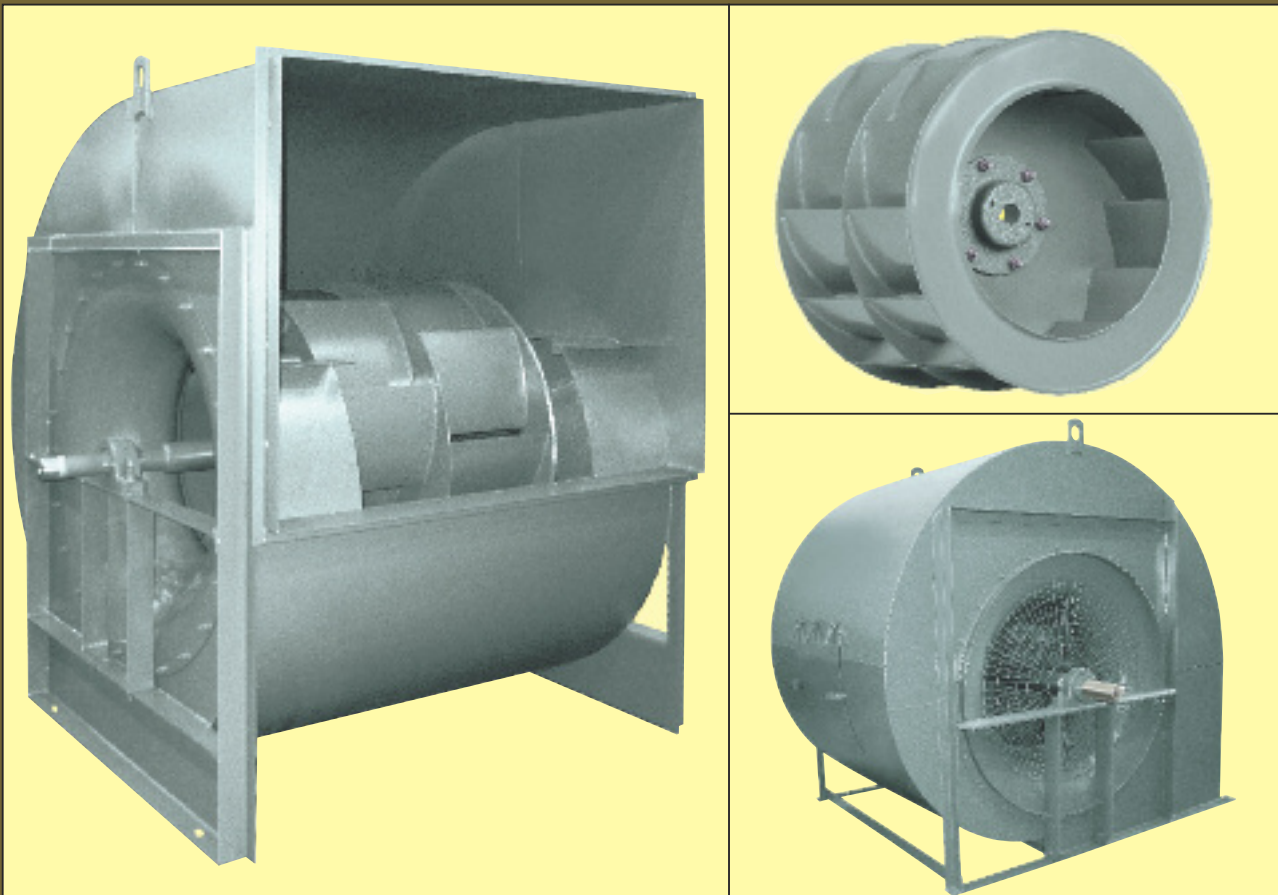


# DOUBLE-WIDTH ACOUSTAFOIL® FANS



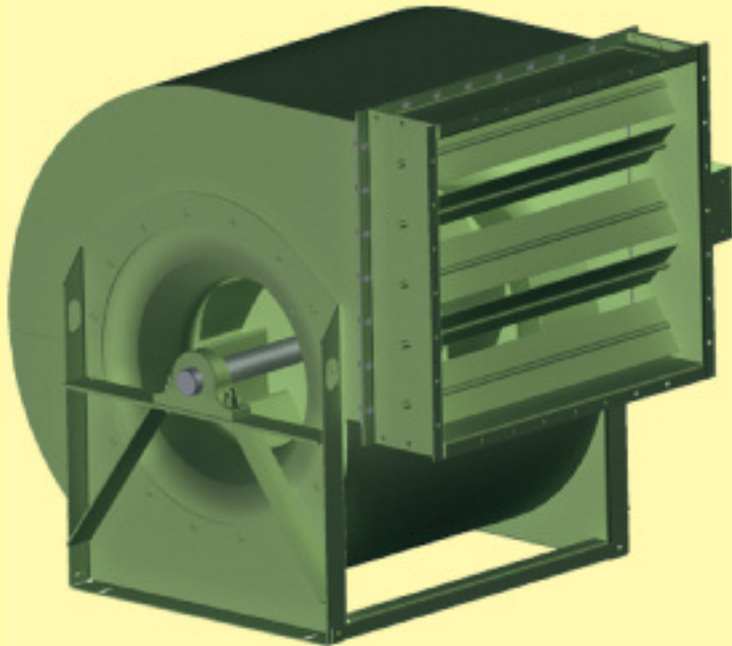
- Class 1, 2, 3 construction
- Capacities to 350,000 CFM
- Static pressures to 14"WG
- Efficiencies beyond 85%



THE NEW YORK BLOWER COMPANY  
7660 Quincy Street  
Willowbrook, IL 60527-5530

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Phone: (800) 208-7918 Email: [nyb@nyb.com](mailto:nyb@nyb.com)

# DOUBLE-WIDTH ACOUSTAFOIL® FANS



Size 24 Class 2 Fan with optional flanged outlet and opposed-blade outlet damper [representative of Sizes 18-27 Class 1 and 2 construction].



The New York Blower Company certifies that the Double-Width AcoustaFoil 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 comply with the requirements of the AMCA Certified Ratings Program.

The New York Blower Company's Double-Width AcoustaFoil Fans combine the efficiency of its airfoil wheels with construction features to suit industrial supply and exhaust systems as well as heating, ventilating, and air-conditioning applications. A wide range of accessories is available to tailor Double-Width AcoustaFoil Fans to each unique application. The state-of-the-art laboratory and design and manufacturing facilities of The New York Blower Company ensure that Double-Width AcoustaFoil Fans provide the utmost in equipment value.

