CLASS I	476
CLASS II	622
CLASS III	—
CLASS IV	—

Wheel Diameter	80.75 inches	2051 mm
Wheel Circumference	21.14 feet	6.443 m
Inlet Diameter/Area	89.75 inches sq./43.60 sq. ft.	2280 mm/4.050 m <sup>2</sup>
Outlet Size/Area	85.11 x 63.61 inches I.D./37.60 sq. ft.	2162 x 1616 mm/3.493 m <sup>2</sup>
Tip Speed	21.14 x RPM ft./minute	6.440 x RPM m/minute
Maximum BHP	923.6 x (RPM ÷ 1000) <sup>3</sup> BHP	688.7 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30088	800	129	1.98	141	2.59	152	3.18	164	3.89	174	4.50	186	5.31	196	6.01		
33849	900	139	2.45	149	3.07	160	3.78	171	4.54	180	5.19	191	6.04	201	6.85	219	8.40
37610	1000	149	2.98	159	3.71	169	4.47	178	5.20	188	6.04	197	6.85	207	7.78	224	9.46
41371	1100	160	3.62	170	4.49	178	5.22	188	6.16	196	6.94	205	7.86	213	8.70	230	10.60
																246	12.50
																261	14.50
45132	1200	171	4.37	180	5.27	189	6.21	197	7.08	205	7.98	213	8.91	221	9.88	236	11.80
48893	1300	183	5.29	191	6.21	199	7.18	207	8.18	214	9.08	222	10.10	229	11.10	244	13.20
52654	1400	195	6.31	202	7.26	209	8.23	217	9.35	224	10.40	231	11.40	238	12.50	252	14.70
56415	1500	207	7.47	214	8.54	221	9.64	227	10.60	234	11.80	241	12.90	248	14.10	260	16.30
																273	18.70
																286	21.20
60176	1600	218	8.63	225	9.82	232	11.00	238	12.10	245	13.40	251	14.50	257	15.70	270	18.20
63937	1700	230	10.00	236	11.20	243	12.50	249	13.70	255	15.00	261	16.20	267	17.50	279	20.10
67698	1800	243	11.70	249	13.00	254	14.20	260	15.50	266	16.90	272	18.20	277	19.40	289	22.30
71459	1900	255	13.50	260	14.70	266	16.10	272	17.60	277	18.90	283	20.40	288	21.70	299	24.60
																309	27.30
																319	29.90
75220	2000	267	15.40	272	16.70	278	18.30	283	19.60	288	21.00	294	22.70	299	24.10	309	27.00
82742	2200	292	19.90	296	21.20	301	22.80	306	24.40	311	26.00	316	27.70	321	29.40	330	32.50
90264	2400	316	25.00	321	26.80	326	28.60	330	30.20	334	31.80	339	33.70	343	35.30	352	38.90
97786	2600	341	31.10	345	32.90	350	35.00	354	36.80	358	38.60	362	40.40	366	42.30	374	46.00
																382	49.80
																390	53.60
105308	2800	366	38.30	370	40.30	374	42.30	378	44.30	382	46.40	386	48.40	390	50.50	397	54.30
112830	3000	391	46.40	395	48.70	399	50.90	402	52.80	406	55.10	409	57.00	413	59.30	420	63.60
120352	3200	417	56.10	420	58.20	423	60.20	427	62.80	430	64.90	434	67.40	437	69.50	444	74.30
127874	3400	442	66.60	445	68.80	448	71.20	451	73.40	455	76.30	458	78.60	461	80.90	467	85.60
																474	90.80
																480	95.60
135396	3600	467	78.30	470	80.80	473	83.30	476	85.80	479	88.30	482	90.90	485	93.40	491	98.50
142918	3800	492	91.30	495	94.10	498	96.70	501	99.50	504	102.00	507	105.00	510	108.00	515	113.00
150440	4000	518	106.00	520	109.00	523	112.00	526	115.00	529	118.00	531	120.00	534	123.00	539	128.00
																545	134.00
																550	140.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45132	1200	280	18.00																		
48893	1300	285	19.70	311	24.30																
52654	1400	291	21.60	316	26.40	340	31.50														
56415	1500	298	23.60	321	28.50	345	34.10	367	39.50												
60176	1600	305	25.70	328	31.10	350	36.60	371	42.10	392	48.00										
63937	1700	313	28.10	335	33.70	356	39.30	376	45.00	396	51.10	416	57.50								
67698	1800	321	30.50	342	36.30	362	42.10	382	48.30	401	54.40	420	60.90	439	67.70						
71459	1900	330	33.30	350	39.20	369	45.20	388	51.50	407	58.10	425	64.60	443	71.50	461	78.60				
75220	2000	339	36.10	358	42.30	377	48.70	395	55.10	413	61.80	431	68.80	448	75.70	465	82.80	482	90.20		
82742	2200	358	42.40	375	48.90	393	55.90	410	62.90	427	70.10	443	77.10	460	84.90	476	92.50	491	100.00	507	108.00
90264	2400	377	49.30	394	56.60	410	63.80	426	71.30	442	79.00	458	87.00	473	94.70	488	103.00	503	111.00	518	119.00
97786	2600	398	57.50	414	65.40	429	73.10	444	81.10	459	89.30	473	97.10	488	106.00	502	114.00	516	123.00	530	131.00
105308	2800	419	66.40	434	74.80	448	83.00	462	91.40	476	100.00	490	109.00	504	118.00	517	126.00	531	136.00	544	145.00
112830	3000	441	76.60	455	85.50	469	94.70	482	103.00	495	112.00	508	121.00	521	131.00	534	140.00	547	150.00	559	159.00
120352	3200	463	87.70	476	97.00	489	107.00	502	116.00	514	125.00	527	136.00	539	145.00	551	155.00	563	165.00	575	175.00
127874	3400	486	100.00	498	110.00	510	120.00	522	130.00	535	141.00	546	150.00	558	161.00	570	172.00	581	182.00	592	192.00
135396	3600	509	114.00	521	125.00	532	135.00	544	146.00	555	156.00	566	167.00	577	177.00	588	188.00	599	199.00	610	210.00
142918	3800	532	129.00	543	140.00	554	151.00	565	162.00	576	173.00	587	185.00	597	196.00	608	207.00	618	218.00		
150440	4000	556	146.00	566	157.00	577	169.00	587	180.00	598	193.00	608	204.00	618	216.00						

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■

Refer to factors on page 54 to convert numbers above to the desired metric units.

The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.

For minimum motor size required see "Fan Starting Requirements," page 9.

If the Maximum Safe Operating RPM is not shown, consult the factory.

Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.

Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## SIZE 3012 DOUBLE WIDTH DOUBLE INLET

## MAXIMUM CLASS OPERATING RPM FAN TEMPERATURE

Wheel Diameter	12.25 inches	311 mm
Wheel Circumference	3.21 feet	.9784 m
Inlet Diameter/Area	13.5 inches dia./1.98 sq. ft.	343 mm/.1839 m <sup>2</sup>
Outlet Size/Area	12.79 x 17.35 inches I.D./1.54 sq. ft.	325 x 441 mm/.1431 m <sup>2</sup>
Tip Speed	3.21 x RPM ft./minute	.9779 x RPM m/minute
Maximum BHP	.123 x (RPM ÷ 1000) <sup>3</sup> BHP	.0917 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3012	-20° to 150°F -29° to 66°C
CLASS I	3545
CLASS II	4621
CLASS III	—
CLASS IV	—

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1240	800	894	0.10	977	0.13	1057	0.17	1128	0.20	1197	0.24	1265	0.28	1329	0.32	1466	0.41	1606	0.54	1734	0.70
1395	900	964	0.12	1043	0.16	1114	0.20	1185	0.23	1249	0.27	1309	0.31	1372	0.36	1489	0.45	1637	0.59	1776	0.76
1550	1000	1035	0.15	1110	0.19	1178	0.23	1242	0.27	1306	0.31	1365	0.36	1421	0.40	1531	0.50	1679	0.65	1824	0.83
1705	1100	1107	0.18	1179	0.22	1245	0.27	1305	0.31	1364	0.36	1422	0.40	1477	0.45	1578	0.55	1679	0.65	1776	0.76
1860	1200	1180	0.22	1250	0.27	1313	0.31	1372	0.36	1427	0.41	1480	0.46	1534	0.51	1634	0.61	1726	0.72	1819	0.83
2015	1300	1256	0.27	1322	0.31	1383	0.36	1440	0.41	1493	0.46	1544	0.52	1592	0.57	1691	0.68	1782	0.79	1867	0.91
2170	1400	1335	0.32	1394	0.37	1453	0.42	1509	0.47	1561	0.53	1610	0.58	1657	0.64	1749	0.75	1838	0.87	1922	0.99
2325	1500	1415	0.38	1468	0.43	1525	0.48	1579	0.54	1629	0.59	1677	0.65	1723	0.71	1810	0.84	1896	0.96	1979	1.09
2480	1600	1495	0.44	1544	0.50	1598	0.56	1650	0.61	1699	0.67	1746	0.73	1791	0.80	1875	0.92	1954	1.05	2036	1.19
2635	1700	1577	0.52	1623	0.58	1672	0.63	1722	0.70	1770	0.76	1815	0.82	1859	0.89	1942	1.02	2020	1.16	2094	1.30
2790	1800	1658	0.60	1703	0.66	1746	0.72	1795	0.79	1841	0.85	1886	0.92	1929	0.98	2010	1.12	2086	1.27	2158	1.41
2945	1900	1740	0.69	1783	0.75	1824	0.82	1868	0.89	1914	0.95	1957	1.02	1999	1.09	2078	1.24	2153	1.39	2224	1.54
3100	2000	1823	0.79	1864	0.86	1904	0.93	1943	1.00	1987	1.07	2029	1.14	2070	1.21	2148	1.36	2221	1.51	2290	1.67
3410	2200	1989	1.02	2027	1.09	2064	1.17	2100	1.24	2135	1.32	2175	1.40	2214	1.48	2288	1.64	2359	1.80	2426	1.97
3720	2400	2156	1.29	2192	1.37	2226	1.46	2260	1.54	2292	1.62	2324	1.70	2361	1.79	2432	1.96	2500	2.13	2565	2.31
4030	2600	2324	1.61	2357	1.70	2390	1.79	2421	1.88	2452	1.97	2482	2.06	2511	2.15	2578	2.33	2643	2.52	2706	2.70
4340	2800	2493	1.99	2524	2.08	2555	2.17	2584	2.27	2613	2.36	2642	2.46	2670	2.56	2726	2.75	2789	2.95	2849	3.15
4650	3000	2662	2.41	2692	2.51	2720	2.61	2748	2.71	2776	2.82	2803	2.92	2830	3.02	2881	3.23	2936	3.44	2994	3.65
4960	3200	2832	2.90	2860	3.00	2887	3.11	2914	3.22	2940	3.33	2965	3.44	2991	3.55	3040	3.77	3088	3.99	3142	4.21
5270	3400	3002	3.45	3029	3.56	3054	3.67	3080	3.79	3104	3.90	3129	4.02	3153	4.13	3200	4.37	3246	4.60	3291	4.84
5580	3600	3173	4.06	3198	4.18	3222	4.30	3246	4.42	3270	4.54	3293	4.67	3317	4.79	3362	5.03	3406	5.28	3449	5.53
5890	3800	3344	4.75	3368	4.87	3391	5.00	3414	5.13	3436	5.26	3459	5.39	3481	5.51	3524	5.77	3567	6.03	3608	6.29
6200	4000	3515	5.51	3538	5.64	3560	5.78	3582	5.91	3603	6.04	3625	6.18	3646	6.31	3688	6.59	3728	6.86	3768	7.13

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1860	1200	1909	0.95	2075	1.20																
2015	1300	1952	1.03	2117	1.29	2271	1.56														
2170	1400	2001	1.12	2159	1.39	2309	1.67	2453	1.96												
2325	1500	2057	1.22	2203	1.49	2351	1.78	2488	2.08	2622	2.40										
2480	1600	2113	1.33	2257	1.61	2394	1.90	2531	2.22	2659	2.54	2781	2.88	2932	3.25						
2635	1700	2171	1.44	2313	1.73	2443	2.04	2574	2.36	2701	2.69	2821	3.04	2935	3.39	3075	3.78				
2790	1800	2229	1.56	2369	1.87	2498	2.18	2619	2.51	2744	2.85	2864	3.21	2977	3.57	3086	3.94	3211	4.35		
2945	1900	2291	1.69	2427	2.01	2555	2.34	2674	2.67	2788	3.02	2907	3.39	3020	3.76	3128	4.15	3231	4.54	3342	4.95
3100	2000	2356	1.83	2485	2.16	2611	2.50	2730	2.85	2841	3.20	2950	3.57	3063	3.96	3170	4.36	3273	4.76	3372	5.17
3410	2200	2490	2.14	2611	2.50	2727	2.86	2843	3.23	2953	3.61	3057	4.00	3157	4.39	3257	4.80	3359	5.23	3457	5.66
3720	2400	2626	2.50	2744	2.87	2853	3.26	2960	3.66	3067	4.06	3170	4.47	3268	4.89	3362	5.31	3453	5.75	3544	6.19
4030	2600	2766	2.89	2879	3.30	2986	3.71	3087	4.13	3184	4.56	3285	4.99	3382	5.44	3474	5.88	3564	6.34	3650	6.80
4340	2800	2907	3.35	3017	3.77	3121	4.21	3220	4.65	3314	5.10	3404	5.56	3497	6.03	3589	6.50	3677	6.98	3762	7.47
4650	3000	3050	3.87	3158	4.30	3259	4.76	3355	5.23	3447	5.70	3535	6.19	3619	6.68	3705	7.18	3792	7.68	3876	8.19
4960	3200	3196	4.44	3300	4.90	3398	5.37	3492	5.86	3582	6.36	3668	6.87	3751	7.39	3831	7.91	3909	8.44	3992	8.97
5270	3400	3343	5.08	3444	5.56	3539	6.05	3631	6.55	3718	7.08	3803	7.61	3884	8.15	3963	8.70	4039	9.25	4113	9.81
5580	3600	3492	5.78	3589	6.29	3682	6.81	3772	7.33	3857	7.86	3940	8.42	4019	8.99	4097	9.56	4172	10.14	4244	10.72
5890	3800	3649	6.56	3737	7.09	3827	7.63	3914	8.18	3998	8.73	4078	9.30	4156	9.89	4232	10.49	4306	11.09	4377	11.69
6200	4000	3808	7.41	3886	7.97	3973	8.53	4058	9.11	4140	9.68	4219	10.26	4295	10.86	4369	11.48	4442	12.11	4512	12.74

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**  
**Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.**  
**All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).**

# 3000 SERIES

## SIZE 3013

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3013	-20° to 150°F -29° to 66°C
CLASS I	3229
CLASS II	4209
CLASS III	—
CLASS IV	—

Wheel Diameter	13.50 inches	343 mm
Wheel Circumference	3.53 feet	1.076 m
Inlet Diameter/Area	14.75 inches dia./2.38 sq. ft.	375 mm/2.211 m <sup>2</sup>
Outlet Size/Area	14.10 x 19.10 inches I.D./1.87 sq. ft.	358 x 485 mm/1.737 m <sup>2</sup>
Tip Speed	3.53 x RPM ft./minute	1.075 x RPM m/minute
Maximum BHP	.202 x (RPM ÷ 1000) <sup>3</sup> BHP	.1506 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1512	800	842	0.12	912	0.15	982	0.19	1047	0.23	1107	0.27	1165	0.31	1221	0.35		
1701	900	908	0.15	980	0.19	1044	0.23	1104	0.27	1161	0.31	1215	0.36	1267	0.40	1370	0.49
1890	1000	977	0.18	1045	0.23	1107	0.27	1163	0.32	1218	0.36	1269	0.41	1319	0.46	1415	0.56
2079	1100	1047	0.23	1109	0.27	1170	0.32	1227	0.37	1277	0.42	1328	0.47	1374	0.52	1465	0.63
2268	1200	1118	0.27	1179	0.32	1235	0.38	1290	0.43	1340	0.48	1388	0.54	1431	0.59	1520	0.71
2457	1300	1190	0.33	1249	0.38	1304	0.44	1356	0.50	1403	0.55	1450	0.61	1495	0.67	1577	0.79
2646	1400	1263	0.39	1319	0.45	1372	0.51	1422	0.57	1469	0.63	1513	0.69	1556	0.76	1638	0.89
2835	1500	1339	0.46	1389	0.52	1441	0.59	1488	0.65	1535	0.72	1579	0.79	1619	0.85	1698	0.99
3024	1600	1415	0.54	1464	0.61	1511	0.68	1558	0.75	1600	0.81	1642	0.88	1684	0.95	1763	1.10
3213	1700	1488	0.63	1538	0.70	1583	0.78	1628	0.85	1670	0.92	1712	1.00	1751	1.07	1824	1.22
3402	1800	1566	0.73	1612	0.81	1656	0.88	1698	0.96	1740	1.04	1779	1.11	1819	1.19	1892	1.35
3591	1900	1642	0.84	1687	0.92	1729	1.00	1768	1.08	1810	1.16	1848	1.24	1886	1.33	1958	1.49
3780	2000	1722	0.96	1763	1.05	1803	1.13	1843	1.22	1880	1.30	1918	1.39	1955	1.48	2024	1.65
4158	2200	1878	1.24	1916	1.34	1951	1.43	1989	1.52	2025	1.62	2060	1.71	2094	1.80	2161	1.99
4536	2400	2035	1.57	2070	1.68	2104	1.78	2139	1.88	2171	1.98	2203	2.08	2237	2.19	2300	2.39
4914	2600	2193	1.95	2226	2.07	2258	2.19	2287	2.29	2321	2.41	2352	2.52	2381	2.63	2442	2.85
5292	2800	2353	2.41	2383	2.53	2412	2.65	2442	2.77	2470	2.89	2501	3.01	2529	3.13	2585	3.37
5670	3000	2512	2.91	2540	3.05	2568	3.18	2596	3.31	2624	3.45	2651	3.57	2678	3.70	2731	3.95
6048	3200	2673	3.50	2699	3.64	2725	3.79	2751	3.92	2777	4.06	2802	4.20	2829	4.34	2880	4.62
6426	3400	2833	4.15	2859	4.32	2882	4.46	2908	4.62	2932	4.76	2957	4.91	2981	5.06	3028	5.34
6804	3600	2995	4.90	3019	5.07	3041	5.22	3065	5.38	3087	5.54	3111	5.70	3134	5.85	3180	6.17
7182	3800	3156	5.72	3179	5.90	3200	6.06	3222	6.23	3245	6.41	3266	6.57	3288	6.73	3332	7.06
7560	4000	3319	6.64	3339	6.82	3360	7.00	3381	7.18	3402	7.36	3423	7.53	3444	7.71	3484	8.04

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2079	1100	1718	0.97																		
2268	1200	1758	1.06																		
2457	1300	1806	1.17	1948	1.43																
2646	1400	1858	1.28	1993	1.56	2125	1.85														
2835	1500	1913	1.41	2043	1.70	2168	2.00	2290	2.31												
3024	1600	1970	1.54	2095	1.84	2216	2.16	2332	2.48	2447	2.81										
3213	1700	2029	1.69	2151	2.00	2268	2.33	2380	2.67	2488	3.01	2596	3.36								
3402	1800	2090	1.84	2209	2.17	2321	2.51	2431	2.86	2536	3.22	2638	3.58	2741	3.96						
3591	1900	2151	2.00	2268	2.35	2379	2.71	2484	3.07	2585	3.44	2685	3.82	2783	4.21	2878	4.60				
3780	2000	2214	2.18	2328	2.54	2436	2.92	2539	3.29	2638	3.68	2735	4.07	2829	4.46	2922	4.87	3013	5.28	3104	5.71
4158	2200	2342	2.57	2453	2.97	2557	3.37	2655	3.78	2749	4.18	2842	4.61	2930	5.03	3017	5.46	3103	5.90	3187	6.34
4536	2400	2474	3.02	2581	3.44	2680	3.87	2776	4.31	2867	4.75	2955	5.20	3041	5.66	3124	6.12	3205	6.58	3285	7.05
4914	2600	2609	3.52	2711	3.97	2808	4.44	2901	4.91	2989	5.38	3073	5.85	3156	6.34	3236	6.83	3315	7.33	3390	7.81
5292	2800	2745	4.09	2845	4.58	2939	5.07	3027	5.56	3114	6.07	3195	6.57	3275	7.08	3354	7.61	3428	8.12	3503	8.66
5670	3000	2884	4.72	2979	5.23	3070	5.76	3158	6.29	3240	6.82	3322	7.37	3399	7.91	3475	8.46	3548	9.01	3619	9.56
6048	3200	3024	5.42	3117	5.97	3205	6.53	3289	7.08	3371	7.65	3449	8.22	3525	8.80	3598	9.37	3670	10.00	3740	10.50
6426	3400	3167	6.21	3256	6.79	3341	7.37	3424	7.97	3503	8.56	3578	9.15	3653	9.76	3724	10.40	3795	11.00	3863	11.60
6804	3600	3312	7.07	3397	7.68	3480	8.30	3560	8.93	3637	9.55	3712	10.20	3783	10.80	3854	11.50	3922	12.10	3988	12.70
7182	3800	3459	8.03	3541	8.68	3621	9.33	3698	10.00	3772	10.60	3845	11.30	3915	11.90	3984	12.60	4051	13.30	4116	14.00
7560	4000	3607	9.08	3685	9.75	3762	10.40	3837	11.10	3910	11.80	3980	12.50	4050	13.20	4116	13.90	4182	14.60		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## SIZE 3015 DOUBLE WIDTH DOUBLE INLET

## MAXIMUM CLASS OPERATING RPM FAN TEMPERATURE

Wheel Diameter	15.00 inches	381 mm
Wheel Circumference	3.93 feet	1.198 m
Inlet Diameter/Area	16.25 inches dia./2.88 sq. ft.	413 mm/.2676 m <sup>2</sup>
Outlet Size/Area	15.73 x 20.85 inches I.D./2.28 sq. ft.	400 x 530 mm/.2118 m <sup>2</sup>
Tip Speed	3.93 x RPM ft./minute	1.197 x RPM m/minute
Maximum BHP	.339 x (RPM ÷ 1000) <sup>3</sup> BHP	.2528 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3015	-20° to 150°F	-29° to 66°C
CLASS I	2850	
CLASS II	3716	
CLASS III	—	
CLASS IV	—	