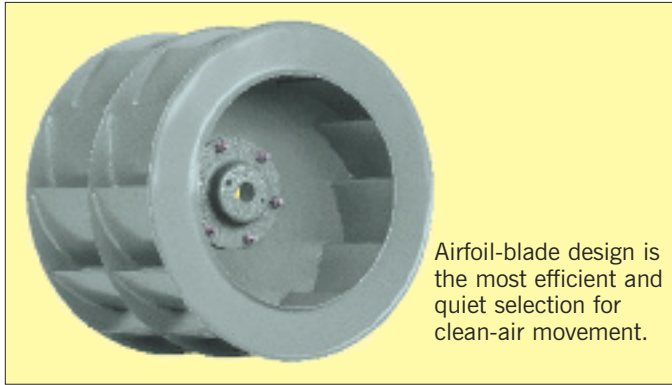
## DESIGN FEATURES

- Complete AMCA Class 1, 2, 3 performance.
- Capacities to 350,000 CFM.
- Pressures to 14"WG.
- Efficiencies beyond 85%.
- Temperatures to 120°F.
- Twenty sizes: 10" through 73" wheel diameters.
- Available in clockwise and counterclockwise rotations in any of seven standard discharge positions.
- Unique inlet cones with airflow diverters improve fan efficiency.

## CONSTRUCTION FEATURES

- Heavy-gauge welded components provide structural strength and durability.
- Continuously welded housings provide the strongest possible construction.
- Bearings are selected to provide long service life through the entire operating range of the fan.
- Standard finish is a medium-green enamel.
- Shafting is straightened to close tolerance to minimize "run out" and ensure smooth operation.
- Lifting eyes are standard on all fans.
- All Double-Width AcoustaFoil wheels are dynamically balanced and all fans are checked at the specified running speed after final assembly.

# WITH ACOUSTAFoil® WHEELS



Airfoil-blade design is the most efficient and quiet selection for clean-air movement.

**Stable performance**—completely stable pressure curve from wide-open to closed-off...ideal for variable air volume systems.

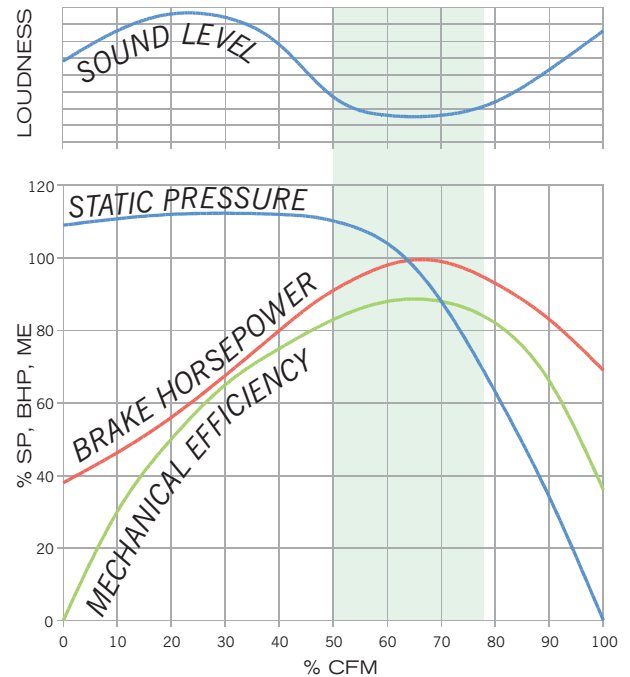
**Non-overloading horsepower curve**—horsepower reaches a peak and then decreases as flow increases ...allows calculation of the maximum brake horsepower at a given fan speed so a motor can be selected that will not overload if system pressure changes.

**Efficiency**—the mechanical efficiency curve offers a broad selection range with little horsepower variation.

**Sound**—the superior efficiency of the Acoustafoil wheel provides a low sound level over a wide performance range.

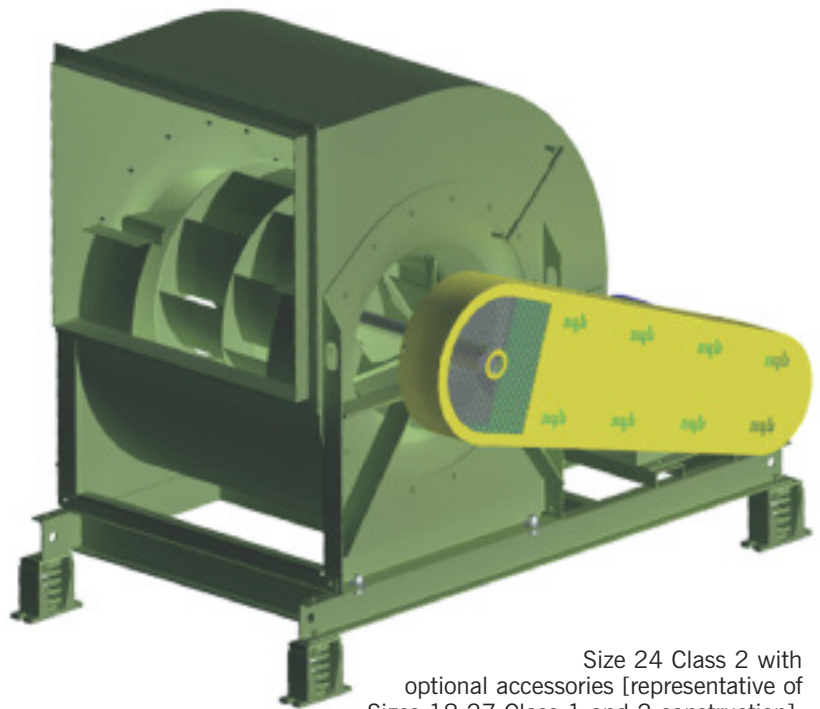
## TYPICAL ACOUSTAFoil PERFORMANCE

Shaded region highlights typical performance at peak mechanical efficiency and lowest sound level.