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		⅝" SP		¾" SP		⅞" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1818	800	743	0.14	814	0.18	876	0.23	929	0.27	987	0.32	1040	0.37	1094	0.42						
2045	900	804	0.17	867	0.22	927	0.27	979	0.32	1033	0.37	1083	0.43	1132	0.48	1225	0.59				
2272	1000	863	0.22	925	0.27	979	0.32	1033	0.38	1083	0.43	1127	0.49	1174	0.55	1261	0.67	1346	0.79		
2499	1100	924	0.26	984	0.32	1037	0.38	1088	0.44	1135	0.50	1177	0.56	1223	0.62	1304	0.75	1384	0.88	1460	1.02
2726	1200	986	0.32	1040	0.38	1094	0.44	1140	0.50	1188	0.57	1231	0.64	1273	0.70	1350	0.84	1427	0.98	1499	1.12
2954	1300	1049	0.38	1102	0.45	1152	0.51	1199	0.58	1244	0.65	1286	0.72	1325	0.79	1400	0.94	1474	1.09	1543	1.24
3181	1400	1114	0.45	1164	0.52	1213	0.60	1257	0.67	1301	0.75	1341	0.82	1380	0.90	1454	1.05	1524	1.21	1590	1.37
3408	1500	1177	0.53	1226	0.61	1272	0.69	1317	0.77	1358	0.84	1397	0.92	1436	1.01	1507	1.17	1573	1.33	1640	1.50
3635	1600	1244	0.63	1288	0.70	1334	0.79	1375	0.87	1416	0.95	1455	1.04	1491	1.12	1561	1.29	1628	1.47	1691	1.65
3862	1700	1311	0.73	1354	0.82	1396	0.90	1437	0.99	1474	1.07	1511	1.16	1548	1.25	1618	1.44	1682	1.62	1743	1.81
4090	1800	1375	0.84	1420	0.94	1459	1.03	1499	1.12	1536	1.21	1573	1.31	1608	1.40	1675	1.59	1738	1.79	1796	1.98
4317	1900	1444	0.97	1484	1.07	1524	1.17	1561	1.26	1598	1.36	1633	1.46	1667	1.56	1732	1.75	1794	1.96	1852	2.16
4544	2000	1511	1.10	1548	1.20	1585	1.31	1623	1.41	1659	1.52	1693	1.62	1727	1.72	1790	1.93	1851	2.15	1908	2.36
4998	2200	1647	1.42	1683	1.54	1718	1.65	1751	1.76	1784	1.88	1817	1.99	1848	2.10	1908	2.33	1967	2.56	2022	2.79
5453	2400	1787	1.80	1818	1.93	1851	2.05	1882	2.18	1913	2.30	1942	2.42	1972	2.54	2030	2.79	2085	3.04	2138	3.29
5907	2600	1925	2.24	1955	2.38	1984	2.52	2014	2.65	2043	2.79	2071	2.92	2098	3.05	2153	3.31	2205	3.58	2257	3.85
6362	2800	2065	2.76	2092	2.90	2119	3.05	2147	3.20	2174	3.34	2201	3.49	2227	3.63	2279	3.91	2329	4.20	2377	4.48
6816	3000	2205	3.34	2230	3.50	2256	3.66	2282	3.82	2306	3.97	2332	4.13	2357	4.28	2405	4.58	2454	4.89	2501	5.20
7270	3200	2345	4.01	2370	4.19	2393	4.35	2418	4.52	2440	4.68	2465	4.85	2488	5.01	2536	5.35	2580	5.66	2625	5.99
7725	3400	2486	4.76	2508	4.94	2532	5.13	2554	5.31	2576	5.48	2599	5.66	2621	5.83	2666	6.19	2709	6.53	2751	6.87
8179	3600	2626	5.60	2648	5.80	2669	5.99	2692	6.19	2713	6.38	2734	6.56	2755	6.75	2797	7.12	2839	7.49	2879	7.85
8634	3800	2768	6.54	2788	6.75	2809	6.96	2829	7.16	2849	7.35	2870	7.56	2890	7.76	2929	8.14	2969	8.53	3009	8.93
9088	4000	2910	7.59	2929	7.80	2948	8.02	2968	8.24	2986	8.44	3006	8.66	3025	8.86	3063	9.28	3102	9.70	3139	10.10

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2499	1100	1536	1.16																		
2726	1200	1571	1.27																		
2954	1300	1610	1.39	1742	1.72																
3181	1400	1655	1.53	1779	1.87	1899	2.22														
3408	1500	1702	1.68	1821	2.03	1935	2.39														
3635	1600	1751	1.83	1865	2.20	1976	2.58	2082	2.97												
3862	1700	1802	2.00	1914	2.39	2019	2.78	2122	3.18	2222	3.60										
4090	1800	1854	2.18	1963	2.58	2066	2.99	2165	3.41	2262	3.85	2356	4.29								
4317	1900	1908	2.37	2014	2.79	2114	3.22	2211	3.66	2304	4.11	2396	4.57	2485	5.04	2573	5.52				
4544	2000	1963	2.58	2067	3.02	2165	3.46	2259	3.92	2350	4.39	2438	4.86	2523	5.34	2609	5.84	2693	6.34		
4998	2200	2075	3.03	2175	3.51	2269	3.99	2358	4.48	2445	4.98	2528	5.48	2610	6.00	2689	6.52	2768	7.05	2845	7.59
5453	2400	2189	3.54	2285	4.05	2377	4.58	2464	5.11	2547	5.64	2626	6.18	2704	6.73	2781	7.29	2855	7.85	2928	8.42
5907	2600	2306	4.12	2399	4.67	2487	5.23	2571	5.79	2652	6.37	2730	6.95	2804	7.53	2877	8.12	2948	8.71	3019	9.32
6362	2800	2425	4.78	2514	5.35	2601	5.96	2683	6.56	2761	7.17	2835	7.78	2908	8.40	2979	9.03	3047	9.65	3115	10.30
6816	3000	2545	5.50	2633	6.13	2716	6.76	2796	7.40	2871	8.04	2944	8.69	3015	9.35	3084	10.00	3151	10.70	3216	11.40
7270	3200	2669	6.32	2754	6.99	2833	7.64	2911	8.33	2984	9.00	3056	9.70	3125	10.40	3192	11.10	3256	11.80	3320	12.50
7725	3400	2793	7.22	2874	7.92	2953	8.63	3027	9.33	3099	10.10	3169	10.80	3237	11.50	3301	12.20	3365	13.00	3427	13.70
8179	3600	2920	8.22	2998	8.96	3073	9.70	3146	10.40	3216	11.20	3284	12.00	3349	12.70	3414	13.50	3476	14.30	3536	15.10
8634	3800	3047	9.31	3121	10.10	3196	10.90	3265	11.60	3334	12.40	3400	13.20	3465	14.00	3526	14.80	3587	15.70	3647	16.50
9088	4000	3176	10.50	3248	11.30	3318	12.10	3388	13.00	3453	13.80	3518	14.60	3581	15.50	3642	16.30	3701	17.20		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■

Refer to factors on page 54 to convert numbers above to the desired metric units.

The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.

For minimum motor size required see "Fan Starting Requirements," page 9.

If the Maximum Safe Operating RPM is not shown, consult the factory.

Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.

Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# 3000 SERIES

## SIZE 3016

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3016	-20° to 150°F	-29° to 66°C
CLASS I	2616	
CLASS II	3410	
CLASS III	—	
CLASS IV	—	

Wheel Diameter	16.50 inches	419 mm
Wheel Circumference	4.32 feet	1.317 m
Inlet Diameter/Area	18.25 inches dia./3.64 sq. ft.	463 mm/.3382 m <sup>2</sup>
Outlet Size/Area	17.23 x 23.04 inches I.D./2.76 sq. ft.	438 x 585 mm/.2564 m <sup>2</sup>
Tip Speed	4.32 x RPM ft./minute	1.316 x RPM m/minute
Maximum BHP	.546 x (RPM ÷ 1000) <sup>3</sup> BHP	.4072 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2228	800	129	1.98	141	2.59	152	3.18	164	3.89	174	4.50	186	5.31	196	6.01		
2507	900	139	2.45	149	3.07	160	3.78	171	4.54	180	5.19	191	6.04	201	6.85	219	8.40
2785	1000	791	0.27	848	0.33	898	0.40	943	0.46	989	0.53	1032	0.60	1073	0.67	1151	0.82
3064	1100	848	0.33	898	0.39	950	0.47	996	0.54	1038	0.62	1079	0.69	1117	0.77	1192	0.92
3342	1200	905	0.40	955	0.47	1000	0.54	1046	0.63	1088	0.71	1125	0.78	1165	0.87	1236	1.04
3621	1300	964	0.48	1012	0.56	1057	0.64	1099	0.72	1137	0.80	1178	0.90	1214	0.98	1282	1.16
3899	1400	1023	0.57	1068	0.65	1112	0.74	1153	0.83	1191	0.92	1228	1.01	1262	1.10	1330	1.29
4178	1500	1080	0.66	1125	0.76	1167	0.85	1205	0.95	1245	1.05	1281	1.15	1315	1.24	1380	1.44
4456	1600	1143	0.78	1182	0.88	1224	0.98	1262	1.08	1299	1.19	1333	1.29	1367	1.39	1431	1.61
4735	1700	1205	0.91	1244	1.02	1282	1.12	1319	1.23	1353	1.34	1387	1.44	1420	1.56	1482	1.78
5013	1800	1266	1.05	1304	1.17	1340	1.28	1375	1.39	1409	1.50	1442	1.62	1474	1.74	1534	1.97
5292	1900	1329	1.21	1364	1.33	1398	1.45	1432	1.57	1466	1.69	1498	1.81	1529	1.93	1588	2.18
5570	2000	1391	1.39	1425	1.51	1458	1.64	1491	1.76	1523	1.89	1554	2.01	1583	2.14	1641	2.40
6127	2200	1517	1.79	1548	1.93	1579	2.07	1610	2.21	1639	2.34	1667	2.47	1696	2.61	1750	2.89
6684	2400	1644	2.26	1673	2.42	1702	2.57	1728	2.71	1757	2.87	1785	3.02	1811	3.17	1863	3.47
7241	2600	1772	2.82	1798	2.98	1824	3.14	1850	3.31	1875	3.47	1903	3.64	1928	3.80	1977	4.13
7798	2800	1901	3.46	1926	3.65	1949	3.82	1974	4.00	1998	4.17	2022	4.35	2046	4.53	2091	4.86
8355	3000	2029	4.19	2053	4.40	2076	4.59	2098	4.78	2121	4.97	2144	5.16	2166	5.34	2210	5.72
8912	3200	2159	5.03	2180	5.24	2202	5.45	2223	5.65	2245	5.86	2267	6.07	2287	6.26	2329	6.67
9469	3400	2288	5.97	2309	6.21	2329	6.43	2349	6.64	2370	6.87	2389	7.07	2410	7.30	2450	7.73
10026	3600	2419	7.05	2437	7.27	2456	7.51	2476	7.75	2495	7.98	2514	8.21	2534	8.45	2571	8.89
10583	3800	2548	8.21	2567	8.48	2585	8.72	2603	8.97	2621	9.21	2639	9.46	2658	9.71	2694	10.20
11140	4000	2679	9.53	2696	9.79	2713	10.10	2731	10.30	2748	10.60	2766	10.80	2783	11.10	2817	11.60

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3064	1100	1402	1.43																		
3342	1200	1432	1.56																		
3621	1300	1471	1.72	1588	2.11																
3899	1400	1512	1.88	1623	2.29	1732	2.72														
4178	1500	1555	2.06	1663	2.49	1766	2.93	1868	3.40												
4456	1600	1602	2.26	1705	2.71	1804	3.17	1901	3.65	1995	4.14										
4735	1700	1648	2.46	1749	2.93	1845	3.42	1938	3.92	2028	4.42	2118	4.96								
5013	1800	1697	2.69	1796	3.18	1889	3.69	1978	4.20	2065	4.73	2149	5.26	2234	5.83						
5292	1900	1747	2.93	1843	3.44	1933	3.97	2021	4.51	2105	5.05	2187	5.61	2268	6.19	2347	6.77				
5570	2000	1797	3.18	1891	3.72	1980	4.27	2065	4.83	2147	5.40	2226	5.97	2304	6.56	2380	7.16	2456	7.78		
6127	2200	1901	3.75	1991	4.33	2077	4.93	2157	5.52	2236	6.14	2311	6.75	2385	7.38	2456	8.01	2527	8.66	2597	9.32
6684	2400	2006	4.39	2094	5.02	2177	5.66	2255	6.31	2330	6.96	2402	7.62	2472	8.28	2542	8.98	2608	9.65	2673	10.30
7241	2600	2114	5.11	2199	5.79	2279	6.47	2355	7.17	2428	7.87	2497	8.57	2565	9.28	2631	10.00	2695	10.70	2759	11.50
7798	2800	2224	5.93	2306	6.65	2384	7.38	2457	8.11	2528	8.86	2596	9.61	2661	10.40	2726	11.10	2787	11.90	2848	12.70
8355	3000	2336	6.85	2415	7.61	2489	8.37	2562	9.17	2630	9.95	2696	10.70	2761	11.60	2822	12.40	2883	13.20	2942	14.00
8912	3200	2450	7.87	2526	8.68	2598	9.49	2668	10.30	2735	11.20	2800	12.00	2862	12.80	2922	13.70	2980	14.50	3038	15.40
9469	3400	2564	8.99	2637	9.84	2709	10.70	2776	11.60	2841	12.50	2904	13.40	2964	14.20	3024	15.10	3082	16.10	3137	17.00
10026	3600	2681	10.20	2752	11.20	2819	12.00	2885	13.00	2949	13.90	3010	14.80	3069	15.80	3127	16.70	3184	17.70	3238	18.60
10583	3800	2798	11.60	2867	12.60	2933	13.50	2996	14.50	3058	15.50	3118	16.40	3176	17.40	3232	18.40	3287	19.40	3341	20.40
11140	4000	2918	13.10	2983	14.10	3046	15.10	3109	16.10	3168	17.10	3227	18.20	3283	19.20	3338	20.20	3392	21.30		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## SIZE 3018 DOUBLE WIDTH DOUBLE INLET

## MAXIMUM CLASS OPERATING RPM FAN TEMPERATURE

Wheel Diameter	18.25 inches	464 mm
Wheel Circumference	4.78 feet	1.457 m
Inlet Diameter/Area	20.0 inches dia./4.36 sq. ft.	508 mm/4051 m <sup>2</sup>
Outlet Size/Area	19.04 x 25.73 inches I.D./3.40 sq. ft.	484 x 654 mm/3159 m <sup>2</sup>
Tip Speed	4.78 x RPM ft/minute	1.457 x RPM m/minute
Maximum BHP	.965 x (RPM ÷ 1000) <sup>3</sup> BHP	.7196 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3018	-20° to 150°F -29° to 66°C
CLASS I	2198
CLASS II	2866
CLASS III	—
CLASS IV	—

VOL CFM	OUT VEL	STATIC PRESSURE IN INCHES W.G.															
		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2714	800	577	0.20	634	0.26	684	0.33	731	0.40	779	0.47	827	0.55	875	0.64		
3053	900	620	0.24	674	0.32	723	0.39	767	0.46	809	0.54	851	0.62	894	0.71	979	0.90
3392	1000	688	0.30	715	0.38	763	0.46	806	0.54	846	0.62	884	0.70	920	0.79	998	0.98
3731	1100	716	0.37	758	0.45	803	0.53	846	0.63	885	0.72	921	0.80	956	0.89	1023	1.08
4070	1200	765	0.44	806	0.53	845	0.62	886	0.72	924	0.82	960	0.92	994	1.01	1058	1.21
4410	1300	815	0.53	854	0.62	890	0.72	927	0.82	965	0.93	1000	1.04	1033	1.14	1096	1.35
4749	1400	866	0.63	903	0.73	937	0.83	970	0.94	1006	1.05	1040	1.16	1073	1.28	1134	1.51
5088	1500	917	0.74	952	0.85	986	0.96	1017	1.07	1048	1.18	1081	1.30	1113	1.42	1174	1.68
5427	1600	968	0.87	1002	0.99	1034	1.10	1065	1.22	1094	1.34	1123	1.46	1155	1.59	1214	1.85
5766	1700	1019	1.01	1053	1.14	1084	1.26	1113	1.38	1141	1.50	1168	1.63	1196	1.76	1252	2.04
6106	1800	1071	1.17	1104	1.30	1134	1.43	1162	1.56	1189	1.69	1215	1.82	1240	1.95	1295	2.24
6445	1900	1123	1.34	1155	1.48	1184	1.62	1211	1.76	1238	1.90	1263	2.03	1288	2.17	1337	2.46
6784	2000	1176	1.53	1206	1.68	1235	1.83	1261	1.97	1287	2.12	1311	2.26	1335	2.40	1381	2.70
7462	2200	1281	1.97	1309	2.13	1336	2.30	1362	2.46	1386	2.62	1409	2.77	1432	2.93	1476	3.26
8141	2400	1388	2.49	1414	2.67	1439	2.84	1464	3.03	1487	3.21	1509	3.38	1531	3.55	1572	3.89
8819	2600	1495	3.10	1519	3.29	1543	3.48	1566	3.68	1588	3.87	1610	4.07	1630	4.25	1670	4.62
9498	2800	1603	3.80	1626	4.01	1648	4.22	1670	4.43	1691	4.64	1712	4.85	1732	5.06	1769	5.45
10176	3000	1711	4.61	1732	4.83	1753	5.05	1774	5.28	1794	5.50	1814	5.73	1833	5.95	1870	6.40
10854	3200	1819	5.53	1839	5.76	1859	6.00	1879	6.24	1898	6.48	1917	6.72	1935	6.96	1971	7.44
11533	3400	1928	6.57	1947	6.82	1966	7.07	1985	7.33	2003	7.58	2021	7.83	2038	8.08	2073	8.60
12211	3600	2037	7.74	2055	8.00	2073	8.26	2091	8.53	2108	8.80	2125	9.06	2142	9.33	2175	9.87
12890	3800	2146	9.04	2163	9.31	2180	9.59	2197	9.87	2214	10.15	2230	10.43	2247	10.72	2278	11.28
13568	4000	2255	10.47	2272	10.77	2288	11.06	2304	11.35	2320	11.64	2366	11.95	2352	12.25	2382	12.84

VOL CFM	OUT VEL	STATIC PRESSURE IN INCHES W.G.															
		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2714	800																
3053	900																
3392	1000																
3731	1100																
4070	1200	1248	1.90														
4410	1300	1271	2.04	1389	2.58												
4749	1400	1297	2.21	1409	2.76	1518	3.35										
5088	1500	1332	2.41	1433	2.95	1535	3.55	1638	4.20								
5427	1600	1369	2.63	1462	3.17	1559	3.78	1654	4.43	1750	5.12						
5766	1700	1407	2.87	1497	3.42	1584	4.02	1677	4.68	1766	5.38	1857	6.12				
6106	1800	1446	3.13	1535	3.71	1618	4.31	1702	4.96	1789	5.67	1872	6.40	1959	7.20		
6445	1900	1486	3.40	1573	4.01	1654	4.63	1732	5.28	1813	5.98	1895	6.73	1974	7.51	2056	8.34
6784	2000	1526	3.67	1612	4.33	1692	4.97	1767	5.63	1841	6.33	1919	7.08	1997	7.88	2072	8.69
7462	2200	1607	4.28	1691	5.00	1769	5.73	1843	6.44	1912	7.15	1980	7.90	2047	8.68	2119	9.52
8141	2400	1690	4.96	1772	5.74	1849	6.54	1920	7.33	1989	8.10	2053	8.87	2116	9.67	2178	10.50
8819	2600	1780	5.76	1855	6.57	1929	7.41	2000	8.28	2067	9.15	2130	9.97	2191	10.81	2250	11.66
9498	2800	1875	6.67	1940	7.50	2012	8.39	2081	9.30	2146	10.22	2209	11.17	2269	12.07	2326	12.96
10176	3000	1971	7.68	2034	8.56	2095	9.45	2163	10.43	2227	11.40	2288	12.38	2347	13.39	2404	14.38
10854	3200	2069	8.82	2129	9.74	2187	10.68	2246	11.65	2309	12.68	2369	13.72	2427	14.78	2483	15.85
11533	3400	2168	10.08	2226	11.04	2282	12.03	2336	13.04	2393	14.09	2452	15.19	2508	16.28	2563	17.40
12211	3600	2267	11.45	2324	12.49	2378	13.52	2430	14.57	2481	15.64	2535	16.76	2591	17.92	2645	19.09
12890	3800	2368	12.98	2423	14.07	2475	15.15	2526	16.25	2575	17.36	2623	18.50	2675	19.69	2727	20.89
13568	4000	2469	14.65	2522	15.78	2574	16.94	2623	18.08	2671	19.25	2717	20.42	2762	21.60	2811	22.84

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I ☐ CL. II ☐ CL. III ☐ CL. IV ☐

Refer to factors on page 54 to convert numbers above to the desired metric units.

The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.

For minimum motor size required see "Fan Starting Requirements," page 9.

If the Maximum Safe Operating RPM is not shown, consult the factory.