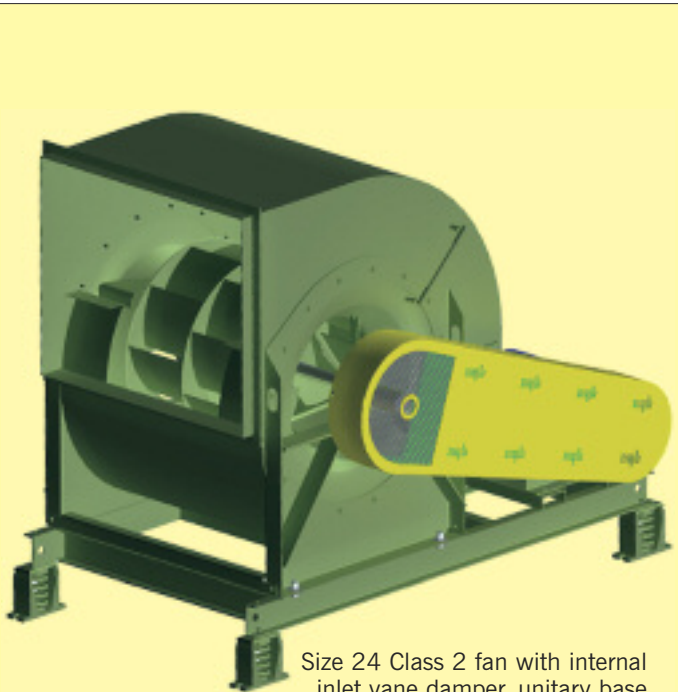
## SAFETY EQUIPMENT

Safe operation of air-moving equipment is dependent on proper installation and maintenance including selection and use of appropriate safety accessories for the specific installation. Such safety accessories are available from **nyb**, but selection of the appropriate devices is the responsibility of the system designer who must be aware of adjacent components, equipment location, and accessibility in the particular installation. Neither **nyb** nor its sales representatives are in a position to make such a determination. The system designer must consider providing guards for all exposed moving parts as well as protection from access to high velocity airstreams. Improper application, installation, maintenance, or safety guard selection can create danger to life and limb of personnel. Users and/or installers should read "Recommended Safety Practices for Air Moving Devices" as published by the Air Movement and Control Association International, Arlington Heights, Illinois.

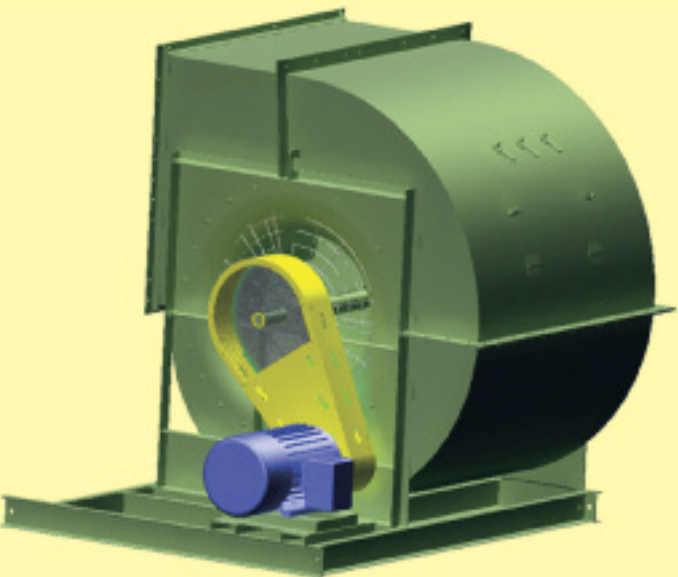


Size 24 Class 2 with optional accessories [representative of Sizes 18-27 Class 1 and 2 construction].

# ACCESSORIES AND MODIFICATIONS



Size 24 Class 2 fan with internal inlet vane damper, unitary base with spring isolation, belt guard, motor and v-belt drive.



Size 44 Class 2 fan with split housing construction, inlet guard, quick-opening cleanout door, unitary base, belt guard, motor, and v-belt drive.

## 1. UNITARY BASE

Structural-steel base provides common support for fan, motor, and drive components...also available with **spring isolators**, or **rubber-in-shear isolators** [not shown]. Flexible outlet connection required when isolation is used.

## 2. DRAIN

1½" threaded tank flange located at lowest point in housing scroll.



## 3. INTERNAL INLET-VANE DAMPERS

Allows smooth control in systems that require efficient dampening of airflow. Dampers are an integral part of the fan inlet cones, providing considerable space-saving. See separate Engineering Supplement for performance.

## 4. FLANGED OUTLET








Angles are welded flush with fan outlet and provided with holes.

## 5. CLEANOUT DOOR

Two types of gasketed doors are available...**quick-opening:** latch-type door swings open on hinges after turning cam levers...**bolted:** closely spaced studs keep door securely sealed.

## 6. SPLIT HOUSING

Sizes 40 and larger Class 1 and 2, Sizes 36 and larger Class 3 available with split housings...bars are welded to housing to permit bolting sections together. Inlet and outlet connections do not have to be removed except outlet connections must be removed on Up Blast fans.

|                                   |   |   |   |
|-----------------------------------|---|---|---|
| <b>TYPE A</b><br>Horizontal Split |  |  |  |
|                                   | Bottom Horizontal   | Down Blast  | Up Blast  |
| <b>TYPE B</b><br>Pie-shaped Split |  |  |  |
|                                   | Top Horizontal  | Top Angular Down  | Bottom Angular Up   |
|                                   |   |   |  |
|                                   |   |   | Top Angular Up  |

## 7. SAFETY EQUIPMENT

Belt guards, inlet guards, and outlet guards are available.

### OUTLET DAMPERS

Parallel-blade or opposed-blade outlet dampers are available for volume-control applications. See separate Catalog Sheet and Engineering Letter.