**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**

**Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.**

**All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).**

# 3000 SERIES

## SIZE 3020

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3020	-20° to 150°F -29° to 66°C
CLASS I	2031
CLASS II	2648
CLASS III	—
CLASS IV	—

DOUBLE WIDTH  
DOUBLE INLET

Wheel Diameter	20.00 inches	508 mm
Wheel Circumference	5.24 feet	1.597 m
Inlet Diameter/Area	21.75 inches dia./5.16 sq. ft.	552 mm/.4794 m <sup>2</sup>
Outlet Size/Area	20.98 x 28.29 inches I.D./4.12 sq. ft.	533 x 719 mm/.3828 m <sup>2</sup>
Tip Speed	5.24 x RPM ft./minute	1.597 x RPM m/minute
Maximum BHP	1.522 x (RPM ÷ 1000) <sup>3</sup> BHP	1.135 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3318	800	535	0.23	588	0.31	636	0.38	680	0.46	723	0.54	765	0.62	803	0.70		
3732	900	574	0.29	624	0.37	670	0.45	712	0.54	750	0.62	792	0.71	829	0.80	902	0.99
4147	1000	615	0.35	662	0.44	706	0.53	747	0.63	786	0.72	821	0.81	856	0.91	925	1.11
4562	1100	658	0.43	703	0.53	741	0.62	783	0.73	820	0.83	855	0.93	889	1.04	953	1.25
																1015	1.47
																1075	1.70
4976	1200	702	0.51	741	0.61	783	0.73	821	0.84	856	0.95	890	1.06	922	1.17	984	1.40
5391	1300	747	0.61	786	0.73	821	0.84	859	0.97	891	1.08	926	1.21	958	1.33	1017	1.57
5806	1400	793	0.73	829	0.85	864	0.97	899	1.10	932	1.23	962	1.36	994	1.49	1050	1.74
6220	1500	839	0.85	873	0.98	906	1.12	939	1.25	971	1.39	1002	1.53	1031	1.67	1086	1.94
																1139	2.22
																1191	2.51
6635	1600	886	1.00	918	1.13	950	1.28	980	1.42	1012	1.57	1041	1.72	1068	1.86	1124	2.16
7050	1700	934	1.16	964	1.30	994	1.45	1024	1.61	1053	1.76	1081	1.92	1109	2.08	1162	2.39
7465	1800	982	1.34	1011	1.50	1039	1.65	1067	1.81	1095	1.97	1121	2.13	1147	2.29	1200	2.63
7879	1900	1031	1.54	1057	1.70	1085	1.87	1111	2.03	1138	2.20	1164	2.38	1190	2.55	1239	2.90
																1287	3.25
																1333	3.60
8294	2000	1080	1.77	1103	1.92	1130	2.10	1156	2.27	1181	2.45	1207	2.64	1231	2.81	1279	3.18
9123	2200	1178	2.28	1200	2.45	1224	2.64	1247	2.82	1270	3.01	1294	3.22	1315	3.40	1362	3.82
9953	2400	1277	2.88	1298	3.07	1320	3.28	1341	3.48	1362	3.68	1383	3.89	1403	4.09	1446	4.53
10782	2600	1377	3.59	1396	3.80	1416	4.01	1435	4.22	1455	4.45	1474	4.66	1494	4.89	1533	5.35
																1571	5.81
																1610	6.30
11612	2800	1478	4.43	1495	4.64	1513	4.86	1531	5.09	1549	5.32	1568	5.57	1586	5.81	1622	6.29
12441	3000	1578	5.37	1595	5.61	1611	5.84	1628	6.08	1644	6.32	1662	6.58	1679	6.83	1712	7.34
13270	3200	1679	6.45	1695	6.70	1710	6.95	1726	7.21	1742	7.47	1757	7.72	1773	7.99	1805	8.53
14100	3400	1780	7.67	1794	7.92	1809	8.19	1824	8.47	1839	8.74	1854	9.02	1869	9.30	1899	9.87
																1929	10.50
																1959	11.00
14929	3600	1882	9.05	1895	9.31	1909	9.59	1923	9.88	1937	10.20	1951	10.50	1965	10.70	1993	11.30
15759	3800	1983	10.60	1997	10.90	2009	11.10	2022	11.40	2035	11.70	2049	12.10	2062	12.40	2088	13.00
16588	4000	2086	12.30	2097	12.60	2110	12.90	2122	13.20	2134	13.50	2147	13.80	2160	14.10	2185	14.80
																2210	15.40
																2236	16.10

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4976	1200	1155	2.12																		
5391	1300	1180	2.32	1282	2.87																
5806	1400	1208	2.54	1305	3.11																
6220	1500	1239	2.79	1332	3.37	1421	3.98														
6635	1600	1271	3.05	1361	3.66	1447	4.29	1531	4.96												
7050	1700	1305	3.33	1393	3.97	1476	4.63	1555	5.30	1633	6.01										
7465	1800	1341	3.64	1426	4.31	1506	4.99	1584	5.69	1659	6.42	1732	7.17								
7879	1900	1376	3.95	1459	4.65	1538	5.37	1613	6.10	1686	6.84	1757	7.61	1826	8.40						
8294	2000	1412	4.28	1494	5.03	1571	5.77	1644	6.52	1715	7.30	1783	8.08	1851	8.90	1917	9.73				
9123	2200	1488	5.02	1567	5.84	1640	6.65	1711	7.48	1778	8.30	1843	9.13	1907	10.00	1968	10.80	2030	11.80	2090	12.70
9953	2400	1567	5.86	1642	6.75	1712	7.62	1780	8.51	1845	9.40	1907	10.30	1968	11.20	2027	12.10	2086	13.10	2143	14.00
10782	2600	1647	6.78	1719	7.74	1787	8.69	1853	9.66	1915	10.60	1975	11.60	2035	12.60	2091	13.50	2148	14.50	2201	15.50
11612	2800	1729	7.80	1798	8.84	1864	9.87	1927	10.90	1988	11.90	2047	13.00	2103	14.00	2159	15.10	2213	16.10	2265	17.20
12441	3000	1814	8.95	1879	10.00	1943	11.20	2004	12.30	2063	13.40	2119	14.50	2175	15.60	2229	16.70	2281	17.80	2332	18.90
13270	3200	1900	10.20	1963	11.40	2024	12.60	2082	13.70	2140	14.90	2194	16.10	2248	17.30	2300	18.50	2351	19.60	2401	20.80
14100	3400	1989	11.70	2048	12.90	2106	14.10	2163	15.40	2218	16.60	2271	17.90	2324	19.10	2374	20.40	2424	21.60	2472	22.90
14929	3600	2079	13.20	2134	14.50	2190	15.80	2245	17.10	2298	18.40	2350	19.80	2401	21.10	2450	22.40	2498	23.70	2546	25.10
15759	3800	2170	14.90	2223	16.30	2276	17.60	2328	19.00	2380	20.40	2430	21.80	2479	23.20	2527	24.60	2575	26.00	2621	27.40
16588	4000	2261	16.80	2313	18.20	2363	19.60	2413	21.10	2463	22.50	2511	24.00	2559	25.50	2606	26.90				

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
Performance certified for Installation Type B - Free Inlet, Ducted Outlet.  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## SIZE 3022 DOUBLE WIDTH DOUBLE INLET

## MAXIMUM CLASS OPERATING RPM FAN TEMPERATURE

Wheel Diameter	22.25 inches	565 mm
Wheel Circumference	5.83 feet	1.777 m
Inlet Diameter/Area	24.0 inches dia./6.28 sq. ft.	610 mm/.5834 m <sup>2</sup>
Outlet Size/Area	23.29 x 30.98 inches I.D./5.01 sq. ft.	592 x 787 mm/.4654 m <sup>2</sup>
Tip Speed	5.83 x RPM ft./minute	1.777 x RPM m/minute
Maximum BHP	2.594 x (RPM ÷ 1000) <sup>3</sup> BHP	1.934 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3022	-20° to 150°F -29° to 66°C
CLASS I	1810
CLASS II	2359
CLASS III	—
CLASS IV	—

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		⅝" SP		¾" SP		⅞" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4055	800	477	0.28	525	0.37	566	0.46	609	0.56	648	0.65	684	0.75	723	0.87						
4562	900	511	0.35	558	0.45	598	0.55	637	0.65	674	0.76	709	0.87	743	0.98	809	1.21				
5069	1000	549	0.43	590	0.53	629	0.64	668	0.76	702	0.88	735	0.99	767	1.11	829	1.36	889	1.62	948	1.90
5576	1100	586	0.51	627	0.64	664	0.76	699	0.88	731	1.00	763	1.13	794	1.26	853	1.52	909	1.79	963	2.07
6083	1200	625	0.62	661	0.74	698	0.88	731	1.01	763	1.15	794	1.29	824	1.43	880	1.70	933	1.99	983	2.27
6590	1300	664	0.73	700	0.88	734	1.02	767	1.17	797	1.31	826	1.46	856	1.61	909	1.90	959	2.20	1009	2.51
7097	1400	705	0.87	738	1.02	771	1.18	801	1.33	831	1.49	860	1.65	888	1.81	940	2.13	989	2.45	1036	2.77
7603	1500	746	1.02	778	1.19	808	1.35	837	1.51	865	1.68	894	1.86	920	2.02	971	2.36	1019	2.70	1065	3.05
8110	1600	789	1.20	817	1.36	846	1.54	873	1.71	902	1.90	928	2.07	955	2.26	1003	2.61	1051	2.99	1095	3.35
8617	1700	830	1.39	857	1.56	885	1.75	912	1.94	938	2.13	964	2.32	989	2.51	1037	2.90	1082	3.28	1124	3.65
9124	1800	873	1.61	899	1.79	925	1.99	951	2.19	975	2.38	1000	2.58	1025	2.79	1071	3.19	1115	3.60	1157	4.00
9631	1900	916	1.85	940	2.04	965	2.24	989	2.44	1014	2.66	1037	2.86	1061	3.08	1106	3.51	1148	3.93	1190	4.37
10138	2000	959	2.11	983	2.32	1006	2.52	1029	2.74	1052	2.95	1075	3.18	1098	3.41	1140	3.84	1183	4.30	1224	4.76
11152	2200	1046	2.72	1068	2.94	1089	3.17	1109	3.39	1131	3.63	1152	3.87	1172	4.10	1213	4.60	1253	5.10	1291	5.59
12166	2400	1135	3.45	1154	3.68	1173	3.92	1192	4.17	1211	4.41	1231	4.68	1250	4.94	1289	5.48	1326	6.01	1362	6.54
13179	2600	1224	4.31	1241	4.55	1258	4.80	1276	5.07	1294	5.34	1312	5.61	1329	5.88	1365	6.45	1400	7.02	1435	7.61
14193	2800	1312	5.28	1328	5.54	1345	5.83	1360	6.09	1378	6.39	1394	6.67	1411	6.97	1444	7.57	1478	8.20	1510	8.81
15207	3000	1402	6.42	1417	6.71	1431	6.98	1447	7.28	1463	7.60	1478	7.90	1493	8.20	1525	8.85	1555	9.48	1586	10.10
16221	3200	1492	7.72	1505	8.00	1519	8.30	1533	8.61	1548	8.94	1562	9.26	1577	9.60	1606	10.30	1635	10.90	1664	11.60
17235	3400	1581	9.16	1595	9.50	1607	9.79	1621	10.10	1634	10.50	1648	10.80	1662	11.20	1689	11.90	1717	12.60	1743	13.30
18248	3600	1671	10.80	1684	11.10	1696	11.50	1709	11.80	1721	12.20	1734	12.50	1746	12.90	1772	13.60	1798	14.40	1824	15.10
19262	3800	1761	12.60	1773	13.00	1785	13.30	1797	13.70	1809	14.10	1820	14.40	1833	14.80	1857	15.60	1882	16.40	1906	17.10
20276	4000	1852	14.60	1863	15.00	1874	15.40	1886	15.80	1897	16.20	1908	16.50	1919	16.90	1942	17.70	1966	18.60	1989	19.40

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6083	1200	1035	2.59																		
6590	1300	1057	2.84																		
7097	1400	1081	3.10	1169	3.79																
7603	1500	1109	3.40	1193	4.12	1273	4.86														
8110	1600	1137	3.71	1218	4.46	1296	5.24	1371	6.05												
8617	1700	1167	4.05	1246	4.83	1321	5.64	1393	6.47	1464	7.35										
9124	1800	1198	4.41	1274	5.22	1348	6.08	1418	6.94	1485	7.82	1552	8.75								
9631	1900	1230	4.80	1305	5.66	1375	6.52	1444	7.43	1509	8.33	1573	9.28	1636	10.30						
10138	2000	1262	5.20	1335	6.10	1404	7.01	1470	7.93	1535	8.89	1596	9.84	1658	10.90	1718	11.90				
11152	2200	1329	6.10	1399	7.08	1466	8.08	1529	9.08	1590	10.10	1649	11.10	1706	12.20	1763	13.20	1818	14.30	1873	15.50
12166	2400	1397	7.08	1465	8.16	1529	9.24	1591	10.30	1649	11.40	1706	12.50	1761	13.60	1815	14.80	1867	15.90	1919	17.10
13179	2600	1469	8.20	1533	9.36	1595	10.50	1654	11.70	1711	12.90	1766	14.10	1819	15.30	1871	16.50	1921	17.70	1970	18.90
14193	2800	1541	9.42	1604	10.70	1663	11.90	1720	13.20	1776	14.50	1828	15.70	1879	17.00	1930	18.30	1978	19.60	2026	20.90
15207	3000	1617	10.80	1676	12.20	1733	13.50	1788	14.80	1842	16.20	1893	17.60	1943	18.90	1991	20.30	2038	21.60	2085	23.00
16221	3200	1693	12.30	1750	13.80	1805	15.20	1857	16.60	1909	18.10	1960	19.50	2008	21.00	2055	22.40	2101	23.90	2146	25.30
17235	3400	1771	14.00	1824	15.50	1877	17.00	1929	18.60	1978	20.10	2027	21.60	2074	23.20	2120	24.70	2165	26.20	2209	27.80
18248	3600	1850	15.90	1901	17.50	1952	19.10	2001	20.70	2049	22.30	2096	23.90	2142	25.50	2187	27.20	2231	28.80	2273	30.40
19262	3800	1930	17.90	1979	19.60	2028	21.30	2075	23.00	2122	24.70	2167	26.40	2212	28.10	2255	29.80	2298	31.50	2339	33.20
20276	4000	2012	20.20	2059	21.90	2105	23.70	2151	25.50	2195	27.20	2239	29.00	2283	30.80	2325	32.60				

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.**  
**Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.**  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# 3000 SERIES

## SIZE 3024

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3024	-20° to 150°F -29° to 66°C
CLASS I	1553
CLASS II	2024
CLASS III	—
CLASS IV	—

Wheel Diameter	24.50 inches	622 mm
Wheel Circumference	6.41 feet	1.954 m
Inlet Diameter/Area	27.0 inches dia./7.96 sq. ft.	686 mm/.7395 m <sup>2</sup>
Outlet Size/Area	25.60 x 34.38 inches I.D./6.11 sq. ft.	650 x 873 mm/.5676 m <sup>2</sup>
Tip Speed	6.41 x RPM ft./minute	1.954 x RPM m/minute
Maximum BHP	4.519 x (RPM ÷ 1000) <sup>3</sup> BHP	3.370 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.															
		1" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4960	800	427	0.35	468	0.46	505	0.57	540	0.69	577	0.94	629	1.08	679	1.38		
5580	900	459	0.43	498	0.55	533	0.67	566	0.80	604	1.08	653	1.23	706	1.56		
6200	1000	492	0.53	529	0.66	563	0.80	594	0.93	624	1.08	680	1.39				
6820	1100	527	0.64	561	0.79	594	0.94	624	1.08	652	1.23	706	1.56	755	1.89		
7440	1200	561	0.77	595	0.93	625	1.10	655	1.26	682	1.42	708	1.58	733	1.75	781	2.11
8060	1300	598	0.92	629	1.10	658	1.27	686	1.45	713	1.62	738	1.79	762	1.97	808	2.34
8680	1400	637	1.10	663	1.28	692	1.47	718	1.66	744	1.85	768	2.03	792	2.22	836	2.60
9300	1500	675	1.30	698	1.48	726	1.68	751	1.89	776	2.10	800	2.29	822	2.49	865	2.89
9920	1600	714	1.53	736	1.72	760	1.92	785	2.14	809	2.36	831	2.58	854	2.79	896	3.21
10540	1700	754	1.78	774	1.98	795	2.19	819	2.42	842	2.65	864	2.89	885	3.12	927	3.56
11160	1800	793	2.06	813	2.27	831	2.49	854	2.72	876	2.97	897	3.21	918	3.46	958	3.94
11780	1900	833	2.37	852	2.59	869	2.82	889	3.06	910	3.31	931	3.57	951	3.83	990	4.36
12400	2000	873	2.71	891	2.95	908	3.19	925	3.43	945	3.69	965	3.96	985	4.23	1022	4.78
13040	2200	953	3.50	970	3.76	986	4.02	1001	4.28	1016	4.55	1034	4.84	1053	5.13	1089	5.73
14880	2400	1034	4.44	1049	4.72	1064	5.01	1079	5.29	1093	5.58	1107	5.87	1123	6.17	1157	6.82
16120	2600	1115	5.55	1130	5.85	1144	6.15	1157	6.46	1170	6.77	1184	7.08	1196	7.39	1226	8.06
17360	2800	1197	6.82	1210	7.15	1223	7.47	1236	7.80	1249	8.13	1261	8.47	1273	8.80	1297	9.48
18600	3000	1279	8.29	1291	8.64	1303	8.99	1316	9.34	1327	9.69	1339	10.04	1351	10.40	1373	11.12
19840	3200	1361	9.96	1372	10.33	1384	10.70	1395	11.07	1407	11.45	1418	11.82	1429	12.20	1450	12.96
21080	3400	1443	11.85	1454	12.24	1465	12.63	1476	13.03	1487	13.42	1497	13.82	1508	14.22	1528	15.03
22320	3600	1525	13.96	1536	14.38	1546	14.79	1556	15.21	1567	15.63	1577	16.05	1587	16.47	1606	17.32
23560	3800	1607	16.32	1617	16.76	1627	17.20	1637	17.64	1647	18.08	1657	18.52	1666	18.96	1685	19.86
24800	4000	1690	18.94	1699	19.40	1709	19.86	1718	20.32	1728	20.78	1737	21.25	1746	21.71	1764	22.65

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.															
		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9300	1500	983	4.20	1062	5.17												
9920	1600	1010	4.57	1079	5.54												
10540	1700	1037	4.96	1106	5.97	1169	7.02										
11160	1800	1066	5.39	1132	6.44	1195	7.52	1259	8.67								
11780	1900	1095	5.87	1160	6.93	1221	8.06	1279	9.21	1344	10.47						
12400	2000	1126	6.38	1188	7.46	1248	8.63	1305	9.82	1359	11.05	1424	12.40				
13040	2200	1188	7.51	1248	8.68	1304	9.87	1359	11.14	1412	12.45	1462	13.78	1510	15.14	1573	16.68
14880	2400	1251	8.79	1309	10.05	1364	11.33	1415	12.63	1466	14.00	1515	15.42	1562	16.86	1608	18.32
16120	2600	1316	10.19	1372	11.59	1425	12.96	1475	14.35	1523	15.75	1570	17.21	1616	18.73	1661	20.28
17360	2800	1383	11.74	1436	13.29	1488	14.77	1537	16.25	1583	17.74	1628	19.25	1671	20.79	1715	22.42
18600	3000	1451	13.47	1503	15.11	1551	16.78	1599	18.35	1645	19.93	1689	21.53	1731	23.14	1771	24.77
19840	3200	1520	15.40	1570	17.13	1617	18.89	1663	20.65	1707	22.32	1750	24.01	1792	25.71	1831	27.43
21080	3400	1590	17.53	1638	19.35	1684	21.21	1728	23.08	1771	24.95	1813	26.72	1853	28.51	1892	30.32
22320	3600	1662	19.91	1707	21.80	1752	23.74	1795	25.71	1836	27.70	1876	29.67	1916	31.55	1954	33.44
23560	3800	1739	22.57	1777	24.48	1821	26.52	1862	28.58	1903	30.66	1941	32.77	1979	34.84	2017	36.82
24800	4000	1816	25.50	1849	27.43	1890	29.53	1930	31.69	1970	33.86	2008	36.06				

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
**Performance certified for Installation Type B - Free Inlet, Ducted Outlet.**  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

**SIZE 3027** DOUBLE WIDTH  
DOUBLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	27.00 inches	686 mm
Wheel Circumference	7.07 feet	2.155 m
Inlet Diameter/Area	29.5 inches dia./9.50 sq. ft.	749 mm/.8826 m <sup>2</sup>
Outlet Size/Area	28.29 x 38.48 inches I.D./7.56 sq. ft.	719 x 977 mm/.7023 m <sup>2</sup>
Tip Speed	7.07 x RPM ft./minute	2.155 x RPM m/minute
Maximum BHP	7.307 x (RPM ÷ 1000) <sup>3</sup> BHP	5.449 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3027	-20° to 150°F -29° to 66°C
CLASS I	1413
CLASS II	1843
CLASS III	2322
CLASS IV	—

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		1" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6048	800	388	0.43	425	0.56	459	0.70	490	0.84												
6804	900	418	0.53	453	0.68	484	0.82	515	0.98	543	1.15	571	1.32								
7560	1000	448	0.65	481	0.81	512	0.97	540	1.14	567	1.32	593	1.50			617	1.68				
8316	1100	479	0.79	511	0.97	540	1.15	567	1.33	593	1.51	618	1.70			642	1.90	686	2.31		
9072	1200	511	0.95	541	1.14	569	1.34	595	1.54	620	1.73	643	1.93			666	2.14	710	2.57	750	3.02
9828	1300	545	1.13	572	1.34	599	1.56	624	1.77	648	1.98	671	2.19			692	2.41	735	2.86	774	3.33
10584	1400	580	1.35	604	1.56	629	1.80	653	2.03	677	2.26	699	2.48			720	2.71	760	3.17	799	3.67
11340	1500	615	1.59	635	1.82	660	2.06	684	2.31	706	2.57	727	2.81			748	3.05	787	3.54	824	4.04
12096	1600	651	1.87	670	2.10	692	2.36	714	2.62	736	2.89	756	3.16			776	3.41	815	3.93	850	4.46
12852	1700	686	2.18	705	2.43	723	2.68	745	2.96	766	3.24	786	3.53			805	3.82	843	4.36	878	4.91
13608	1800	722	2.53	740	2.79	757	3.05	777	3.34	797	3.63	817	3.93			835	4.24	871	4.82	906	5.40
14364	1900	759	2.91	776	3.18	792	3.46	809	3.75	828	4.06	847	4.37			865	4.69	900	5.33	934	5.93
15120	2000	795	3.33	811	3.62	827	3.91	842	4.20	860	4.52	878	4.85			896	5.18	930	5.85	963	6.51
16632	2200	868	4.30	883	4.62	898	4.93	912	5.25	925	5.58	941	5.93			958	6.29	991	7.01	1022	7.75
18144	2400	942	5.46	956	5.80	969	6.14	982	6.49	995	6.84	1008	7.19			1022	7.56	1053	8.35	1082	9.15
19656	2600	1016	6.81	1029	7.18	1041	7.55	1054	7.92	1066	8.30	1078	8.68			1089	9.06	1116	9.87	1144	10.73
21168	2800	1090	8.38	1102	8.78	1114	9.17	1126	9.57	1137	9.98	1148	10.38			1159	10.79	1181	11.61	1207	12.52
22680	3000	1165	10.18	1176	10.61	1187	11.03	1198	11.46	1209	11.89	1219	12.32			1230	12.75	1250	13.63	1271	14.53
24192	3200	1239	12.24	1250	12.69	1261	13.14	1271	13.59	1281	14.05	1291	14.51			1301	14.97	1321	15.90	1339	16.83
25704	3400	1314	14.55	1324	15.03	1334	15.51	1344	15.99	1354	16.47	1363	16.96			1373	17.45	1391	18.43	1409	19.42
27216	3600	1389	17.15	1399	17.66	1408	18.16	1418	18.67	1427	19.18	1436	19.70			1445	20.21	1463	21.25	1480	22.29
28728	3800	1464	20.08	1473	20.68	1482	21.28	1491	21.65	1500	22.19	1509	22.73			1517	23.27	1534	24.38	1551	25.46
30240	4000	1539	23.27	1548	23.83	1557	24.39	1565	24.95	1574	25.52	1582	26.08			1590	26.65	1606	27.79	1622	28.94
31752	4200	1615	26.82	1623	27.40	1631	27.99	1639	28.58	1647	29.17	1655	29.77			1663	30.36	1679	31.56	1694	32.76
33264	4400	1690	30.71	1698	31.33	1706	31.94	1714	32.56	1721	33.18	1729	33.80			1737	34.42	1752	35.67	1766	36.93
34776	4600	1765	34.97	1773	35.62	1781	36.26	1788	36.90	1795	37.55	1803	38.20			1810	38.85	1825	40.15	1839	41.47
36288	4800	1841	39.62	1848	40.29	1855	40.96	1863	41.63	1870	42.31	1877	42.98			1884	43.66	1898	45.02	1912	46.38
37800	5000	1916	44.66	1923	45.36	1930	46.06	1937	46.76	1944	47.46	1951	48.16			1958	48.87	1971	50.28	1984	51.70
39312	5200	1992	50.12	1999	50.85	2005	51.57	2012	52.30	2019	53.03	2025	53.76			2032	54.49	2045	55.96	2058	57.43