Parallel blade

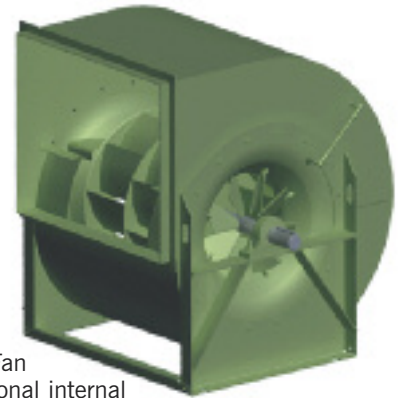


Opposed blade

# DOUBLE-WIDTH ACOUSTAFOIL FANS AND VARIABLE AIRFLOW APPLICATIONS

The rising cost of energy puts emphasis on air-handling systems that can be operated efficiently at less than maximum design airflow. The high efficiency and inherent stability of **nyb's** AcoustaFoil wheel is particularly well-suited to variable airflow systems such as industrial processes and variable volume air-conditioning systems. The AcoustaFoil wheel design ensures not only maximum operating efficiency at design CFM but also at reduced airflow regardless of the control method applied. This higher efficiency allows quieter operation throughout the modulation range.

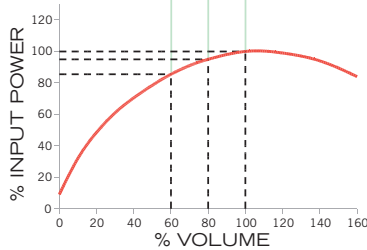
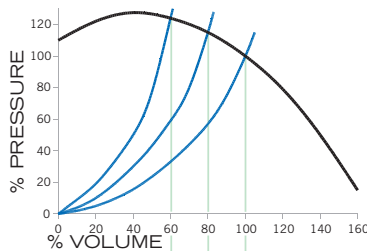
Double-Width AcoustaFoil Fans are available with both parallel-blade and opposed-blade outlet dampers or internal inlet-vane dampers, and are suited to speed modulation using variable frequency motor speed controllers.



Size 24  
Class 2 Fan  
with optional internal  
inlet-vane dampers [representative of  
Sizes 18-27 Class 1 and 2 construction].

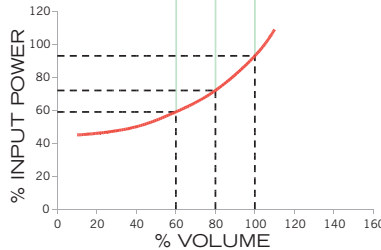
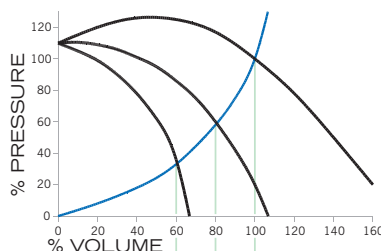
## OUTLET DAMPER CONTROL

Outlet dampers act on air after it has passed through the fan by increasing resistance in the system. As the outlet damper is closed, the fan's point of operation moves left from the initial design point on the static-pressure curve. Depending on where the design point is, dampered horsepower may be less, the same, or more than the full flow of horsepower. Outlet dampers are typically the least expensive first cost option but also offer the least potential for energy savings.



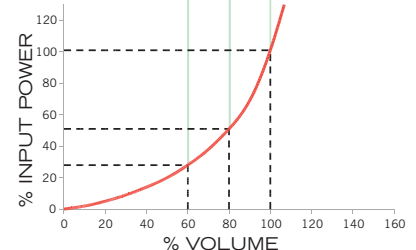
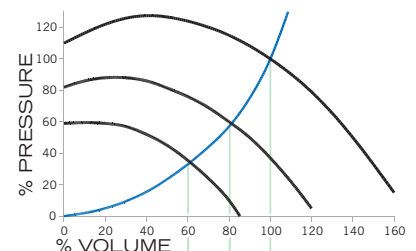
## INLET-VANE DAMPER CONTROL

Inlet-vane dampers affect the fan's output by spinning the air in the direction of wheel rotation as it enters the fan. With this pre-spin, the wheel cannot develop its full output, yielding a reduced CFM at reduced horsepower. Each damper setting creates new pressure and horsepower curves. With inlet-vane dampers, reduced airflow always results in reduced horsepower. Though more expensive initially than outlet dampers, inlet-vane dampers offer greater potential for energy savings.



## VARIABLE FREQUENCY MOTOR SPEED CONTROL

Variable frequency motor speed controllers provide energy savings by directly controlling fan speed. From the fan laws, CFM varies directly with the change in fan speed and horsepower varies by the change in fan speed cubed. For example, a 20% reduction in fan speed yields a 20% reduction in airflow and a 49% reduction in BHP. Though highest in first cost, variable frequency speed control provides the greatest potential for energy savings.



The decision to vary the fan's CFM by outlet damper, inlet-vane damper, or speed control should include consideration of the fan's duty cycle. Extended operation at less than full performance favors speed control because of its superior energy-savings potential despite its higher first cost. Infrequent operation at less than full performance favors outlet damper control because of its lower first costs relative to the limited energy-savings

potential. Inlet-vane damper control demands consideration in almost all instances as it offers good potential for energy savings at reasonable initial cost.

The New York Blower Company's nationwide network of trained sales engineers is familiar with each of these control alternatives and can offer further assistance in selecting the best control for a particular application.

# DOUBLE-WIDTH ACOUSTAFOIL FAN SELECTION

## HOW TO USE CAPACITY TABLES

For a given fan size, CFM, and static pressure, capacity tables are used to obtain outlet velocity, RPM, and BHP. If capacities are at conditions other than 70°F. and sea level [standard density, .075 lbs./cu. ft.], correction factors are applied to static pressure and BHP.

1. If conditions other than standard are involved, correct static pressure for actual altitude and temperature using Chart I.
2. Select size, RPM, and BHP from capacity tables, pages 7-13.
3. Determine actual performance at operating conditions by correcting static pressure and brake horsepower.

**EXAMPLE:** A fan is required for 16,000 CFM at 5"WG at 5000 ft. elevation at 70°F.

1. Chart I gives a 1.20 factor for 5000 ft. at 70°F. Corrected pressure is 5"WG x 1.20 = 6"WG at 70°F. at sea level.
2. A Size 241 is selected for 16,000 CFM at 6"WG at 1886 RPM and 20.8 brake horsepower.
3. Actual performance: 16,000 CFM at 5"WG [6" ÷ 1.20] at 1886 RPM at 17.3 BHP [20.8 ÷ 1.20] at 5000 ft. at 70°F.

On Sizes 181 through 731; Class 1 is to left of outline area, Class 2 is outline area, Class 3 is to right of outline area.

**CHART I—CORRECTION FACTORS FOR TEMPERATURE AND ALTITUDE**

| Temperature °F. | Altitude-feet above sea level |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | 0                             | 500  | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 |
| -50             | .77                           | .785 | .801 | .816 | .832 | .862 | .893 | .924 | .963 | 1.00 | 1.04 | 1.08 | 1.12  |
| -25             | .82                           | .836 | .853 | .869 | .886 | .918 | .951 | .984 | 1.03 | 1.07 | 1.11 | 1.15 | 1.19  |
| 0               | .87                           | .887 | .905 | .922 | .940 | .974 | 1.01 | 1.04 | 1.09 | 1.13 | 1.18 | 1.22 | 1.26  |
| 20              | .91                           | .928 | .946 | .965 | .983 | 1.02 | 1.06 | 1.09 | 1.14 | 1.18 | 1.23 | 1.27 | 1.32  |
| 40              | .94                           | .959 | .978 | .996 | 1.02 | 1.05 | 1.09 | 1.13 | 1.18 | 1.22 | 1.27 | 1.32 | 1.36  |
| 60              | .98                           | .999 | 1.02 | 1.04 | 1.06 | 1.10 | 1.14 | 1.18 | 1.23 | 1.27 | 1.32 | 1.37 | 1.42  |
| 70              | 1.00                          | 1.02 | 1.04 | 1.06 | 1.08 | 1.12 | 1.16 | 1.20 | 1.25 | 1.30 | 1.35 | 1.40 | 1.45  |
| 80              | 1.02                          | 1.04 | 1.06 | 1.08 | 1.10 | 1.14 | 1.18 | 1.22 | 1.28 | 1.33 | 1.38 | 1.43 | 1.48  |
| 100             | 1.06                          | 1.08 | 1.10 | 1.12 | 1.15 | 1.19 | 1.23 | 1.27 | 1.33 | 1.38 | 1.43 | 1.48 | 1.54  |
| 120             | 1.09                          | 1.10 | 1.13 | 1.16 | 1.18 | 1.22 | 1.26 | 1.31 | 1.36 | 1.42 | 1.47 | 1.53 | 1.58  |



## ELECTRONIC CATALOG

A complete New York Blower Catalog on one CD. No more manual calculations and bulky product catalogs. A critical tool for all system-designers and engineers who select and specify air-moving equipment.

### SELECTION BENEFITS

- Fast, accurate fan selection.
- Automatic altitude, temperature, and density corrections.
- Sound levels by octave band.
- Fan-performance curves.
- Multiple model and size choices.
- Metric or English units.