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP		5 1/2" SP		6" SP		6 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11340	1500	894	5.13	964	6.30																
12096	1600	918	5.58	981	6.76																
12852	1700	943	6.06	1005	7.29	1062	8.56														
13608	1800	969	6.59	1029	7.86	1086	9.18	1143	10.58												
14364	1900	996	7.17	1054	8.47	1110	9.84	1162	11.24	1220	12.76										
15120	2000	1024	7.80	1080	9.12	1135	10.53	1186	11.99	1235	13.48	1292	15.12								
16632	2200	1080	9.18	1135	10.61	1185	12.06	1235	13.61	1283	15.20	1329	16.82	1372	18.47	1428	20.34				
18144	2400	1138	10.76	1191	12.28	1240	13.85	1287	15.48	1333	17.10	1377	18.82	1420	20.58	1461	22.36	1501	24.16	1553	26.21
19656	2600	1198	12.46	1248	14.18	1296	15.85	1342	17.54	1385	19.25	1427	21.02	1469	22.88	1510	24.76	1549	26.67	1586	28.60
21168	2800	1259	14.37	1307	16.25	1353	18.07	1398	19.87	1440	21.69	1480	23.53	1519	25.39	1559	27.38	1598	29.39	1635	31.42
22680	3000	1321	16.49	1367	18.49	1411	20.52	1455	22.44	1496	24.37	1536	26.32	1574	28.28	1611	30.27	1647	32.33	1684	34.47
24192	3200	1383	18.86	1429	20.97	1471	23.11	1512	25.27	1553	27.31	1592	29.36	1629	31.44	1665	33.53	1700	35.64	1734	37.77
25704	3400	1447	21.47	1491	23.70	1532	25.96	1572	28.24	1611	30.52	1649	32.69	1686	34.87	1721	37.07	1755	39.29	1789	41.52
27216	3600	1514	24.40	1554	26.70	1594	29.07	1633	31.47	1670	33.90	1707	36.30	1743	38.59	1778	40.90	1811	43.23	1844	45.57
28728	3800	1583	27.68	1617	29.99	1657	32.47	1695	34.98	1732	37.52	1768	40.09	1801	42.63	1835	45.05	1868	47.48	1900	49.93
30240	4000	1654	31.27	1684	33.62	1720	36.17	1757	38.80	1792	41.45	1827	44.13	1860	46.83	1893	49.52	1925	52.06	1957	54.62
31752	4200	1724	35.19	1753	37.65	1784	40.19	1820	42.93	1854	45.70	1888	48.49	1921	51.30	1952	54.14	1983	56.98	2014	59.65
33264	4400	1795	39.47	1823	42.03	1851	44.62	1883	47.40	1917	50.28	1950	53.18	1982	56.11	2013	59.06	2043	62.03	2073	65.03
34776	4600	1867	44.11	1894	46.78	1920	49.47	1947	52.22	1980	55.21	2012	58.23	2043	61.27	2074	64.33	2104	67.42	2133	70.52
36288	4800	1938	49.13	1965	51.91	1990	54.70	2015	57.52	2044	60.51	2075	63.64	2106	66.79	2136	69.97	2165	73.17	2193	76.36
37800	5000	2011	54.56	2036	57.44	2061	60.34	2085	63.27	2109	66.22	2139	69.43	2168	72.70	2198	75.99	2226	79.30	2254	82.63
39312	5200	2083	60.38	2107	63.38	2132	66.39	2155	69.42	2178	72.48	2203	75.61	2232	79.00	2260	82.40	2288	85.83	2316	89.27

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Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I  CL. II  CL. III  CL. IV 

Refer to factors on page 54 to convert numbers above to the desired metric units.

The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.

For minimum motor size required see "Fan Starting Requirements," page 9.

If the Maximum Safe Operating RPM is not shown, consult the factory.

Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.

Performance ratings do not include the effects of apparunances. Power rating does not include transmission losses. All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

DOUBLE WIDTH  
DOUBLE INLET

Wheel Diameter	30.00 inches	762 mm
Wheel Circumference	7.85 feet	2.393 m
Inlet Diameter/Area	32.5 inches dia./11.50 sq. ft.	825 mm/1.068 m <sup>2</sup>
Outlet Size/Area	31.42 x 42.35 inches I.D./9.24 sq. ft.	798 x 1076 mm/.8584 m <sup>2</sup>
Tip Speed	7.85 x RPM ft./minute	2.393 x RPM m/minute
Maximum BHP	12.21 x (RPM ÷ 1000) <sup>3</sup> BHP	9.105 x (RPM ÷ 1000) <sup>3</sup> kW

[illegible]

**CONSULT  
FACTORY**

# SILENTVANE™

## SIZE 3033

DOUBLE WIDTH  
DOUBLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	33.00 inches	838 mm
Wheel Circumference	8.64 feet	2.633 m
Inlet Diameter/Area	35.5 inches dia./13.70 sq. ft.	902 mm/1.273 m <sup>2</sup>
Outlet Size/Area	34.60 x 46.85 inches I.D./11.26 sq. ft.	879 x 1190 mm/1.0461 m <sup>2</sup>
Tip Speed	8.64 x RPM ft./minute	2.633 RPM m/minute
Maximum BHP	19.68 x (RPM ÷ 1000) <sup>3</sup> BHP	14.68 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3033	-20° to 150°F	-29° to 66°C
CLASS I	1170	
CLASS II	1526	
CLASS III	1923	
CLASS IV	—	

VOL CFM	OUT VEL	¼" SP		⅜" SP		½" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9009	800	307	0.57	338	0.75	367	0.94	395	1.14	423	1.36	449	1.58				
10135	900	330	0.71	358	0.90	385	1.11	410	1.32	436	1.55	462	1.80	486	2.04		
11261	1000	353	0.86	381	1.09	406	1.32	429	1.54	454	1.79	476	2.03	499	2.26	543	2.84
12387	1100	378	1.05	404	1.30	428	1.55	449	1.78	472	2.05	494	2.32	515	2.59	555	3.14
13513	1200	404	1.27	428	1.54	449	1.79	471	2.06	492	2.34	512	2.62	532	2.90	570	3.49
14639	1300	429	1.50	453	1.81	474	2.10	494	2.38	513	2.66	532	2.96	551	3.27	587	3.88
15765	1400	458	1.82	478	2.11	497	2.41	517	2.72	535	3.03	553	3.34	570	3.64	606	4.32
16892	1500	485	2.14	504	2.46	522	2.77	540	3.09	558	3.43	576	3.78	592	4.09	625	4.78
18018	1600	512	2.50	530	2.84	547	3.17	564	3.51	582	3.88	598	4.22	614	4.57	645	5.28
19144	1700	538	2.88	556	3.26	573	3.62	590	4.00	606	4.36	622	4.74	637	5.10	667	5.86
20270	1800	567	3.36	583	3.73	599	4.11	615	4.50	631	4.90	645	5.27	660	5.66	690	6.49
21396	1900	594	3.84	610	4.25	626	4.66	641	5.07	656	5.48	670	5.88	685	6.32	712	7.13
22522	2000	622	4.38	638	4.83	653	5.26	667	5.68	681	6.11	695	6.54	709	6.98	736	7.86
23648	2100	649	4.96	665	5.43	680	5.86	694	6.29	708	6.72	722	7.15	736	7.59	763	8.50
24774	2200	679	5.56	692	6.10	706	6.58	720	7.07	733	7.54	746	8.01	759	8.49	784	9.45
25900	2300	705	6.18	718	6.74	731	7.17	744	7.64	757	8.09	770	8.54	783	8.99	807	10.00
27026	2400	735	6.84	748	7.41	761	7.86	774	8.31	786	8.76	799	9.21	810	9.66	833	10.70
28152	2500	762	7.50	774	8.08	787	8.53	799	9.00	810	9.45	822	9.90	833	10.35	855	11.40
29278	2600	792	8.16	804	8.74	817	9.19	828	9.64	840	10.09	851	10.54	862	10.99	884	12.10
30404	2700	819	8.82	831	9.39	843	9.84	854	10.29	865	10.74	876	11.19	887	11.64	908	12.80
31530	2800	849	9.50	861	10.07	872	10.52	883	10.97	894	11.39	904	11.80	915	12.21	936	13.40
32656	2900	879	10.18	891	10.75	902	11.19	913	11.64	924	12.09	935	12.54	946	12.99	967	14.20
33782	3000	907	10.80	919	11.37	930	11.82	941	12.27	952	12.72	963	13.17	974	13.62	995	14.90
34908	3100	935	11.42	947	11.99	958	12.44	969	12.89	980	13.34	991	13.79	1002	14.24	1023	15.40
36034	3200	965	12.04	977	12.61	988	13.06	999	13.51	1010	13.96	1021	14.41	1032	14.86	1053	16.00
37160	3300	993	12.66	1005	13.18	1016	13.63	1027	14.08	1038	14.53	1049	14.98	1060	15.43	1081	16.60
38286	3400	1023	13.28	1035	13.80	1046	14.25	1057	14.70	1068	15.15	1079	15.60	1090	16.05	1111	17.20
39412	3500	1051	13.90	1063	14.42	1074	14.87	1085	15.32	1096	15.77	1107	16.22	1118	16.67	1139	17.80
40538	3600	1081	14.52	1093	15.04	1104	15.49	1115	15.94	1126	16.39	1137	16.84	1148	17.29	1169	18.40
41664	3700	1109	15.14	1121	15.66	1132	16.11	1143	16.56	1154	17.01	1165	17.46	1176	17.91	1197	19.00
42790	3800	1139	15.76	1151	16.28	1162	16.63	1173	17.08	1184	17.53	1195	17.98	1206	18.43	1227	19.60
43916	3900	1167	16.38	1179	16.90	1190	17.35	1201	17.80	1212	18.25	1223	18.70	1234	19.15	1255	20.20
45042	4000	1197	16.99	1209	17.52	1220	17.97	1231	18.42	1242	18.87	1253	19.32	1264	19.77	1285	20.80
46168	4100	1225	17.61	1237	18.04	1248	18.49	1259	18.94	1270	19.39	1281	19.84	1292	20.29	1313	21.40
47294	4200	1255	18.23	1267	18.66	1278	19.11	1289	19.56	1300	20.01	1311	20.46	1322	20.91	1343	22.00
48420	4300	1281	18.85	1293	19.28	1304	19.73	1315	20.18	1326	20.63	1337	21.08	1348	21.53	1369	22.60
49546	4400	1313	19.47	1325	19.90	1336	20.35	1347	20.80	1358	21.25	1369	21.70	1380	22.15	1401	23.20
50672	4500	1342	20.09	1354	20.52	1365	20.97	1376	21.42	1387	21.87	1398	22.32	1409	22.77	1430	23.80
51798	4600	1372	20.71	1386	21.14	1397	21.59	1408	22.04	1419	22.49	1430	22.94	1441	23.39	1462	24.40
52924	4700	1401	21.33	1413	21.76	1424	22.21	1435	22.66	1446	23.11	1457	23.56	1468	24.01	1489	25.00
54050	4800	1431	21.95	1443	22.38	1454	22.83	1465	23.28	1476	23.73	1487	24.18	1498	24.63	1519	25.60
55176	4900	1461	22.57	1473	23.00	1484	23.45	1495	23.90	1506	24.35	1517	24.80	1528	25.25	1549	26.20
56302	5000	1489	23.19	1501	23.62	1512	24.07	1523	24.52	1534	24.97	1545	25.42	1556	25.87	1577	26.80
57428	5100	1518	23.81	1530	24.24	1541	24.69	1552	25.14	1563	25.59	1574	26.04	1585	26.49	1606	27.20
58554	5200	1547	24.43	1559	24.86	1570	25.31	1581	25.76	1592	26.21	1603	26.66	1614	27.11	1635	28.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14639	1300	690	5.89																		
15765	1400	704	6.42																		
16892	1500	718	6.95	778	8.54																
18018	1600	735	7.57	792	9.20	846	10.90														
19144	1700	753	8.24	807	9.90	860	11.70	912	13.50												
20270	1800	772	8.95	824	10.70	874	12.50	924	14.40	972	16.30										
21396	1900	792	9.73	842	11.50	890	13.30	938	15.30	985	17.30	1030	19.40								
22522	2000	812	10.50	860	12.40	908	14.30	953	16.30	998	18.30	1042	20.50	1086	22.70						
23648	2100	835	11.30	883	13.30	931	15.30	976	17.30	1021	19.30	1065	21.50	1109	23.70	1151	27.50	1190	29.90		
24774	2200	855	12.30	901	14.40	944	16.40	987	18.50	1029	20.60	1070	22.90	1111	25.20	1151	27.50	1190	29.90	1233	35.60
25900	2300	879	13.10	924	15.40	967	17.50	1009	19.60	1050	21.70	1091	24.00	1131	27.50	1170	30.50	1209	33.60	1253	35.60
27026	2400	900	14.40	943	16.60	984	18.70	1024	20.90	1064	23.20	1103	25.60	1141	28.00	1179	30.50	1215	32.90	1253	35.60
28152	2500	924	15.20	967	17.70	1006	19.80	1045	22.10	1084	24.50	1122	27.00	1159	29.50	1196	32.00	1232	35.40	1270	38.90
29278	2600	947	16.70	987	19.00	1026	21.30	1065	23.70	1102	26.10	1138	28.50	1175	31.10	1210	33.60	1245	36.20	1280	38.90
30404	2700	969	17.90	1004	20.10	1043	22.50	1081	25.00	1117	27.50	1153	30.00	1189	32.50	1224	35.00	1258	37.50	1293	40.00
31530	2800	995	19.30	1034	21.80	1070	24.20	1107	26.80	1142	29.30	1178	32.00	1211	34.50	1245	37.20	1278	39.90	1311	42.70
32656	2900	1023	20.70	1063	23.00	1104	26.50	1141	29.10	1176	31.60	1211	34.50	1245	37.20	1278	39.90	1311	42.70		
33782	3000	1045	22.20	1081	24.80	1117	27.50	1151	30.10	1185	32.80	1218	35.50	1251	38.30	1283	41.10	1315	44.00	1346	46.90
36035	3200	1095	25.40	1130	28.20	1164	31.00	1197	33.90	1229	36.70	1261	39.60	1292	42.50	1322	45.30	1353	48.40	1383	51.40
38287	3400	1145	28.60	1179	31.20	1212	33.90	1242	36.90	1275	40.00	1305	43.80	1335	47.00	1364	50.00	1394	53.20	1422	56.30
40540	3600	1199	33.00	1231	36.10	1261	39.10	1292	42.30	1322	45.50	1351	48.70	1379	51.80	1408	55.10	1435	58.30	1463	61.60
42792	3800	1252	37.30	1282	40.60	1311	43.80	1341	47.20	1369	50.40	1397	53.70	1425	57.10	1452	60.50	1479	63.90	1506	67.40
45044	4000	1305	42.00	1334	45.50	1363	48.90	1390	52.30	1418	55.60	1447	59.00	1472	62.90	1498	66.40	1524	69.90	1549	73.40
47296	4200	1357	47.20	1385	50.80	1414	54.40	1441	58.00	1468	61.70	1494	65.30	1519	68.90	1545	72.70	1570	76.40	1594	80.00
49548	4400	1413	52.00	1440	55.60	1467	60.40	1492	64.10	1518	67.90	1543	71.70	1568	75.60	1592	79.30	1617	83.30	1640	87.10
51801	4600	1468	58.90	1494	62.80	1519	66.70	1544	70.70	1569	74.70	1593	78.60	1617	82.60	1641	86.70	1664	90.60	1687	94.60
54053	4800	1522	65.30	1547	69.20	1572	73.60	1597	77.30	1620	81.00	1644	86.10	1667	90.20	1690	94.30	1713	98.60	1735	103.00
56305	5000	1577	72.90	1602	76.80	1626	81.10	1649	85.30	1672	89.60	1695	93.90	1719	98.30	1740	103.00	1762	107.00	1783	111.00
58557	5200	1633	80.00	1656	84.40	1679	88.90	1702	93.40	1725	98.00	1747	102.00	1769	107.00	1790	111.00	1811	116.00	1833	120.00

DOUBLE WIDTH  
DOUBLE INLET

Wheel Diameter	36.50 inches	927 mm
Wheel Circumference	9.56 feet	2.914 m
Inlet Diameter/Area	39.0 inches dia./16.60 sq. ft.	991 mm/1.542 m <sup>2</sup>
Outlet Size/Area	38.29 x 51.60 inches I.D./13.72 sq. ft.	973 x 1311 mm/1.275 m <sup>2</sup>
Tip Speed	9.56 x RPM ft./minute	2.914 x RPM m/minute
Maximum BHP	32.60 x (RPM ÷ 1000) <sup>3</sup> BHP	24.31 x (RPM ÷ 1000) <sup>3</sup> kW

[illegible]

**CONSULT  
FACTORY**

# SILENTVANE™

## SIZE 3040

DOUBLE WIDTH  
DOUBLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	40.25 inches	1022 mm
Wheel Circumference	10.54 feet	3.213 m
Inlet Diameter/Area	43.50 inches sq./20.62 sq. ft.	1105 mm/1.916 m <sup>2</sup>
Outlet Size/Area	42.48 x 57.17 inches I.D./16.87 sq. ft.	1079 x 1452 mm/1.567 m <sup>2</sup>
Tip Speed	10.54 x RPM ft./minute	3.211 x RPM m/minute
Maximum BHP	52.90 x (RPM ÷ 1000) <sup>3</sup> BHP	39.45 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3040	-20° to 150°F	-29° to 66°C
CLASS I	963	
CLASS II	1255	
CLASS III	1582	
CLASS IV	—	