### CATALOG CONTENTS

- Fan-selection program.
- Complete product catalog in PDF including drawings, dimensions, and design specifications.
- Sample guide specifications.
- New York Blower Engineering Letters.
- Installation and Maintenance Manuals.
- Listing of New York Blower representatives.

To obtain your copy of New York Blower's Electronic Catalog contact your local New York Blower representative or go to [www.nyb.com](http://www.nyb.com) and click on *Selection Software*.

| <b>SIZE 101</b> |      | Wheel diameter: 10"        |      |       |      |      | Fan outlet area: 1.02 sq. ft.                               |       |      |      |      | Class 2 = 4900 RPM |      |      |      |      |      |      |      |      |      |
|-----------------|------|----------------------------|------|-------|------|------|---|-------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|
|                 |      | Wheel circumference: 2.62' |      |       |      |      | Maximum BHP = $.034 \left(\frac{\text{RPM}}{1000}\right)^3$ |       |      |      |      |                    |      |      |      |      |      |      |      |      |      |
| CFM             | OV   | 1"SP                       |      | 1½"SP |      | 2"SP |   | 2½"SP |      | 3"SP |      | 3½"SP              |      | 4"SP |      | 5"SP |      | 6"SP |      | 7"SP |      |
|                 |      | RPM                        | BHP  | RPM   | BHP  | RPM  | BHP   | RPM   | BHP  | RPM  | BHP  | RPM                | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
| 1000            | 980  | 1991                       | 0.52 | 2275  | 0.62 | 2564 | 0.74  | 2836  | 0.87 | 3102 | 1.02 | 3339               | 1.17 | 3570 | 1.33 | 3981 | 1.66 | 4358 | 2.01 | 4678 | 2.35 |
| 1400            | 1373 | 2365                       | 0.67 | 2602  | 0.79 | 2804 | 0.92  | 3005  | 1.05 | 3212 | 1.20 | 3415               | 1.36 | 3624 | 1.53 | 4004 | 1.89 | 4382 | 2.31 | 4733 | 2.79 |
| 1600            | 1569 | 2552                       | 0.76 | 2791  | 0.91 | 2986 | 1.05  | 3165  | 1.19 | 3339 | 1.33 | 3517               | 1.50 | 3698 | 1.67 | 4059 | 2.05 | 4398 | 2.45 | 4741 | 2.96 |
| 1800            | 1765 | 2748                       | 0.86 | 2976  | 1.03 | 3180 | 1.20  | 3354  | 1.36 | 3515 | 1.52 | 3664               | 1.67 | 3819 | 1.84 | 4143 | 2.23 | 4454 | 2.65 | 4767 | 3.16 |
| 2000            | 1961 | 2953                       | 0.98 | 3168  | 1.17 | 3365 | 1.36  | 3544  | 1.55 | 3700 | 1.72 | 3844               | 1.89 | 3979 | 2.06 | 4263 | 2.44 | 4554 | 2.92 | 4846 | 3.44 |
| 2200            | 2157 | 3170                       | 1.12 | 3363  | 1.33 | 3550 | 1.54  | 3726  | 1.75 | 3888 | 1.95 | 4033               | 2.14 | 4164 | 2.33 | 4424 | 2.75 | 4669 | 3.20 |      |      |
| 2400            | 2353 | 3393                       | 1.29 | 3567  | 1.50 | 3747 | 1.74  | 3913  | 1.96 | 4072 | 2.19 | 4223               | 2.41 | 4361 | 2.65 | 4600 | 3.10 | 4837 | 3.59 |      |      |
| 2800            | 2745 | 3852                       | 1.72 | 3999  | 1.94 | 4150 | 2.19  | 4304  | 2.46 | 4448 | 2.75 | 4594               | 3.06 | 4729 | 3.36 |      |      |      |      |      |      |
| 3000            | 2941 | 4086                       | 1.98 | 4224  | 2.21 | 4361 | 2.46  | 4506  | 2.78 | 4646 | 3.10 | 4786               | 3.43 |      |      |      |      |      |      |      |      |
| 3200            | 3137 | 4324                       | 2.27 | 4451  | 2.51 | 4582 | 2.82  | 4715  | 3.14 | 4841 | 3.46 |                    |      |      |      |      |      |      |      |      |      |
| 3400            | 3333 | 4563                       | 2.61 | 4683  | 2.90 | 4802 | 3.20  |       |      |      |      |                    |      |      |      |      |      |      |      |      |      |