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13464	800	253	0.86	278	1.13	301	1.41	325	1.72	348	2.05	369	2.37	399	3.06	446	4.26
15147	900	272	1.07	295	1.37	316	1.66	337	1.98	359	2.34	379	2.68	406	3.47	456	4.71
16830	1000	290	1.29	313	1.64	332	1.94	353	2.31	372	2.66	390	3.02	410	3.44	422	3.85
18513	1100	311	1.57	332	1.95	351	2.31	369	2.67	388	3.07	406	3.47	422	3.85	446	4.26
20196	1200	332	1.90	352	2.31	369	2.68	388	3.11	404	3.50	421	3.93	437	4.35	468	5.22
21879	1300	354	2.28	372	2.71	389	3.13	406	3.57	422	4.00	437	4.43	452	4.87	483	5.84
23562	1400	377	2.74	393	3.17	409	3.62	425	4.09	440	4.54	455	5.02	469	5.48	497	6.44
25245	1500	399	3.22	414	3.68	430	4.18	445	4.67	459	5.15	473	5.64	487	6.15	514	7.18
26928	1600	421	3.75	436	4.26	450	4.78	464	5.27	478	5.80	492	6.35	505	6.87	530	7.91
28611	1700	443	4.34	458	4.91	472	5.46	485	5.99	498	6.53	511	7.09	524	7.67	548	8.77
30294	1800	466	5.02	480	5.61	493	6.18	506	6.77	519	7.36	531	7.93	543	8.51	567	9.72
31977	1900	489	5.78	502	6.38	515	7.01	527	7.60	539	8.21	551	8.83	563	9.46	585	10.70
33660	2000	512	6.59	525	7.26	537	7.90	548	8.50	561	9.21	572	9.83	583	10.50	605	11.80
35343	2200	558	8.46	570	9.19	581	9.89	592	10.60	603	11.30	614	12.00	624	12.70	644	14.10
40392	2400	605	10.70	616	11.50	626	12.30	636	13.00	647	13.80	657	14.60	667	15.40	686	17.00
43758	2600	652	13.30	662	14.20	672	15.00	682	15.90	691	16.70	700	17.50	709	18.30	727	20.00
47124	2800	700	16.40	709	17.30	718	18.20	727	19.10	736	20.00	745	21.00	753	21.80	770	23.60
50490	3000	747	19.90	756	20.90	764	21.80	773	22.80	781	23.80	789	24.70	797	25.60	814	27.70
53856	3200	795	23.90	803	24.90	811	25.90	819	27.00	827	28.00	834	29.00	842	30.00	857	32.10
57222	3400	842	28.30	850	29.40	857	30.50	865	31.60	873	32.80	880	33.80	888	35.00	902	37.10
60588	3600	890	33.30	898	34.60	904	35.60	912	36.90	919	38.00	926	39.20	933	40.30	947	42.70
63954	3800	938	38.90	945	40.20	952	41.40	959	42.70	966	44.00	972	45.10	979	46.40	992	48.80
67320	4000	986	45.10	992	46.40	999	47.70	1006	49.10	1012	50.30	1018	51.50	1025	52.90	1037	55.40
70686	4200	1034	52.00	1040	53.30	1046	54.60	1053	56.10	1059	57.40	1065	58.80	1071	60.10	1083	62.80
74052	4400	1082	59.50	1088	60.90	1094	62.30	1100	63.80	1106	65.20	1112	66.70	1117	67.90	1129	70.80
77418	4600	1130	67.70	1136	69.20	1142	70.80	1147	72.10	1153	73.70	1159	75.20	1164	76.60	1175	79.50
80784	4800	1178	76.60	1184	78.20	1189	79.70	1195	81.40	1200	82.80	1205	84.30	1211	86.00	1222	89.10
84150	5000	1227	86.50	1232	88.00	1237	89.60	1242	91.10	1248	92.90	1253	94.50	1258	96.10	1268	99.20
87516	5200	1275	96.90	1280	98.60	1285	100.00	1290	102.00	1295	104.00	1300	105.00	1305	107.00	1315	110.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21879	1300	567	8.84																		
23562	1400	578	9.60																		
25245	1500	590	10.40	638	12.70																
26928	1600	604	11.40	650	13.80	695	16.30														
28611	1700	619	12.40	663	14.80	706	17.50	748	20.20												
30294	1800	634	13.40	677	16.00	718	18.70	758	21.50	798	24.40										
31977	1900	650	14.50	691	17.20	731	20.00	770	22.90	808	25.90	845	29.00								
33660	2000	667	15.80	707	18.60	745	21.40	783	24.40	819	27.40	855	30.60	891	33.90						
37026	2200	703	18.50	740	21.50	776	24.60	811	27.70	845	30.90	879	34.20	912	37.70	944	41.10	977	44.80		
40392	2400	740	21.60	775	24.80	809	28.10	842	31.40	874	34.80	906	38.30	937	41.90	968	45.60	998	49.30	1028	53.10
43758	2600	779	25.10	812	28.50	844	32.00	875	35.50	905	39.10	935	42.70	965	46.60	994	50.40	1023	54.30	1051	58.30
47124	2800	819	29.00	850	32.70	880	36.30	910	40.10	939	43.90	967	47.70	995	51.70	1023	55.70	1050	59.80	1077	63.90
50490	3000	860	33.40	889	37.30	918	41.20	947	45.30	974	49.20	1001	53.30	1028	57.50	1054	61.60	1080	65.90	1105	70.10
53856	3200	901	38.20	930	42.50	957	46.60	984	50.80	1010	54.90	1036	59.20	1062	63.70	1087	68.00	1112	72.50	1136	76.90
57222	3400	944	43.70	971	48.10	997	52.40	1023	56.90	1048	61.30	1073	65.90	1097	70.30	1121	74.90	1145	79.60	1169	84.40
60588	3600	987	49.60	1012	54.10	1038	58.90	1063	63.60	1087	68.30	1111	73.10	1134	77.80	1157	82.50	1180	87.40	1202	92.20
63954	3800	1030	56.10	1055	61.00	1079	65.80	1103	70.80	1126	75.70	1149	80.70	1172	85.80	1194	90.80	1216	95.90	1237	101.00
67320	4000	1074	63.20	1098	68.40	1121	73.50	1144	78.70	1166	83.80	1189	89.20	1210	94.20	1231	99.40	1253	105.00	1274	110.00
70686	4200	1118	70.90	1141	76.30	1164	81.80	1185	87.00	1207	92.50	1229	98.20	1249	103.00	1270	109.00	1290	114.00	1311	120.00
74052	4400	1163	79.40	1185	85.00	1207	90.80	1228	96.40	1249	102.00	1269	108.00	1289	113.00	1309	119.00	1329	125.00	1349	131.00
77418	4600	1208	88.50	1229	94.40	1250	100.00	1270	106.00	1291	112.00	1310	118.00	1330	124.00	1349	130.00	1368	136.00	1387	142.00
80784	4800	1253	96.30	1274	102.00	1294	108.00	1314	114.00	1333	120.00	1352	126.00	1371	132.00	1390	138.00	1409	144.00	1427	150.00
84150	5000	1299	109.00	1318	115.00	1338	122.00	1357	128.00	1376	135.00	1395	141.00	1413	148.00	1431	154.00	1449	161.00	1467	167.00
87516	5200	1345	121.00	1364	127.00	1383	134.00	1401	141.00	1419	147.00	1437	154.00	1455	161.00	1473	167.00	1490	174.00	1508	181.00

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40392	2400	1057	57.00																		
43758	2600	1079	62.30	1134	70.70																
47124	2800	1103	68.00	1156	76.80	1207	85.70														
50490	3000	1131	74.60	1181	83.60	1229	92.60	1278	102.00	1325	112.00										
53856	3200	1160	81.40	1208	90.80	1255	100.00	1300	110.00	1346	120.00										
57222	3400	1192	89.10	1237	98.70	1282	109.00	1326	119.00	1369	129.00										
60588	3600	1224	97.10	1268	107.00	1311	117.00	1354	128.00	1395	139.00										
63954	3800	1259	106.00	1301	116.00	1343	127.00	1383	138.00	1423	149.00										
67320	4000	1294	115.00	1335	126.00	1375	137.00	1414	148.00	1453	160.00										
70686	4200	1330	125.00	1370	137.00	1409	148.00	1446	160.00	1484	172.00										
74052	4400	1368	136.00	1406	148.00	1443	160.00	1480	172.00	1516	184.00										
77418	4600	1406	148.00	1443	160.00	1479	172.00	1515	185.00	1550	197.00										
80784	4800	1445	160.00	1481	173.00	1516	186.00	1550	198.00												
84150	5000	1484	173.00	1519	187.00	1553	200.00														
87516	5200	1525	188.00	1558	201.00																

# 3000 SERIES

## SIZE 3045

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3045	-20° to 150°F -29° to 66°C
CLASS I	869
CLASS II	1134
CLASS III	1429
CLASS IV	—

Wheel Diameter	44.50 inches	1130 mm
Wheel Circumference	11.65 feet	3.551 m
Inlet Diameter/Area	47.75 inches sq./24.84 sq. ft.	1213 mm/2.308 m <sup>2</sup>
Outlet Size/Area	46.98 x 63.04 inches I.D./20.57 sq. ft.	1193 x 1601 mm/1.911 m <sup>2</sup>
Tip Speed	11.65 x RPM ft./minute	3.551 x RPM m/minute
Maximum BHP	87.64 x (RPM ÷ 1000) <sup>3</sup> BHP	65.35 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		¾" SP		1½" SP		2½" SP		3½" SP		4½" SP		5½" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16430	800	228	1.04	251	1.38	272	1.71	294	2.10	314	2.48	333	2.87	361	3.74	403	5.19	442	6.85	478	8.70	511	11.40
18484	900	245	1.29	266	1.65	286	2.03	305	2.42	324	2.84	342	3.26	370	4.17	412	5.73	451	7.51	488	9.52	524	12.40
20538	1000	262	1.57	283	2.00	302	2.42	319	2.82	337	3.27	354	3.72	381	4.68	424	6.68	462	8.26	499	10.40	538	13.50
22592	1100	281	1.92	300	2.37	317	2.81	333	3.24	351	3.75	366	4.20	391	5.11	434	7.11	474	8.98	511	11.40	553	14.60
24646	1200	300	2.31	318	2.81	333	3.25	350	3.77	365	4.26	380	4.77	395	5.30	423	6.36	451	7.51	478	8.70	511	11.40
26699	1300	320	2.79	336	3.29	352	3.83	367	4.35	381	4.87	395	5.40	409	5.96	436	7.09	462	8.26	488	9.52	524	12.40
28753	1400	340	3.32	355	3.86	370	4.42	384	4.98	398	5.55	411	6.11	424	6.68	450	7.89	474	9.08	499	10.40	538	13.50
30807	1500	360	3.90	374	4.48	388	5.07	402	5.69	414	6.24	427	6.86	440	7.49	464	8.73	488	10.00	511	11.40	553	14.60
32861	1600	380	4.56	394	5.20	407	5.82	419	6.41	433	7.12	444	7.70	456	8.35	480	9.71	502	11.00	524	12.40	566	16.00
34915	1700	400	5.28	413	5.95	426	6.63	438	7.29	450	7.96	462	8.66	473	9.32	495	10.70	517	12.10	538	13.50	584	17.50
36968	1800	421	6.12	433	6.81	445	7.51	457	8.24	469	8.98	480	9.68	491	10.40	512	11.80	533	13.30	553	14.60	618	20.80
39022	1900	442	7.05	453	7.75	465	8.52	476	9.25	487	10.00	498	10.80	509	11.60	529	13.00	549	14.60	569	16.20	641	22.50
41076	2000	462	8.00	474	8.83	485	9.61	495	10.30	506	11.20	516	11.90	527	12.80	546	14.30	566	16.00	584	17.50	658	24.50
43130	2100	482	9.04	495	9.92	506	10.79	516	11.55	526	12.44	536	13.20	547	14.10	565	15.60	584	17.00	602	18.50	680	26.50
45184	2200	504	10.30	514	11.10	525	12.10	535	12.90	545	13.80	554	14.60	564	15.50	583	17.30	600	19.00	618	20.80	700	28.50
47238	2300	524	11.60	534	12.40	545	13.30	554	14.10	564	15.00	573	15.80	583	16.70	602	18.70	619	20.60	636	22.50	730	30.50
49291	2400	547	13.10	556	14.00	566	15.00	575	15.90	584	16.80	593	17.80	602	18.70	619	20.60	636	22.50	653	24.50	750	33.10
51345	2500	569	14.60	578	15.50	588	16.50	597	17.40	606	18.30	615	19.30	624	20.30	633	21.40	641	22.40	657	24.40	770	35.10
53399	2600	591	16.20	600	17.10	610	18.10	619	19.00	628	20.00	637	21.00	646	22.00	655	23.00	663	24.00	679	26.00	790	37.10
55453	2700	613	17.80	622	18.70	632	19.70	641	20.60	650	21.60	659	22.60	668	23.60	677	24.60	685	25.60	701	27.60	810	39.10
57506	2800	635	19.50	643	20.60	652	21.60	661	22.60	670	23.60	679	24.60	688	25.60	697	26.60	705	27.60	721	29.60	830	41.10
59560	2900	657	21.30	665	22.50	674	23.50	683	24.50	692	25.50	701	26.50	710	27.50	719	28.50	728	29.50	743	31.50	850	43.10
61614	3000	679	23.10	687	24.40	696	25.40	705	26.40	714	27.40	723	28.40	732	29.40	741	30.40	750	31.40	765	33.40	870	45.10
63668	3100	701	25.00	709	26.40	718	27.40	727	28.40	736	29.40	745	30.40	754	31.40	763	32.40	772	33.40	787	35.40	890	47.10
65722	3200	723	26.90	731	28.40	740	29.40	749	30.40	758	31.40	767	32.40	776	33.40	785	34.40	794	35.40	809	37.40	910	49.10
67776	3300	745	28.80	753	30.40	762	31.40	771	32.40	780	33.40	789	34.40	798	35.40	807	36.40	816	37.40	831	39.40	930	51.10
69829	3400	767	30.70	775	32.40	784	33.40	793	34.40	802	35.40	811	36.40	820	37.40	829	38.40	838	39.40	853	41.40	950	53.10
71883	3500	789	32.70	797	34.40	806	35.40	815	36.40	824	37.40	833	38.40	842	39.40	851	40.40	860	41.40	875	43.40	970	55.10
73937	3600	811	34.70	819	36.40	828	37.40	837	38.40	846	39.40	855	40.40	864	41.40	873	42.40	882	43.40	897	45.40	990	57.10
75991	3700	833	36.70	841	38.40	850	39.40	859	40.40	868	41.40	877	42.40	886	43.40	895	44.40	904	45.40	919	47.40	1010	59.10
78044	3800	855	38.70	863	40.40	872	41.40	881	42.40	890	43.40	899	44.40	908	45.40	917	46.40	926	47.40	941	49.40	1030	61.10
80098	3900	877	40.70	885	42.40	894	43.40	903	44.40	912	45.40	921	46.40	930	47.40	939	48.40	948	49.40	963	51.40	1050	63.10
82152	4000	899	42.70	907	44.40	916	45.40	925	46.40	934	47.40	943	48.40	952	49.40	961	50.40	970	51.40	985	53.40	1070	65.10
84206	4100	921	44.70	929	46.40	938	47.40	947	48.40	956	49.40	965	50.40	974	51.40	983	52.40	992	53.40	1007	55.40	1090	67.10
86260	4200	943	46.70	951	48.40	960	49.40	969	50.40	978	51.40	987	52.40	996	53.40	1005	54.40	1014	55.40	1029	57.40	1110	69.10
88314	4300	965	48.70	973	50.40	982	51.40	991	52.40	1000	53.40	1009	54.40	1018	55.40	1027	56.40	1036	57.40	1051	59.40	1130	71.10
90367	4400	987	50.70	995	52.40	1004	53.40	1013	54.40	1022	55.40	1031	56.40	1040	57.40	1049	58.40	1058	59.40	1073	61.40	1150	73.10
92421	4500	1009	52.70	1017	54.40	1026	55.40	1035	56.40	1044	57.40	1053	58.40	1062	59.40	1071	60.40	1080	61.40	1095	63.40	1170	75.10
94475	4600	1031	54.70	1039	56.40	1048	57.40	1057	58.40	1066	59.40	1075	60.40	1084	61.40	1093	62.40	1102	63.40	1117	65.40	1190	77.10
96529	4700	1053	56.70	1061	58.40	1070	59.40	1079	60.40	1088	61.40	1097	62.40	1106	63.40	1115	64.40	1124	65.40	1139	67.40	1210	79.10
98582	4800	1075	58.70	1083	60.40	1092	61.40	1101	62.40	1110	63.40	1119	64.40	1128	65.40	1137	66.40	1146	67.40	1161	69.40	1230	81.10
100636	4900	1097	60.70	1105	62.40	1114	63.40	1123	64.40	1132	65.40	1141	66.40	1150	67.40	1159	68.40	1168	69.40	1183	71.40	1250	83.10
102690	5000	1119	62.70	1127	64.40	1136	65.40	1145	66.40	1154	67.40	1163	68.40	1172	69.40	1181	70.40	1190	71.40	1205	73.40	1270	85.10
104744	5100	1141	64.70	1149	66.40	1158	67.40	1167	68.40	1176	69.40	1185	70.40	1194	71.40	1203	72.40	1212	73.40	1227	75.40	1290	87.10
106798	5200	1163	66.70	1171	68.40	1180	69.40	1189	70.40	1198	71.40	1207	72.40	1216	73.40	1225	74.40	1234	75.40	1249	77.40	1310	89.10

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26699	1300	513	10.80																		
28753	1400	522	11.70																		
30807	1500	533	12.70																		
32861	1600	546	13.80	577	15.60	628	19.90														
				588	16.80																
34915	1700	559	15.00	599	18.10	638	21.30	676	24.60												
36968	1800	573	16.30	612	19.50	649	22.80	685	26.20	722	29.90										
39022	1900	588	17.80	625	21.00	661	24.40	696	27.90	731	31.60	765	35.50								
41076	2000	603	19.20	639	22.60	674	26.20	708	29.80	741	33.50	774	37.50	805	41.30						
45184	2200	635	22.50	669	26.20	701	29.90	733	33.80	764	37.90	795	41.80	825	46.00	854	50.20	883	54.60		
47921	2400	669	26.40	700	30.20	731	34.20	761	38.30	790	42.40	819	46.70	847	51.10	875	55.60	902	60.10	929	64.70
49291	2500	694	28.60	734	34.30	763	39.10	791	43.60	818	47.60	845	52.10	872	56.70	899	61.30	925	65.30	950	71.10
52506	2800	740	35.40	788	39.80	795	44.30	822	48.90	848	53.50	874	58.20	900	63.10	925	68.00	949	72.90		
55956	3000	776	40.60	804	45.50	830	50.30	855	55.10	880	60.00	905	65.00	929	70.00	953	75.20	976	80.30	999	85.50
61614	3200	815	46.70	840	51.70	865	56.80	889	61.80	913	67.00	936	72.20	959	77.40	982	82.80	1005	88.10	1027	93.90
65722	3400	857	52.60	874	57.60	897	63.00	921	68.30	947	73.60	969	78.90	992	85.90	1013	91.00	1035	97.10	1056	103.00
73937	3600	891	60.30	915	66.10	937	71.60	960	77.40	982	83.20	1003	88.80	1025	94.90	1046	101.00	1066	107.00		
78044	3800	931	68.40	953	74.30	975	80.30	996	86.10	1017	92.10	1038	98.30	1058	104.00	1079	111.00	1098	117.00	1118	123.00
82152	4000	970	76.90	992	83.30	1013	89.60	1034	96.00	1054	102.00	1074	109.00	1093	115.00	1113	121.00	1132	128.00	1151	134.00
85037	4200	1013	86.30	1035	93.00	1051	100.00	1071	106.00	1091	113.00	1112	120.00	1129	127.00	1147	133.00	1165	140.00	1184	146.00
90366	4400	1050	96.70	1070	103.00	1090	110.00	1109	117.00	1128	124.00	1147	131.00	1165	138.00	1183	145.00	1201	152.00	1218	159.00
94475	4600	1091	108.00	1110	115.00	1129	122.00	1148	130.00	1166	137.00	1184	144.00	1202	151.00	1219	158.00	1237	166.00	1254	173.00
98582	4800	1134	120.00	1150	127.00	1169	135.00	1187	142.00	1204	150.00	1222	158.00	1239	165.00	1256	173.00	1273	180.00	1289	188.00
102400	5000	1173	132.00	1190	139.00	1209	143.00	1226	150.00	1243	164.00	1260	172.00	1277	180.00	1293	188.00	1309	195.00	1325	203.00
106798	5200	1214	142.00	1232	155.00	1248	158.00	1266	171.00	1282	179.00	1298	187.00	1315	196.00	1330	204.00	1346	212.00	1362	220.00

# SILENTVANE™

## SIZE 3049

DOUBLE WIDTH  
DOUBLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	49.00 inches	1245 mm
Wheel Circumference	12.83 feet	3.911 m
Inlet Diameter/Area	52.50 inches sq./30.04 sq. ft.	1334 mm/2.791 m <sup>2</sup>
Outlet Size/Area	51.67 x 69.79 inches I.D./25.04 sq. ft.	1312 x 1773 mm/2.326 m <sup>2</sup>
Tip Speed	12.83 x RPM ft./minute	3.909 x RPM m/minute
Maximum BHP	142.0 x (RPM ÷ 1000) <sup>3</sup> BHP	105.9 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3049	-20° to 150°F -29° to 66°C
CLASS I	793
CLASS II	1034
CLASS III	1303
CLASS IV	—

VOL CFM	OUT VEL	¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20030	800	208	1.28	228	1.67	248	2.11	267	2.55	286	3.04	304	3.54	328	4.55	366	6.30	401	8.30		
22534	900	224	1.60	243	2.04	261	2.50	278	2.97	295	3.47	312	4.01	337	5.11	375	7.01				
25038	1000	239	1.93	258	2.45	274	2.92	291	3.46	307	4.01	324	4.50	347	5.73						
27542	1100	256	2.35	274	2.93	289	3.44	304	3.99	319	4.56	334	5.18								
30046	1200	274	2.85	290	3.45	304	4.00	319	4.63	333	5.24	346	5.83	360	6.50	385	7.77	410	9.15	434	10.60
32549	1300	292	3.43	307	4.07	321	4.70	334	5.31	347	5.95	360	6.62	373	7.32	397	8.67	420	10.10	443	11.60
35053	1400	310	4.06	324	4.75	337	5.41	350	6.10	362	6.76	374	7.45	386	8.16	410	9.67	432	11.10	453	12.60
37557	1500	328	4.78	341	5.49	354	6.23	366	6.95	378	7.69	390	8.46	401	9.18	423	10.70	444	12.20	465	13.90
40061	1600	347	5.62	359	6.36	371	7.13	382	7.86	394	8.68	405	9.46	416	10.30	437	11.90	457	13.50	477	15.01
42565	1700	365	6.48	377	7.32	389	8.17	400	8.98	410	9.75	421	10.60	431	11.40	451	13.10	471	14.80	490	16.60
45068	1800	384	7.52	395	8.36	407	9.30	417	10.10	427	11.00	437	11.80	447	12.70	466	14.40	486	16.30	504	18.01
47572	1900	403	8.64	414	9.57	424	10.50	434	11.30	444	12.30	454	13.20	463	14.10	482	16.00	500	17.80	518	19.80
50076	2000	422	9.87	433	10.90	443	11.90	452	12.70	462	13.70	471	14.70	480	15.60	498	17.60	516	19.60	532	21.50
55084	2200	460	12.70	470	13.80	479	14.80	488	15.90	497	16.90	506	18.00	514	19.00	531	21.20	547	23.30	563	25.40
60091	2400	499	16.10	508	17.30	516	18.40	525	19.60	533	20.70	541	21.80	549	23.00	565	25.30	580	27.60	595	29.90
65099	2600	538	20.00	546	21.30	554	22.50	562	23.80	569	24.90	577	26.20	585	27.60	599	29.90	614	32.50	628	35.00
70106	2800	577	24.60	584	25.90	592	27.30	599	28.60	606	29.90	614	31.40	621	32.70	634	35.20	648	38.00	661	40.60
75114	3000	616	29.80	623	31.20	630	32.70	637	34.10	644	35.60	651	37.10	657	38.40	670	41.20	683	44.10	696	47.01
80122	3200	655	35.70	662	37.30	668	38.70	675	40.40	681	41.80	688	43.50	694	44.90	707	48.10	719	51.10	731	54.20
85129	3400	694	42.40	701	44.10	707	45.70	713	47.30	719	48.90	725	50.50	731	52.20	743	55.50	755	58.80	766	61.90
90137	3600	734	50.00	740	51.70	746	53.50	751	55.00	757	56.80	763	58.60	769	60.40	780	63.70	791	67.20	802	70.60
95144	3800	773	58.20	779	59.20	784	61.80	790	63.80	796	65.70	801	67.40	807	69.40	817	72.80	828	76.60	839	80.40
100152	4000	813	67.60	818	69.50	823	71.30	829	73.40	834	75.30	840	77.40	845	79.30	855	83.00	865	86.80	875	90.60
105160	4200	853	78.00	857	79.70	863	82.00	868	84.00	873	86.00	878	88.00	883	90.10	893	94.10	903	98.30	912	102.00
110167	4400	892	89.10	897	91.20	902	93.40	907	95.60	912	97.70	916	100.00	921	102.00	931	106.00	940	110.00	949	114.00
115175	4600	932	101.00	936	103.00	941	105.00	946	108.00	950	110.00	955	112.00	959	114.00	969	119.00	978	124.00	987	128.00
120182	4800	972	115.00	976	117.00	981	120.00	985	122.00	989	124.00	994	126.00	998	129.00	1007	133.00	1016	138.00	1025	143.00
125190	5000	1011	129.00	1015	132.00	1020	134.00	1024	137.00	1029	139.00	1033	142.00	1037	144.00	1045	148.00	1054	154.00	1062	158.00
130198	5200	1051	145.00	1055	148.00	1059	150.00	1064	153.00	1068	155.00	1072	158.00	1076	160.00	1084	165.00	1092	170.00	1100	175.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
32549	1300	466	13.01																		
35053	1400	475	14.30	517	17.70																
37557	1500	485	15.50	525	19.00																
40061	1600	496	16.80	534	20.40	572	24.30														
42565	1700	509	18.40	545	22.10	580	25.90	615	30.01												
45068	1800	521	19.90	557	23.90	591	27.90	624	32.10	656	36.40										
47572	1900	535	21.70	569	25.70	602	29.90	633	34.00	665	38.60	695	43.20								
50076	2000	549	23.50	582	27.70	613	31.90	644	36.30	674	40.90	704	45.70	732	50.40						
55084	2200	579	27.70	609	32.00	638	36.50	667	41.20	695	46.00	723	51.00	750	56.10	777	61.40	803	66.60		
60091	2400	609	32.20	638	37.00	666	41.90	693	46.80	719	51.80	745	57.00	771	62.40	796	67.80	820	73.20	845	79.00
65099	2600	642	37.60	668	42.50	694	47.60	720	53.00	745	58.30	770	63.90	794	69.40	817	74.90	841	80.80	864	86.60
70106	2800	675	43.50	700	48.80	725	54.30	749	59.80	773	65.60	796	71.20	819	77.10	841	82.90	864	89.10	886	95.30
75114	3000	708	49.90	732	55.60	756	61.50	779	67.40	802	73.50	824	79.50	846	85.70	867	91.70	889	98.30	909	104.00
80122	3200	743	57.30	766	63.40	788	69.50	810	75.70	832	82.10	853	88.40	874	94.90	894	101.00	915	108.00	935	115.00
85129	3400	777	65.10	800	71.90	821	78.30	842	84.80	863	91.60	883	98.20	903	105.00	923	112.00	943	119.00	962	126.00
90137	3600	813	74.10	834	81.00	855	88.00	875	94.90	895	102.00	914	109.00	933	116.00	952	123.00	971	130.00	989	137.00
95144	3800	849	83.90	869	91.10	889	98.50	908	106.00	927	113.00	946	120.00	965	128.00	983	135.00	1001	143.00	1019	151.00
100152	4000	885	94.50	905	102.00	923	110.00	942	117.00	961	125.00	979	133.00	996	141.00	1014	149.00	1031	156.00	1048	164.00
105160	4200	922	106.00	940	114.00	959	122.00	977	130.00	994	138.00	1012	147.00	1029	155.00	1046	163.00	1063	171.00	1079	179.00
110167	4400	959	119.00	976	127.00	994	136.00	1012	144.00	1029	153.00	1045	161.00	1062	169.00	1078	178.00	1095	187.00	1111	195.00
115175	4600	995	132.00	1013	141.00	1030	150.00	1047	159.00	1063	168.00	1079	176.00	1095	185.00	1111	194.00	1127	203.00	1143	212.00
120182	4800	1033	147.00	1051	157.00	1066	166.00	1082	175.00	1098	184.00	1114	193.00	1130	203.00	1145	212.00	1160	221.00	1175	230.00
125190	5000	1070	163.00	1087	173.00	1102	182.00	1118	192.00	1134	202.00	1149	211.00	1164	221.00	1179	230.00	1194	240.00	1208	249.00
130198	5200	1108	180.00	1124	190.00	1139	200.00	1154	210.00	1169	220.00	1184	230.00	1199	240.00	1213	250.00	1227	260.00	1242	270.00

VOL CFM	OUT VEL	7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		15" SP
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# 3000 SERIES

## SIZE 3054

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3054	-20° to 150°F -29° to 66°C
CLASS I	714
CLASS II	931
CLASS III	1173
CLASS IV	—

DOUBLE WIDTH  
DOUBLE INLET

Wheel Diameter	54.25 inches	1378 mm
Wheel Circumference	14.20 feet	4.328 m
Inlet Diameter/Area	58.25 inches sq./36.98 sq. ft.	1480 mm/3.436 m <sup>2</sup>
Outlet Size/Area	57.29 x 76.92 inches I.D./30.60 sq. ft.	1455 x 1954 mm/2.843 m <sup>2</sup>
Tip Speed	14.20 x RPM ft./minute	4.328 x RPM m/minute
Maximum BHP	236.0 x (RPM ÷ 1000) <sup>3</sup> BHP	176.0 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¼" SP		½" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24451	800	187	1.55	206	2.05	223	2.55	241	3.12	258	3.71	274	4.31	296	5.55	320	7.07	344	8.88	368	10.90	392	13.12	416	15.55	440	18.17	464	20.97	488	23.93
27508	900	201	1.92	219	2.49	235	3.04	253	3.59	270	4.26	288	5.02	306	5.96	324	7.00	342	8.24	360	9.58	378	11.01	396	12.54	414	14.17	432	15.96	450	17.93
30554	1000	215	2.33	232	2.96	248	3.60	265	4.20	282	4.84	299	5.52	316	6.24	333	7.00	350	7.95	367	9.00	384	10.15	401	11.40	418	12.75	435	14.10	452	15.55
33620	1100	231	2.87	246	3.52	260	4.17	274	4.86	288	5.58	301	6.30	313	6.99	326	7.75	338	8.59	350	9.44	362	10.30	374	11.15	386	12.00	398	12.90	410	13.85
36677	1200	246	3.43	261	4.19	274	4.88	287	5.60	300	6.37	312	7.11	324	7.88	336	8.66	348	9.44	360	10.22	372	11.00	384	11.78	396	12.55	408	13.32	420	14.00
39733	1300	263	4.17	276	4.92	289	5.70	301	6.47	313	7.27	325	8.10	336	8.89	348	9.66	360	10.44	372	11.22	384	12.00	396	12.78	408	13.55	420	14.32	432	15.00
42790	1400	279	4.93	292	5.78	303	6.54	315	7.40	326	8.22	337	9.07	348	9.95	360	10.70	372	11.44	384	12.18	396	12.90	408	13.62	420	14.35	432	15.00	444	15.60
45846	1500	296	5.84	307	6.67	319	7.59	330	8.48	340	9.31	351	10.30	361	11.10	372	11.88	384	12.66	396	13.44	408	14.20	420	14.95	432	15.60	444	16.35	456	17.10
48902	1600	312	6.80	323	7.71	334	8.66	344	9.55	355	10.60	365	11.50	375	12.50	386	13.40	396	14.30	406	15.20	416	16.00	426	16.80	436	17.55	446	18.30	456	19.00
51959	1700	328	7.83	340	8.94	350	9.90	360	10.90	369	11.80	379	12.90	389	14.00	400	15.00	410	16.00	420	17.00	430	18.00	440	19.00	450	20.00	460	21.00	470	22.00
55015	1800	346	9.15	356	10.20	366	11.30	375	12.20	385	13.40	394	14.40	403	15.50	412	16.60	421	17.60	430	18.60	439	19.60	448	20.60	457	21.60	466	22.60	475	23.60
58072	1900	363	10.50	373	11.60	382	12.70	391	13.80	400	14.90	409	16.10	418	17.20	427	18.30	436	19.40	445	20.50	454	21.60	463	22.60	472	23.60	481	24.60	490	25.60
61128	2000	380	12.00	389	13.10	398	14.30	407	15.50	416	16.70	424	17.80	432	18.90	440	20.00	448	21.10	456	22.20	464	23.30	472	24.40	480	25.50	488	26.60	496	27.70
67241	2200	414	15.40	423	16.70	431	18.00	439	19.20	447	20.50	454	21.80	463	23.10	472	24.40	480	25.70	488	27.00	496	28.30	504	29.60	512	30.90	520	32.20	528	33.50
73354	2400	449	19.50	457	20.90	465	22.30	472	23.70	480	25.10	487	26.50	494	27.90	501	29.30	508	30.70	515	32.10	522	33.50	529	34.90	536	36.30	543	37.70	550	39.10
79466	2600	484	24.30	491	25.70	499	27.40	506	28.90	512	30.20	519	31.80	526	33.30	534	34.80	541	36.30	548	37.80	555	39.30	562	40.80	569	42.30	576	43.80	583	45.30
85579	2800	519	29.80	526	31.50	533	33.10	539	34.70	546	36.40	552	37.90	559	39.70	567	41.40	574	43.10	581	44.80	588	46.60	595	48.30	602	50.00	609	51.70	616	53.40
91692	3000	554	36.10	561	38.00	567	39.60	573	41.30	579	43.10	585	44.80	592	46.60	599	48.30	606	50.00	613	51.70	620	53.40	627	55.10	634	56.80	641	58.50	648	60.20
97805	3200	589	43.20	595	45.10	601	46.90	607	48.80	613	50.70	619	52.70	625	54.60	631	56.60	637	58.50	643	60.50	649	62.50	655	64.50	661	66.50	667	68.50	673	70.50
103918	3400	625	51.50	630	53.30	636	55.40	642	57.50	647	59.30	653	61.40	658	63.30	664	65.30	669	67.30	675	69.30	681	71.30	687	73.30	693	75.30	699	77.30	705	79.30
110030	3600	660	60.40	665	62.50	671	64.80	676	66.80	682	69.10	687	71.10	692	73.20	697	75.20	702	77.20	707	79.20	712	81.20	717	83.20	722	85.20	727	87.20	732	89.20
116143	3800	696	70.70	701	72.90	706	75.10	711	77.40	716	79.60	721	81.80	726	84.10	731	86.40	736	88.60	741	90.90	746	93.10	751	95.40	756	97.60	761	99.90	766	102.10
122256	4000	731	81.80	736	84.20	741	86.60	746	89.00	751	91.50	756	93.90	761	96.40	766	98.80	771	101.20	776	103.60	781	106.00	786	108.40	791	110.80	796	113.20	801	115.60
128369	4200	767	94.40	771	96.60	776	99.20	781	102.00	786	104.00	791	107.00	796	109.00	801	112.00	806	114.00	811	117.00	816	119.00	821	122.00	826	124.00	831	127.00	836	129.00
134482	4400	802	108.00	807	111.00	811	113.00	816	116.00	820	118.00	825	121.00	829	124.00	833	127.00	838	130.00	842	133.00	846	136.00	850	139.00	854	142.00	858	145.00	862	148.00
140594	4600	838	123.00	843	126.00	847	128.00	851	131.00	855	134.00	859	137.00	864	140.00	868	143.00	872	146.00	876	149.00	880	152.00	884	155.00	888	158.00	892	161.00	896	164.00
146707	4800	874	139.00	878	142.00	882	145.00	886	147.00	890	150.00	894	153.00	898	156.00	902	159.00	906	162.00	910	165.00	914	168.00	918	171.00	922	174.00	926	177.00	930	180.00
152820	5000	909	156.00	914	160.00	918	163.00	922	167.00	925	168.00	929	171.00	933	174.00	937	177.00	941	180.00	945	183.00	949	186.00	953	189.00	957	192.00	961	195.00	965	198.00
158933	5200	945	176.00	949	179.00	953	182.00	957	185.00	961	188.00	964	191.00	968	194.00	972	197.00	976	200.00	980	203.00	983	206.00	987	209.00	991	212.00	995	215.00	999	218.00

VOL	OUT	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		CFM	VEL	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
39733	1300	421	16.01																		
42790	1400	429	17.50	466	21.50																
45846	1500	438	19.00	474	23.20																
48902	1600	448	20.60	482	24.90																
51959	1700	459	22.40	492	27.00	524	31.70	555	36.70												
55015	1800	470	24.30	502	29.00	533	34.00	563	39.10	592	44.40										
58072	1900	482	26.30	513	31.30	542	36.20	571	41.50	599	46.90	627	52.60								
61128	2000	495	28.70	524	33.60	553	38.90	581	44.40	608	49.90	627	52.60	635	55.70	661	61.60				
67241	2200	521	33.50	549	39.00	576	44.70	601	50.10	627	56.10	652	62.20	676	68.20	701	74.80				
73354	2400	549	39.20	575	45.10	600	51.00	624	56.90	648	63.10	672	69.50	695	76.00	718	82.70	740	89.40	762	96.20
76467	2600	566	45.60	602	51.70	626	56.10	649	62.50	672	71.10	696	77.70	719	84.50	743	91.30	766	98.00	789	105.00
85579	2800	607	52.60	631	59.50	653	66.00	675	72.90	698	79.60	717	86.60	738	93.80	759	101.00	779	109.00	799	116.00
91692	3000	638	60.70	660	67.80	681	74.80	702	82.10	723	89.50	743	96.90	762	104.00	782	112.00	801	119.00	820	127.00
97805	3200	669	69.60	690	77.10	710	84.60	730	92.20	750	100.00	769	108.00	787	115.00	806	123.00	825	132.00	843	140.00
103415	3400	703	79.20	720	87.20	738	96.00	759	103.00	779	111.00	797	119.00	814	126.00	832	134.00	849	144.00	867	153.00
110030	3600	732	90.10	751	98.40	770	107.00	788	115.00	806	124.00	824	133.00	841	141.00	858	150.00	875	159.00	892	168.00
116143	3800	764	102.00	782	110.00	800	119.00	818	128.00	835	137.00	852	146.00	869	156.00	886	165.00	902	174.00	918	183.00
122256	4000	797	115.00	814	124.00	832	134.00	848	143.00	865	152.00	882	162.00	898	171.00	913	180.00	929	190.00	945	200.00
128369	4200	830	129.00	847	137.20	863	145.00	879	153.00	895	161.00	911	170.00	927	178.00	942	186.00	957	195.00	973	203.00
134482	4400	863	144.00	879	154.00	895	165.00	911	175.00	926	185.00	942	196.00	956	206.00	971	216.00	986	227.00	1001	238.00
140594	4600	896	161.00	912	172.00	927	182.00	942	193.00	957	203.00	972	214.00	986	225.00	1001	236.00	1015	247.00	1029	258.00
146707	4800	929	178.00	945	190.00	960	201.00	974	212.00	989	224.00	1003	235.00	1017	246.00	1031	257.00	1045	269.00	1058	280.00
152820	5000	962	196.00	978	207.00	992	217.00	1007	229.00	1021	241.00	1035	252.00	1048	263.00	1062	275.00	1075	292.00	1088	303.00
158933	5200	997	218.00	1011	231.00	1025	243.00	1039	255.00	1053	267.00	1066	279.00	1079	291.00	1092	303.00	1105	316.00	1118	328.00

# SILENTVANE™

## SIZE 3060

DOUBLE WIDTH  
DOUBLE INLET

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

Wheel Diameter	60.00 inches	1524 mm
Wheel Circumference	15.71 feet	4.785 m
Inlet Diameter/Area	64.0 inches sq./44.64 sq. ft.	1626 mm/4.147 m <sup>2</sup>
Outlet Size/Area	63.29 x 84.92 inches I.D./37.33 sq. ft.	1608 x 2157 mm/3.468 m <sup>2</sup>
Tip Speed	15.71 x RPM ft./minute	4.785 x RPM m/minute
Maximum BHP	389.9 x (RPM ÷ 1000) <sup>3</sup> BHP	290.8 x (RPM ÷ 1000) <sup>3</sup> kW

SIZE 3060	-20° to 150°F	-29° to 66°C
CLASS I	644	
CLASS II	840	
CLASS III	1059	
CLASS IV	—	

VOL CFM	OUT VEL	¼" SP		¾" SP		1" SP		1½" SP		2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29822	800	169	1.89	186	2.50	201	3.08	218	3.82	233	4.52	247	5.22	261	6.11	277	7.17	293	8.29	308	9.44	323	10.63	338	11.86	353	13.13	368	14.44
33550	900	182	2.36	197	2.99	212	3.69	226	4.39	240	5.13	254	5.94	267	6.73	282	7.63	299	8.64	314	9.64	329	10.68	344	11.76	359	12.88	374	14.04
37278	1000	194	2.84	210	3.63	223	4.33	237	5.15	250	5.96	262	6.72	275	7.63	288	8.45	306	9.43	321	10.43	336	11.47	351	12.55	366	13.67	381	14.83
41006	1100	208	3.47	222	4.28	235	5.09	247	5.89	261	6.80	271	7.60	282	8.45	293	9.25	308	10.25	323	11.25	338	12.25	353	13.25	368	14.25	383	15.25
44734	1200	222	4.18	235	5.06	247	5.91	259	6.81	271	7.77	282	8.68	293	9.64	308	10.63	323	11.63	338	12.63	353	13.63	368	14.63	383	15.63	398	16.63
48461	1300	237	5.04	249	5.98	261	6.95	272	7.90	282	8.79	293	9.82	303	10.80	314	11.80	323	12.80	333	13.80	344	14.80	354	15.80	364	16.80	374	17.80
52189	1400	252	6.01	263	6.99	274	8.01	285	9.07	295	10.10	305	11.10	314	12.10	323	13.10	333	14.10	343	15.10	353	16.10	363	17.10	373	18.10	383	19.10
55917	1500	267	7.10	277	8.11	288	9.25	298	10.30	307	11.30	317	12.50	326	13.60	334	14.60	344	15.80	354	16.80	364	17.80	374	18.80	384	19.80	394	20.80
59645	1600	282	8.30	292	9.43	301	10.50	311	11.70	320	12.80	329	14.00	338	15.20	347	16.40	356	17.60	365	18.80	374	20.00	383	21.20	392	22.40	401	23.60
63373	1700	297	9.63	306	10.80	316	12.10	325	13.30	334	14.50	342	15.70	351	17.00	360	18.30	369	19.60	378	20.90	387	22.20	396	23.50	405	24.80	414	26.10
67100	1800	312	11.10	321	12.40	330	13.70	339	15.00	347	16.20	355	17.50	364	18.90	373	20.20	382	21.60	391	22.90	400	24.30	409	25.60	418	26.90	427	28.20
70828	1900	327	12.70	336	14.10	345	15.50	353	16.80	361	18.20	369	19.50	377	20.90	386	22.30	395	23.70	404	25.10	413	26.50	422	27.90	431	29.30	440	30.70
74556	2000	342	14.50	351	16.00	359	17.40	367	18.80	375	20.20	383	21.70	390	23.10	400	24.60	408	26.10	416	27.60	424	29.10	432	30.60	440	32.10	448	33.60
82012	2200	373	18.60	381	21.00	389	21.90	403	24.90	411	26.60	419	28.30	427	30.00	435	31.70	443	33.40	451	35.10	459	36.80	467	38.50	475	40.20	483	41.90
89467	2400	405	23.70	412	25.40	419	27.10	426	28.80	433	30.60	439	32.10	446	33.90	453	35.70	460	37.50	467	39.30	474	41.10	481	42.90	488	44.70	495	46.50
96923	2600	436	29.40	443	31.30	449	33.00	456	35.00	462	36.80	468	38.60	475	40.60	482	42.60	489	44.60	496	46.60	503	48.60	510	50.60	517	52.60	524	54.60
104378	2800	468	36.10	474	38.10	480	40.00	486	42.10	492	44.00	498	46.10	504	48.10	510	50.10	516	52.10	522	54.10	528	56.10	534	58.10	540	60.10	546	62.10
111834	3000	499	43.60	505	45.80	511	48.00	517	50.30	522	52.20	528	54.50	533	56.80	539	59.10	544	61.40	549	63.70	554	66.00	559	68.30	564	70.60	569	72.90
119290	3200	531	52.40	537	54.80	542	57.00	548	59.50	553	61.70	558	63.90	563	66.10	568	68.30	573	70.50	578	72.70	583	74.90	588	77.10	593	79.30	598	81.50
126745	3400	563	62.30	568	64.60	574	67.40	579	69.80	584	72.20	589	74.70	594	77.10	599	79.50	604	81.90	609	84.30	614	86.70	619	89.10	624	91.50	629	93.90
134201	3600	595	73.30	600	75.90	605	78.60	610	81.20	615	83.90	620	86.60	624	88.90	633	93.90	638	96.20	643	98.50	648	100.80	653	103.10	658	105.40	663	107.70
141656	3800	627	85.60	632	88.50	636	90.90	641	93.80	646	96.70	651	99.60	656	102.50	661	105.40	666	108.30	671	111.20	676	114.10	681	117.00	686	119.90	691	122.80
149112	4000	659	99.20	664	102.00	668	104.80	672	107.60	677	110.40	681	113.20	686	116.00	691	118.80	696	121.60	701	124.40	706	127.20	711	130.00	716	132.80	721	135.60
156568	4200	691	114.00	696	118.00	700	121.00	704	123.00	708	126.00	712	129.00	717	133.00	722	137.00	727	141.00	732	145.00	737	149.00	742	153.00	747	157.00	752	161.00
164023	4400	724	131.00	728	134.00	732	137.00	736	141.00	740	144.00	743	146.00	748	150.00	755	156.00	763	162.00	771	168.00	779	174.00	787	180.00	795	186.00	803	192.00
171479	4600	756	149.00	760	153.00	764	156.00	767	159.00	771	162.00	775	166.00	779	169.00	786	175.00	794	181.00	802	187.00	810	193.00	818	199.00	826	205.00	834	211.00
178934	4800	788	169.00	792	172.00	795	175.00	799	179.00	803	183.00	806	186.00	810	189.00	817	195.00	824	201.00	831	207.00	838	213.00	845	219.00	852	225.00	859	231.00
186390	5000	820	190.00	824	194.00	827	197.00	831	201.00	834	204.00	838	208.00	842	212.00	848	219.00	855	226.00	862	233.00	869	240.00	876	247.00	883	254.00	890	261.00
193846	5200	852	213.00	856	217.00	859	220.00	863	225.00	866	228.00	869	231.00	873	236.00	880	244.00	886	250.00	893	258.00	900	266.00	907	274.00	914	282.00	921	290.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
48461	1300	380	19.60																		
52189	1400	387	21.20																		
55917	1500	395	23.00			428	28.30														
59645	1600	405	25.20			436	30.50			466	36.10										
63373	1700		414	27.20	444	32.80	473	38.60	501	44.60											
67100	1800		425	29.70	453	35.30	481	41.30	508	47.50	535	54.20									
70828	1900		436	32.30	463	38.10	490	44.30	516	50.60	542	57.40									
74556	2000		447	34.90	473	40.90	499	47.30	525	54.10	549	60.70	567	64.30							
													567	64.30							
													574	68.00	597	75.10					
82012	2200	471	41.00	496	47.60	520	54.40	543	61.10	566	68.30	589	75.80	611	83.30	633	91.10	655	99.30		
89467	2400	496	47.90	519	54.80	542	62.10	564	69.50	586	77.10	607	84.80	628	92.70	648	101.00	669	109.00		
96923	2600	521	55.30	546	63.20	566	70.70	584	78.30	606	86.30	628	94.50	648	103.00	666	111.00	685	119.00	699	129.00
104378	2800	543	64.10	569	72.20	590	80.60	609	88.50	629	97.20	648	106.00	667	115.00	685	123.00	704	131.00	722	142.00
111834	3000	575	73.60	595	82.20	615	91.20	634	100.00	652	109.00	670	118.00	688	127.00	706	136.00	723	145.00	741	155.00
112940	3200	603	84.40	622	93.50	641	103.00	659	112.00	677	122.00	694	131.00	711	141.00	728	150.00	744	160.00	761	170.00
126745	3400	631	95.50	649	104.60	668	113.00	686	122.00	702	131.00	718	140.00	735	149.00	751	158.00	767	167.00	783	187.00
134201	3600	660	109.00	678	120.00	695	130.00	711	140.00	728	151.00	744	161.00	759	172.00	775	183.00	790	193.00	805	204.00
141656	3800	689	124.00	706	135.00	722	145.00	738	156.00	754	167.00	769	178.00	784	189.00	799	200.00	814	212.00	828	222.00
149112	4000	719	140.00	735	151.00	750	162.00	766	173.00	781	185.00	797	196.00	812	207.00	827	218.00	842	229.00	856	240.00
156233	4200	748	156.00	764	166.00	779	181.00	794	193.00	808	204.00	823	216.00	836	228.00	850	240.00	864	253.00	878	266.00
164023	4400	778	175.00	793	188.00	807	200.00	822	213.00	836	225.00	850	238.00	863	250.00	876	263.00	890	276.00	903	289.00
171479	4600	808	195.00	822	208.00	836	221.00	850	234.00	864	248.00	877	261.00	890	274.00	903	287.00	916	300.00	929	314.00
178934	4800	838	217.00	852	230.00	866	244.00	879	255.00	892	271.00	905	285.00	918	299.00	930	312.00	943	327.00	955	340.00
186393	5000	868	240.00	882	253.00	895	269.00	908	283.00	921	298.00	933	311.00	946	326.00	958	340.00	970	355.00	982	369.00
193846	5200	899	265.00	912	280.00	925	295.00	937	310.00	950	325.00	962	340.00	974	355.00	986	370.00	997	384.00	1009	399.00

# 3000 SERIES

## SIZE 3066

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3066	-20° to 150°F -29° to 66°C
CLASS I	589
CLASS II	768
CLASS III	968
CLASS IV	—

Wheel Diameter	66.00 inches	1676 mm
Wheel Circumference	17.28 feet	5.267 m
Inlet Diameter/Area	70.0 inches sq./53.40 sq. ft.	1778 mm/4.961 m <sup>2</sup>
Outlet Size/Area	69.60 x 94.17 inches I.D./45.52 sq. ft.	1768 x 2392 mm/4.229 m <sup>2</sup>
Tip Speed	17.28 x RPM ft./minute	5.264 x RPM m/minute
Maximum BHP	589.4 x (RPM ÷ 1000) <sup>3</sup> BHP	439.5 x (RPM ÷ 1000) <sup>3</sup> kW

VOL CFM	OUT VEL	¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		¾" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36399	800	155	2.35	170	3.07	184	3.81	198	4.62	212	5.50	226	6.48	240	7.44	254	8.48	268	9.56	282	10.68
40949	900	166	2.88	180	3.68	194	4.55	207	5.43	219	6.30	231	7.22	244	8.30	257	9.26	270	10.28	283	11.36
45499	1000	177	3.47	191	4.40	203	5.27	216	6.28	228	7.28	239	8.24	250	9.26	261	10.32	272	11.44	283	12.60
50049	1100	190	4.25	203	5.27	215	6.28	226	7.26	237	8.30	248	9.40	258	10.40	268	11.44	278	12.52	288	13.68
54599	1200	203	5.14	216	6.32	226	7.29	237	8.41	247	9.48	257	10.60	267	11.80	277	13.00	286	14.16	296	15.36
59149	1300	217	6.23	228	7.38	238	8.49	248	9.64	258	10.80	267	12.00	277	13.30	285	14.56	295	15.80	303	17.04
63699	1400	231	7.46	241	8.66	250	9.79	260	11.10	269	12.30	278	13.60	287	14.90	294	16.24	304	17.56	311	18.92
68249	1500	244	8.72	254	10.10	263	11.30	272	12.60	281	14.00	289	15.30	298	16.70	306	18.00	314	19.40	321	20.80
72798	1600	258	10.20	267	11.60	276	13.00	285	14.50	293	15.80	301	17.20	309	18.70	317	20.16	325	21.60	332	23.04
77348	1700	272	11.90	280	13.30	289	14.80	297	16.30	305	17.80	313	19.30	320	20.70	328	22.16	336	23.60	343	25.04
81898	1800	286	13.80	294	15.30	302	16.80	310	18.40	318	20.10	325	21.60	332	23.10	340	24.56	347	26.00	354	27.44
86448	1900	300	15.80	308	17.50	316	19.20	323	20.70	330	22.30	338	24.10	345	25.80	352	27.20	359	28.96	366	30.72
90998	2000	314	18.00	321	19.70	329	21.50	336	23.20	343	24.90	350	26.70	357	28.50	364	30.30	371	32.16	378	34.00
100098	2200	342	23.10	349	25.00	356	27.00	363	29.00	369	30.70	376	32.80	382	34.60	390	36.60	397	38.56	404	40.40
109198	2400	371	29.30	378	31.50	384	33.50	390	35.60	396	37.60	402	39.70	408	41.80	415	43.90	421	46.00	428	48.16
118297	2600	400	36.50	406	38.80	412	41.10	418	43.40	423	45.40	429	47.80	435	50.20	441	52.60	446	55.00	452	57.44
127397	2800	429	44.80	435	47.40	440	49.70	445	51.90	451	54.60	456	56.90	461	59.30	467	61.70	472	64.10	477	66.56
136497	3000	458	54.30	463	56.90	469	59.80	474	62.40	479	64.90	484	67.60	489	70.20	494	72.80	499	75.40	504	78.00
145597	3200	487	65.10	492	67.90	497	70.70	502	73.60	507	76.50	511	79.50	516	81.90	521	84.40	525	86.90	530	89.40
154697	3400	516	77.20	521	80.30	526	83.40	530	86.10	535	89.30	539	92.00	544	95.30	548	98.60	552	101.00	557	104.40
163796	3600	546	91.20	550	94.20	554	97.10	559	101.00	563	104.00	568	107.00	572	110.00	576	113.00	580	116.00	584	119.00
172896	3800	575	106.00	579	110.00	583	113.00	588	117.00	592	120.00	596	123.00	600	126.00	604	129.00	608	132.00	612	135.00
181996	4000	604	123.00	609	127.00	612	130.00	616	134.00	620	137.00	624	141.00	628	144.00	632	147.00	636	150.00	640	153.00
191096	4200	634	142.00	638	146.00	641	149.00	645	153.00	649	157.00	653	161.00	656	164.00	660	167.00	664	170.00	668	173.00
200196	4400	663	162.00	667	166.00	671	170.00	674	174.00	678	178.00	681	181.00	685	186.00	689	190.00	692	193.00	696	197.00
209295	4600	693	185.00	696	189.00	700	193.00	703	197.00	707	201.00	710	205.00	714	210.00	717	214.00	720	217.00	724	221.00
218395	4800	722	209.00	726	214.00	729	218.00	732	222.00	736	226.00	739	230.00	742	234.00	745	238.00	749	242.00	752	246.00
227495	5000	752	236.00	755	240.00	758	244.00	761	248.00	765	254.00	768	258.00	771	262.00	774	266.00	777	270.00	780	274.00
236595	5200	781	264.00	785	270.00	788	274.00	791	279.00	794	283.00	797	288.00	800	292.00	806	301.00	812	310.00	818	319.00

VOL CFM	OUT VEL	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
59149	1300	346	23.90																		
63699	1400	353	26.00	384	32.10																
68249	1500	360	28.10	390	34.50																
72798	1600	369	30.70	397	37.20	424	44.00														
77348	1700	378	33.40	405	40.20	431	47.20	457	54.70												
81898	1800	388	36.40	411	43.70	439	50.70	463	58.10	487	66.00										
86448	1900	398	39.60	423	46.80	447	54.20	470	61.80	494	70.20	516	78.40								
90998	2000	408	42.80	432	50.20	456	58.20	478	65.90	500	74.10	522	82.70	544	91.80						
100098	2200	430	50.30	452	58.10	474	66.40	496	75.20	516	83.50	537	92.70	557	102.00	577	111.00	597	121.00		
109198	2400	453	58.70	474	67.30	495	76.30	515	85.30	534	94.10	553	103.00	572	113.00	591	123.00	610	134.00	628	144.00
118297	2600	477	68.30	497	77.60	516	86.80	535	96.30	554	106.00	572	116.00	590	126.00	607	136.00	625	147.00	642	158.00
127397	2800	501	78.80	520	88.70	539	99.00	557	109.00	574	119.00	591	129.00	609	141.00	625	151.00	642	162.00	658	173.00
136497	3000	526	90.70	544	101.00	562	112.00	579	123.00	596	134.00	612	144.00	629	156.00	644	167.00	660	178.00	676	190.00
145597	3200	552	104.00	569	115.00	586	127.00	602	138.00	618	149.00	634	161.00	649	172.00	665	185.00	680	197.00	694	208.00
154697	3400	578	119.00	594	130.00	610	142.00	626	155.00	641	166.00	656	178.00	671	191.00	686	204.00	700	216.00	714	228.00
163796	3600	604	135.00	620	147.00	635	160.00	650	172.00	665	185.00	680	199.00	694	211.00	708	224.00	721	237.00	735	250.00
172896	3800	631	153.00	646	166.00	661	179.00	675	192.00	689	206.00	703	219.00	717	233.00	730	246.00	744	260.00	757	274.00
181996	4000	658	172.00	672	186.00	687	200.00	700	214.00	714	228.00	727	242.00	741	257.00	754	271.00	766	284.00	779	299.00
191096	4200	685	193.00	699	208.00	713	223.00	726	237.00	739	252.00	752	266.00	765	282.00	777	296.00	790	311.00	802	326.00
200196	4400	712	216.00	726	232.00	739	247.00	752	262.00	765	278.00	777	293.00	789	308.00	802	324.00	813	339.00	825	355.00
209295	4600	740	241.00	753	257.00	766	274.00	778	289.00	790	305.00	802	321.00	814	337.00	826	353.00	838	370.00	849	386.00
218395	4800	768	268.00	780	285.00	792	302.00	805	319.00	816	334.00	828	352.00	840	369.00	851	385.00	862	402.00	873	418.00
227495	5000	796	297.00	808	315.00	820	332.00	831	349.00	843	367.00	854	384.00	865	401.00	876	419.00	887	436.00	898	454.00
236595	5200	824	329.00	835	346.00	847	363.00	858	382.00	869	400.00	880	418.00	891	437.00	902	455.00	912	473.00	923	492.00

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

SIZE 3073	-20° to 150°F -29° to 66°C
CLASS I	532
CLASS II	693
CLASS III	874
CLASS IV	—

[illegible]

50

# 3000 SERIES

## SIZE 3081

MAXIMUM CLASS OPERATING RPM  
FAN TEMPERATURE

DOUBLE WIDTH  
DOUBLE INLET

SIZE 3081	-20° to 150°F -29° to 66°C
CLASS I	479
CLASS II	625
CLASS III	—
CLASS IV	—

Wheel Diameter	80.75 inches	2051 mm
Wheel Circumference	21.14 feet	6.443 m
Inlet Diameter/Area	89.75 inches sq./87.20 sq. ft.	2280 mm/8.101 m <sup>2</sup>
Outlet Size/Area	85.11 x 114.48 inches I.D./67.67 sq. ft.	2162 x 2908 mm/6.287 m <sup>2</sup>
Tip Speed	21.14 x RPM ft./minute	6.440 x RPM m/minute
Maximum BHP	1733.0 x (RPM ÷ 1000) <sup>3</sup> BHP	1292. x (RPM ÷ 1000) <sup>3</sup> kW

VOL	OUT	¼" SP		⅜" SP		½" SP		⅝" SP		¾" SP		⅞" SP		1" SP		1¼" SP		1½" SP		1¾" SP	
CFM	VEL	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
54149	800	125	3.38	138	4.50	150	5.66	162	6.92	173	8.18	184	9.53	199	12.30	204	13.80	222	17.10	243	22.40
60917	900	135	4.25	147	5.49	158	6.74	169	8.09	179	9.40	189	10.80	204	12.30	222	17.10	243	22.40	264	28.80
67686	1000	145	5.24	156	6.58	166	7.90	176	9.31	185	10.60	195	12.30	210	15.40	227	18.90	243	22.40	269	31.40
74455	1100	155	6.34	165	7.76	175	9.29	184	10.70	193	12.30	202	13.90	210	15.40	227	18.90	243	22.40	275	34.30
81223	1200	166	7.72	175	9.21	184	10.80	193	12.40	201	14.00	210	15.80	218	17.50	233	20.90	249	24.90	282	37.60
87992	1300	177	9.28	185	10.80	194	12.60	202	14.30	210	16.00	218	17.90	226	19.80	240	23.30	255	27.30	269	31.40
94760	1400	188	11.00	196	12.80	204	14.60	212	16.50	219	18.20	227	20.20	234	22.10	248	26.00	262	30.20	275	34.30
101529	1500	199	13.00	206	14.70	214	16.70	221	18.60	229	20.80	235	22.50	243	24.80	256	28.80	269	33.10	282	37.60
108298	1600	210	15.10	217	17.10	225	19.40	231	21.10	238	23.30	245	25.50	252	27.70	264	31.80	277	36.40	289	40.90
115066	1700	221	17.50	228	19.70	235	21.90	242	24.20	248	26.20	255	28.60	261	30.80	273	35.20	285	39.90	297	44.80
121835	1800	232	20.20	239	22.50	246	25.00	252	27.20	258	29.40	265	32.00	271	34.40	282	38.90	294	44.00	305	48.80
128603	1900	244	23.30	250	25.60	256	28.00	262	30.30	269	33.20	275	35.70	280	37.80	292	43.10	303	48.20	314	53.50
135372	2000	255	26.50	261	29.00	267	31.60	273	34.10	279	36.80	285	39.50	290	41.90	301	47.20	312	52.60	322	57.80
148909	2200	278	34.00	284	37.00	290	40.00	295	42.60	300	45.30	306	48.50	311	51.20	321	56.90	331	62.70	341	68.70
162446	2400	301	42.90	307	46.30	312	49.30	317	52.40	322	55.50	327	58.60	332	61.80	341	67.70	351	74.40	360	80.60
175984	2600	325	53.70	330	57.10	335	60.60	340	64.10	344	67.00	349	70.60	353	73.60	362	80.30	371	87.30	380	94.30
189521	2800	349	66.20	353	69.50	358	73.40	362	76.70	366	80.00	371	84.10	375	87.50	384	95.10	392	102.00	400	109.00
203058	3000	372	79.80	376	83.50	381	87.90	385	91.70	389	95.40	393	99.20	397	103.00	405	111.00	413	119.00	421	127.00
216595	3200	396	96.00	400	100.00	404	104.00	408	108.00	412	113.00	416	117.00	420	121.00	427	129.00	435	138.00	442	146.00
230132	3400	420	114.00	423	118.00	427	122.00	431	127.00	435	132.00	438	136.00	442	140.00	449	149.00	456	158.00	463	166.00
243670	3600	443	134.00	447	139.00	451	144.00	454	148.00	458	153.00	461	157.00	465	162.00	472	172.00	478	180.00	485	190.00
257207	3800	467	156.00	471	162.00	474	166.00	478	172.00	481	176.00	484	181.00	488	187.00	494	196.00	501	206.00	507	216.00
270744	4000	491	181.00	494	186.00	498	192.00	501	197.00	504	202.00	507	207.00	510	212.00	517	223.00	523	233.00	529	244.00

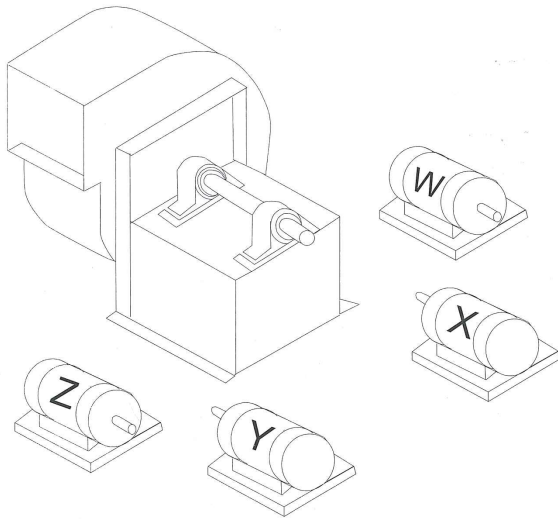
VOL	OUT	2" SP		2½" SP		3" SP		3½" SP		4" SP		4½" SP		5" SP		5½" SP		6" SP		6½" SP	
CFM	VEL	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
87992	1300	282	35.30																		
94760	1400	288	38.60	313	47.60																
101529	1500	294	41.90	318	51.20																
108298	1600	301	45.70	324	55.30	346	65.40														
115066	1700	308	49.50	330	59.40	352	70.30	373	81.40												
121835	1800	316	53.90	337	64.20	358	75.20	378	86.50	398	98.50										
128603	1900	324	58.50	345	69.50	364	80.20	384	92.20	403	104.00	421	116.00								
135372	2000	332	63.20	352	74.50	371	85.80	390	98.00	408	110.00	426	123.00	444	136.00						
148909	2200	350	74.30	369	86.60	387	99.00	404	111.00	421	124.00	438	138.00	455	152.00	471	166.00	487	180.00		
162446	2400	369	87.00	386	100.00	403	113.00	419	126.00	435	139.00	451	154.00	467	168.00	482	183.00	497	198.00	512	213.00
175984	2600	388	101.00	405	115.00	420	128.00	436	143.00	451	157.00	466	172.00	481	187.00	495	202.00	510	219.00	524	235.00
189521	2800	408	117.00	424	132.00	439	147.00	453	161.00	468	177.00	482	192.00	496	208.00	510	224.00	523	240.00	537	258.00
203058	3000	428	134.00	443	150.00	458	166.00	471	181.00	485	197.00	499	214.00	512	231.00	525	247.00	538	265.00	551	282.00
216595	3200	449	154.00	463	170.00	477	187.00	490	204.00	503	221.00	516	238.00	529	256.00	541	273.00	554	291.00	566	309.00
230132	3400	470	175.00	484	194.00	497	211.00	510	229.00	522	246.00	535	265.00	547	283.00	559	302.00	570	319.00	582	339.00
243670	3600	491	199.00	504	217.00	517	237.00	529	255.00	541	274.00	553	293.00	565	313.00	576	331.00	588	352.00	599	371.00
257207	3800	513	225.00	526	246.00	538	265.00	549	284.00	561	304.00	573	325.00	584	345.00	595	365.00	606	386.00	616	405.00
270744	4000	535	254.00	547	275.00	559	296.00	570	316.00	581	337.00	592	358.00	603	379.00	614	401.00	624	421.00		

Underlined figures in columns approximate Max. Static Efficiency and Quietest Selection. CL. I □ CL. II ■ CL. III ■ CL. IV ■  
Refer to factors on page 54 to convert numbers above to the desired metric units.  
The standard AMCA class range is shown by the shaded areas. Standard carbon steel fans may be used up to the Maximum Design RPM as listed above for each fan class.  
For minimum motor size required see "Fan Starting Requirements," page 9.  
If the Maximum Safe Operating RPM is not shown, consult the factory.  
Performance certified is for Installation Type B - Free Inlet, Ducted Outlet.  
Performance ratings do not include the effects of appurtenances. Power rating does not include transmission losses.  
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70 F & 0 Ft. elevation (1.2 kg/m<sup>3</sup> at 21.1°C & 0 m).

# SILENTVANE™

## AMCA STANDARD ARRANGEMENTS AND DISCHARGES

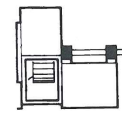
### Motor Position, Belt Drive



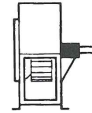
The location of the motor is determined by facing the drive side of the fan and designating the motor positions by the letters W, X, Y or Z, as the case may be.

### Arrangements of Drive For Centrifugal Fans

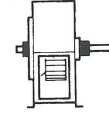
The following tables illustrate designations for fan drive operation adopted by the Air Movement and Control Association.



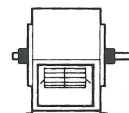
ARR. 1 SWSI  
For belt drive or direct connection. Wheel overhung. Two bearings on base.



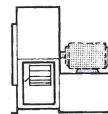
ARR. 2 SWSI  
For belt drive or direct connection. Wheel overhung. Bearings in bracket supported by fan housing.



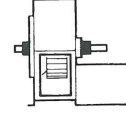
ARR. 3 SWSI  
For belt drive or direct connection. One bearing on each side and supported by fan housing. Not recommended in sizes 27-inch diameter wheel and smaller.



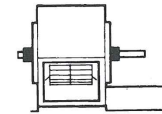
ARR. 3 DWDI  
For belt drive or direct connection. One bearing on each side and supported by fan housing.



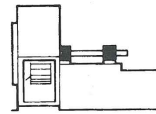
ARR. 4 SWSI  
For direct connection. Wheel over-hung on prime mover shaft. No bearings on fan. Prime mover mounted on base integrally attached to fan housing.



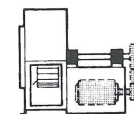
ARR. 7 SWSI  
For direct connection. Arrangement 3 plus base for prime mover. Not recommended in sizes 27-inch diameter wheel and smaller.



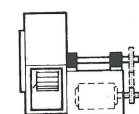
ARR. 7 DWDI  
For direct connection. Arrangement 3 plus base for prime mover.



ARR. 8 SWSI  
For direct connection. Arrangement 1 plus extended base for prime mover.



ARR. 9 SWSI  
For belt drive. Wheel overhung. Two bearings, with prime mover outside base.

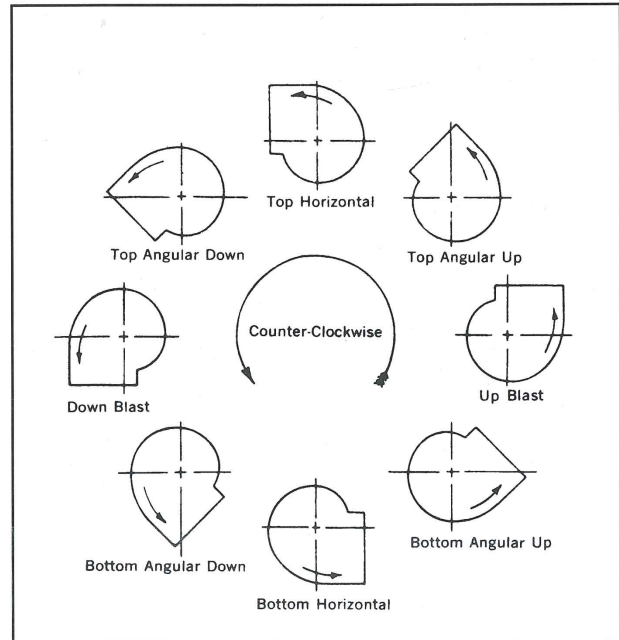
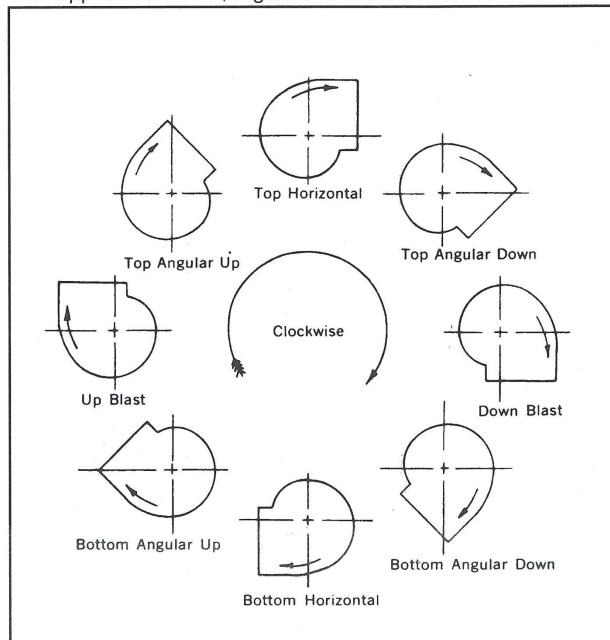


ARR. 10 SWSI  
For belt drive. Wheel overhung. Two bearings, with prime mover inside base.

## DESIGNATION FOR DIRECTION OF ROTATION AND DISCHARGE

Direction of Rotation is determined from the drive side for either single or double width, or single or double inlet fans. (The driving side of a single inlet fan is considered to be the side opposite the inlet, regardless of the actual location of the

drive.) For fan inverted for ceiling suspension, the Direction of Rotation and Discharge is determined when the fan is resting on the floor.



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# 3000 SERIES

## TYPICAL SPECIFICATIONS

### FURNISH AND INSTALL WHERE SHOWN ON THE PLANS, 3000 SERIES, B.I. CENTRIFUGAL FANS.

**PERFORMANCE:** Fans shall be licensed to bear the AMCA Air & Sound Performance Seal with performance ratings based on tests conducted in accordance with AMCA Standard 210 and AMCA Standard 300, and comply with the requirements of the AMCA Certified Ratings Program. Fans shall have a sharply rising pressure characteristic which shall extend throughout the operating range and continue to rise well beyond the efficiency peak to insure quiet, stable operation under most conditions. The horsepower characteristic shall be truly non-overloading and shall peak at maximum efficiency and within the normal selection range.

**DESIGN AND CONSTRUCTION:** Housings shall be of scroll centrifugal type, rigidly braced and reinforced to help prevent vibration or pulsation. Wheel diameters and outlet areas shall be in accordance with the Standard Sizes adopted by AMCA for non-overloading fans. Inlets shall be fully streamlined.

**WHEELS:** All wheels shall have flat backwardly inclined blade design offering a true non-overloading power characteristic.

Blades shall be welded to the rim, center and/or backplate. Class IV wheels shall have intermediate rims. All wheels shall be statically and dynamically balanced before shipment.

**INLET VANE CONTROL:** Shall be provided in either nested, internally mounted, or separately encased, externally mounted type designs, to permit volume reduction with a corresponding horsepower savings, and where appropriate, designed for inlet duct attachment. The free area of the conical vanes shall be not less than 120% of the fan inlet area to eliminate inlet losses. The blade area shall be equalized so that the vanes shall remain partially open should control devices fail. Nested and external type design shall be furnished with either a lever and locking hand quadrant for manual operation, or a stub shaft, with lever for automatic control. DWDI fans shall be furnished with interconnecting linkage for single point operation.

**ACCESSORIES:** Fans shall be furnished with accessories as shown in the schedules.

## CONSULT SUBMITTAL SHEETS AND APPLICATION DATA FOR DIMENSIONS AND WEIGHTS.

### SET SCREW TIGHTENING SCHEDULE

1. Before initial operation of the fan, tighten set screws according to the procedure outlined below.
2. After 500 operating hours or three months, whichever comes first, tighten set screws to the full recommended torque.
3. At least once a year, tighten set screws to the full recommended torque.

#### PROCEDURE FOR TIGHTENING SET SCREWS IN BEARINGS AND HUBS

##### One Set Screw Application

Using a torque wrench, tighten the set screw to the torque recommended in Table 1.

##### Two Set Screw Application

1. Using a torque wrench, tighten one set screw to half of the torque recommended in Table 1.
2. Tighten the second set screw to the full recommended torque.
3. Tighten the first set screw to the full recommended torque.

**Table 1. Recommended Tightening Torque for Set Screws**

Set Screw Diameter	Torque (in-lbs)
#10	35
1/4	80
5/16	126
3/8	240
7/16	384
1/2	744
9/16	1080
5/8	1500
3/4	2580
7/8	3600
1	5400

### VARIABLE FREQUENCY DRIVES AND MOTORS

There are occasions when a Variable Frequency Drive (VFD) will cause poor motor performance and possible damage. To avoid these problems, the Company recommends the following:

1. Select compatible motor and VFD converter; if possible, the motor and the converter should be from the same manufacturer or at least the converter selected should be recommended by the motor manufacturer.
2. A motor shaft grounding system should be used to prevent motor bearing damage from eddy currents.

**NOTE:** The Company will not honor motor warranty claims if the customer fails to follow these recommendations.

	CONVERSION TABLE			
	I-P Equivalents of Metric Units		Metric Equivalents of I-P Units	
<b>Area</b>	1 m <sup>2</sup> (square meter)	= 10.764 ft <sup>2</sup>	1 ft <sup>2</sup> (square foot)	= .09290 m <sup>2</sup>
<b>Density</b>	1 kg/m <sup>3</sup>	= .062428 lbm/ft <sup>3</sup>	1 lbm/ft <sup>3</sup>	= 16.018 kg/m <sup>3</sup>
	1 g/cm <sup>3</sup>	= 62.428 lbm/ft <sup>3</sup>	1 lbm/ft <sup>3</sup>	= .016018 g/cm <sup>3</sup>
<b>Energy</b>	1 J (Joule) or N-m (Newton-meter)	= .73756 ft-lb	1 ft-lb (foot pound)	= 1.3558 N-m
	1 kcal (kilo calorie)	= 3.9683 Btu	1 Btu (British thermal unit)	= 252 cal
<b>Flow Rate (Volume)</b>	1 m <sup>3</sup> /s (cubic meter per second) CMS	= 2118.9 CFM	1 CFM (Cu. ft/min)	= .00047195 m <sup>3</sup> /s
	1 m <sup>3</sup> /min (cubic meter per minute) CMM	= 35.315 CFM	1 CFM	= .02832 m <sup>3</sup> /min
	1 m <sup>3</sup> /hr (cubic meter per hour) CMH	= .58858 CFM	1 CFM	= 1.6990 m <sup>3</sup> /hr
	1 l/s (liter per second)	= 2.1189 CFM	1 CFM	= .47195 l/s
<b>Force</b>	1 N (Newton)	= .22481 lb	1 lb (pound)	= 4.4482 N
	1 kp (kilopond)	= 2.2046 lb	1 lb	= .45359 kp
<b>Gas Constant</b>	1 J/kg-K (Joule per kilogram Kelvin)	= .18586 ft-lb/lbm- °R	1 ft-lb/lbm- °R*	= 5.3803 J/kg-K
	1 m <sup>2</sup> /s <sup>2</sup> -K (sq. mtr per sec. sq. Kelvin)	= 5.9800 ft <sup>2</sup> /s <sup>2</sup> - °R	1 ft <sup>2</sup> /s <sup>2</sup> - °R**	= .16723 m <sup>2</sup> /s <sup>2</sup> -K
	1 cal/g-°C (calorie per gram °C)	= 4186.8 J/kg-K	1 Btu/lbm- °R	= 1.0000 cal/g- °C
		*(foot-pound per poundmass degree Rankine)		
		**(square-foot per second-square degree Rankine)		
<b>Length</b>	1 mm (millimeter)	= .03937 inch	1" (inch)	= 25.4 mm
	1 cm (centimeter)	= .39370 inch	1"	= 2.54 cm
	1 m (meter)	= 3.2808 ft	1 ft (foot)	= .30480 m
	1 km (kilometer)	= .62137 mi	1 mi (mile)	= 1.6093 km
<b>Mass</b>	1 kg (kilogram)	= 2.2046 lbm	1 lbm (pound mass)	= .45359 kg
<b>Power</b>	1 W (Watt)	= .00134 HP	1 hp (horsepower)	= .7457 kW
	1 kW (kilo-Watt)	= 1.3410 hp	1 hp	= 745.70 W
	1 mhp (metric horsepower)	= .98632 hp	1 hp	= 1.0139 mhp
<b>Pressure or Stress</b>	1 N/m <sup>2</sup> (Newton per m <sup>2</sup> ) or Pa (Pascal)	= .0040264" wg	1" wg (inches water gauge)	= 248.66 Pa or N/m <sup>2</sup>
	1 mm Hg or torr (mm Mercury)	= .53616" wg	1" wg	= 1.8651 mm Hg or torr
	1 kPa (kilo Pascal)	= .1450 psi	1 psi (pounds per sq. inch)	= 6894.8 Pa or N/m <sup>2</sup>
	1 atm (atmosphere)	= 29.921" Hg	1" Hg (inch Mercury)	= 3386.4 Pa or N/m <sup>2</sup>
	(mm Hg at 0°C or 68°F)		(inches wg at 68°F or 20°C)	
<b>Temperature</b>	1 oz/in <sup>2</sup>	= 1.732" wg	1" wg	= 0.5774 oz/in <sup>2</sup>
	For temperature intervals and rise, For temperature intervals and rise,			
<b>Torque</b>	1°C (degree Celcius)	= 9/5 °F	1°F (degree Fahrenheit)	= 5/9 °C
	For temperature in °F (Fahrenheit)	= t <sub>C</sub> x 9/5 + 32	For temperature in °C	= (t <sub>F</sub> -32) x 5/9
	1 N-m (Newton meter)	= 8.8507 in.-lb.	1 in.-lb. (inch pound)	= .11298 N-m
<b>Velocity &amp; Speed</b>	1 N-m (Newton-meter)	= .73756 ft.-lb.	1 ft.-lb. (foot pound)	= 1.3558 N-m
	1 m/s	= 196.5 fpm	1 fpm (feet per minute)	= .00508 m/s
	1 km/hr (kilometer per hour)	= .62137 mph	1 mph (mile per hour)	= 1.6093 km/hr
<b>Viscosity</b>	1 rps (revolution per second)	= .016667 rpm	1 rpm (revolution per minute)	= 60 rps
	1 cP (Centipoise)	= .00067197 lbm/ft-s	1 lbm/ft-s (pound/foot second)	= 1488.2 cP



### FANTastic!®

FANTastic!® was the industry's first Windows® based fan selection program. This customer friendly software allows the user to select the correct Acme fan for the application and to print performance curves, submittal drawings, and product specifications quickly and easily. Submittal drawings are seamlessly integrated into AutoCAD.

### FAST Ship Program

Acme stocks a variety of fans and air moving equipment available at strategic locations around the country for immediate shipment. Our FAST program, gives you a choice of Next Day or 10 Day shipment on selected products.

### Year After Year Confidence

Acme stands behind every piece of equipment we make...period! To prove it, we offer a 2 Year Comprehensive Warranty on every product and a 5 Year Bearing and Shaft Warranty on our exclusive duplex split pillow block bearings and shaft.

Year after Year...Acme's Warranty Provides Confidence.

### Call Us Today

ACME Engineering and Manufacturing Corporation  
Box 978, Muskogee, Oklahoma 74402

918.682.7791

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**Acme's Warranty Provides Confidence**

## YEAR AFTER YEAR

**2**  
YEAR  
COMPREHENSIVE WARRANTY

**5**  
YEAR  
BEARING & SHAFT WARRANTY

Acme stands behind every piece of equipment it makes...period! To prove it, we offer a comprehensive 2 year warranty on every product and a 5 year warranty on our exclusive duplex split pillow block bearings and shaft.

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- Tubaxial Fans
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- Propeller Wall Fans
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**ACCEPTANCE** All orders and sales are subject to written approval and acceptance by an executive officer of Acme Engineering & Manufacturing Corporation at Muskogee, Oklahoma, (the "Company") and are not binding on the Company until so approved.

**DELIVERY** All shipping and delivery dates are estimated only. No delays in delivery will subject the Company to any costs, damages or fees for late delivery. Delivery of the products herein specified shall be made F.O.B. point of shipment, unless otherwise stated. The Company shall not be liable for delay due to causes beyond its reasonable control, such as Acts of God, acts of the purchaser, acts of civil or military authorities, priorities, fires, strikes, floods, epidemics, war, riots, delays in transportation, car shortages, and inability, due to reasons beyond its reasonable control, to obtain necessary labor, material, or manufacturing facilities. In the event of such a delay, the date of delivery shall be extended for a period equal to the time lost by reason of the delay.

**TERMS OF PAYMENT** If, in the judgment of the Company, the financial condition of the purchaser at any time does not justify continuation of manufacture or shipment on the terms of payment specified, the Company may require full or partial payment in advance.

Pro rata payments shall become due as shipments are made. Each shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall not vitiate the contract as to other shipments or deliveries.

**SALES AND SIMILAR TAXES** The Company's prices do not include sales, use, excise, or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, or other similar tax applicable to the sale of the product

## TERMS AND CONDITIONS OF SALE

herein shall be paid by the Purchaser, or in lieu thereof the Purchaser shall provide the Company with a tax exemption certificate acceptable to the taxing authorities.

**CANCELLATION** Any contract resulting from the Purchaser's order may be canceled by the Purchaser only by negotiations and upon payments of reasonable cancellation charges which will take into account expenses already incurred and commitments made by the Company.

**DESIGN CHANGES** The Company reserves the right to make changes in design, improvements and additions in and to its products any time without imposing any liability or obligations to itself to apply or install the same in any product manufactured by it.

**TITLE** The title and right of possession of the products sold herein shall remain with the Company and such products shall remain personal property until all payments herein (including deferred payments whether evidenced by notes or otherwise) shall have been made in full in cash and the Purchaser agrees to do all acts necessary to perfect and maintain such right and title in the Company.

**PRICE ADJUSTMENTS** Prices are subject to change upon notice by the Company. Prices on existing orders are subject to surcharges in the event of cost increases of metals and transportation. All complete component accessory material manufactured by others and furnished with the Company's products such as motors, drives, vibration equipment, controls or other completely assembled component structures, are subject to adjustment to the price at time of shipment regardless of the date of original order entry.

**SAFETY ACCESSORIES** The Company manufactures products designed to serve multiple applications and offers a wide range of safety equipment, including guards

and other devices, as may be required to meet customer specifications. Without exception, the Company recommends that all orders include applicable safety devices. Products ordered without applicable safety devices is clearly the responsibility of the Purchaser. Further, the Purchaser warrants that it has determined and acquired any and all safety devices required for products sold by the Company. Weather covers and guards for motor and V-belt drives, couplings, shafts and bearings, along with inlet and outlet screens, are optional accessories noted in the price list.

**GOVERNING LAW** The rights, obligations and remedies of Purchaser and the Company, the interpretation of these terms and conditions and the sale of products by the Company shall be governed by Oklahoma law, without regard to any principles of conflict of laws.

**ARBITRATION** Any dispute arising under or in connection with these terms and conditions or the sale of products shall be settled by binding arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules, and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. The dispute shall be resolved by one neutral arbitrator who shall have no affiliation with either Purchaser or the Company and shall be selected by the American Arbitration Association office in Dallas, Texas. The arbitration proceedings shall be held in Muskogee, Oklahoma.

**APPLICABLE DOCUMENTS** The agreement between the Company and the Purchaser relating to the products includes these terms and conditions of sale, any applicable installation and maintenance instructions provided by the Company and any terms appearing on the Company's quotation, sales order acknowledgment and invoice.

**WARNING** Acme products are designed and manufactured to provide reliable performance but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures and this possibility should be recognized by the Purchaser and all End Users. If these products are used in a life support ventilation system where failure could result in loss or injury, the Purchaser and all End Users should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

**WARNING** DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments. Comply with all local and national safety codes including the National Electrical Code (NEC) and National Fire Protection Act (NFPA).

**CAUTION** Guards must be installed when fan is within reach of personnel or within eight (8) feet (2.5 m) of working level or when deemed advisable for safety.

**DISCLAIMER** The Company has made a diligent effort to illustrate and describe the products accurately in all Company literature; however such illustrations and descriptions are for the sole purpose of identification and do not express or imply any warranty.

## LIMITED WARRANTY

**WARRANTY AND DISCLAIMER:** the Company extends this limited warranty to the original purchaser and warrants that products supplied by the Company, shall be free from original defects in workmanship and materials for two years from date of shipment (except for the warranty periods noted for products listed below), provided same have been properly handled, stored, installed, serviced, maintained and operated. This warranty shall not apply to products which have been altered or repaired without the Company's express authorization, or altered or repaired in any way so as, in the Company's judgment, to affect its performance or reliability, nor which have been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other substances. The Purchaser assumes all risks and liability for results of use of all products.

Evaporative cooling pads are warranted to be free of defects in materials and workmanship for a period of two years from date of shipment provided same have been properly handled, stored, installed, serviced, maintained and operated; and further, not subjected to excessive heat, corrosive agents or chemicals, or mechanical abuse that may cause tearing, crushing or undue deterioration, nor used on a system or in a manner other than that for which it was designed as explained in the product literature.

The following products are warranted to be free of defects in materials and workmanship for the periods shown from date of shipment: Acme's exclusive duplex split pillow block bearings and shaft five years, belts one year, Polyethylene tubing 90 days, and DDP fan lifetime warranty on its stainless steel propeller, cone, and housing.

**LIMITATION OF REMEDY AND DAMAGES:** All claims under this warranty must be made in writing and delivered to P. O. Box 978, Muskogee, Oklahoma, 74402, within 15 days after discovery of the defect and prior to the expiration of two years from the date of shipment by the Company of the product claimed defective, and Pur-

chaser shall be barred from any remedy if Purchaser fails to make such claim within such period.

Within 30 days after receipt of a timely claim, the Company shall have the option either to inspect the product while in Purchaser's possession or to request Purchaser to return the product to the Company at Purchaser's expense for inspection by the Company. The Company shall replace, or at its option repair, free of charge, any product it determines to be defective, and it shall ship the repaired or replacement product to Purchaser F.O.B. point of shipment; provided, however, if circumstances are such as in the Company's judgment to prohibit repair or replacement to remedy the warranted defects, the Purchaser's sole and exclusive remedy shall be a refund to the Purchaser of any part of the invoice price, paid to the Company, for the defective product or part.

The Company is not responsible for the cost of removal of the defective product or part, damages due to removal, or any expenses incurred in shipping the product or part to or from the Company's plant, or the installation of the repaired or replaced product or part.

The warranties set forth above do not apply to any components, accessories, parts or attachments manufactured by other manufacturers; such being subject to the manufacturer's warranty, if any. To the extent not prohibited by the manufacturer's warranty, the Company shall pass through to Purchaser such manufacturer's warranty.

THE COMPANY'S WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED AND WAIVED. THIS WARRANTY CONSTITUTES THE COMPANY'S SOLE AND EXCLUSIVE WARRANTY FOR DEFECTIVE GOODS AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DEFECTIVE PRODUCTS.

No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Company or to assume for the Company any other liability in connection with any of its products except in writing and signed by an officer of the Company.

**REPLACEMENT PARTS** If replacement parts are ordered, purchaser warrants that the original components in which these replacement parts will be placed are in

satisfactory working condition, and when said replacement parts are installed, the resultant installation will operate in a safe manner, at speeds and temperatures for which the original product was purchased.

**TECHNICAL ADVICE AND RECOMMENDATIONS, DISCLAIMER:** Notwithstanding any past practice or dealings or any custom of the trade, sales shall not include the furnishing of technical advice or assistance or system design. Any such assistance shall be at the Company's sole option and may be subject to additional charge.

The Company assumes no obligation or liability on account of any recommendations, opinions or advice as to the choice, installation or use of products. Any such recommendations, opinions or advice are given and shall be accepted at Purchaser's and End User's risk and shall not constitute any warranty or guarantee of such products or their performance.

**LIMITATION OF LIABILITY** The cumulative liability of the Company to the Purchaser and any other persons for all claims in any way relating to or arising out of the products, including, but not limited to, any cause of action sounding in contract, tort, or strict liability, shall not exceed the total amount of the purchase price paid for those products which are the subject of any such claim. This limitation of liability is intended to apply without regard to whether other provisions of this agreement have been breached or have proven ineffective even if the Company has been advised of the possibility of such claims or demands. In no event shall the Company be liable to the Purchaser or any other person for any loss of profits or any incidental, special, exemplary, or consequential damages for any claims or demands brought by the Purchaser or such other persons.

**INDEMNITY** The Company's maximum liability to Purchaser and to any end user is as set forth above. The Company makes no warranty to anyone for any products not manufactured by the Company and shall have no liability for any use or installation of any products (whether manufactured by the Company or other manufacturers) not specifically authorized by this sale. Purchaser acknowledges various warnings by the Company regarding the products and its installation and use. If the Company incurs any claims, lawsuits, settlements, or expenses (including attorney fees) for any loss, injury, death or property damage including, but not limited to, claims arising out of the Purchaser's or any end user's installation or use of the products, the Purchaser shall indemnify and hold the Company harmless.



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