| <b>SIZE 121</b> |      | Wheel diameter: 12¼"       |      |      |      |      | Fan outlet area: 1.55 sq. ft.                               |      |      |      |      | Class 2 = 4800 RPM |      |      |      |      |      |      |      |       |      |
|-----------------|------|----------------------------|------|------|------|------|---|------|------|------|------|--------------------|------|------|------|------|------|------|------|-------|------|
|                 |      | Wheel circumference: 3.21' |      |      |      |      | Maximum BHP = $.101 \left(\frac{\text{RPM}}{1000}\right)^3$ |      |      |      |      |                    |      |      |      |      |      |      |      |       |      |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |   | 4"SP |      | 5"SP |      | 6"SP               |      | 7"SP |      | 8"SP |      | 9"SP |      | 10"SP |      |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP   | RPM  | BHP  | RPM  | BHP  | RPM                | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  |
| 1800            | 1161 | 1742                       | 0.70 | 2152 | 1.04 | 2559 | 1.47  | 2935 | 1.97 | 3263 | 2.49 | 3571               | 3.14 | 3842 | 3.80 | 4113 | 4.55 | 4349 | 5.27 | 4585  | 6.07 |
| 2400            | 1548 | 2042                       | 0.91 | 2392 | 1.33 | 2696 | 1.78  | 3005 | 2.30 | 3323 | 2.96 | 3605               | 3.64 | 3885 | 4.40 | 4148 | 5.21 | 4379 | 5.99 | 4617  | 6.88 |
| 3000            | 1935 | 2353                       | 1.20 | 2687 | 1.72 | 2960 | 2.25  | 3204 | 2.83 | 3453 | 3.52 | 3689               | 4.23 | 3939 | 5.04 | 4201 | 5.94 | 4422 | 6.77 | 4667  | 7.77 |
| 3300            | 2129 | 2513                       | 1.38 | 2843 | 1.96 | 3105 | 2.53  | 3342 | 3.20 | 3560 | 3.88 | 3783               | 4.63 | 3999 | 5.41 | 4231 | 6.30 | 4469 | 7.26 | 4684  | 8.19 |
| 3600            | 2323 | 2676                       | 1.58 | 2994 | 2.21 | 3256 | 2.88  | 3487 | 3.61 | 3691 | 4.32 | 3891               | 5.06 | 4096 | 5.88 | 4307 | 6.78 | 4499 | 7.64 | 4709  | 8.62 |
| 3900            | 2516 | 2844                       | 1.82 | 3150 | 2.49 | 3406 | 3.25  | 3631 | 4.03 | 3830 | 4.79 | 4030               | 5.62 | 4214 | 6.43 | 4399 | 7.29 | 4592 | 8.24 | 4782  | 9.22 |
| 4200            | 2710 | 3020                       | 2.09 | 3303 | 2.84 | 3557 | 3.66  | 3781 | 4.50 | 3975 | 5.31 | 4163               | 6.17 | 4341 | 7.03 | 4520 | 7.94 | 4697 | 8.88 |       |      |
| 4500            | 2903 | 3197                       | 2.40 | 3462 | 3.23 | 3714 | 4.12  | 3932 | 5.00 | 4126 | 5.88 | 4315               | 6.82 | 4482 | 7.70 | 4648 | 8.62 |      |      |       |      |
| 4800            | 3097 | 3378                       | 2.78 | 3622 | 3.66 | 3867 | 4.60  | 4087 | 5.56 | 4281 | 6.51 | 4459               | 7.46 | 4627 | 8.42 | 4781 | 9.35 |      |      |       |      |
| 5400            | 3484 | 3745                       | 3.70 | 3956 | 4.66 | 4181 | 5.71  | 4393 | 6.78 | 4581 | 7.82 | 4756               | 8.88 |      |      |      |      |      |      |       |      |
| 5700            | 3677 | 3931                       | 4.25 | 4129 | 5.24 | 4341 | 6.33  | 4543 | 7.43 | 4735 | 8.56 |                    |      |      |      |      |      |      |      |       |      |

| <b>SIZE 131</b> |      | Wheel diameter: 13½"       |      |      |      |      | Fan outlet area: 1.89 sq. ft.                               |      |      |      |      | Class 2 = 4245 RPM |      |      |      |      |      |      |      |       |      |
|-----------------|------|----------------------------|------|------|------|------|---|------|------|------|------|--------------------|------|------|------|------|------|------|------|-------|------|
|                 |      | Wheel circumference: 3.53' |      |      |      |      | Maximum BHP = $.233 \left(\frac{\text{RPM}}{1000}\right)^3$ |      |      |      |      |                    |      |      |      |      |      |      |      |       |      |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |   | 4"SP |      | 5"SP |      | 6"SP               |      | 7"SP |      | 8"SP |      | 9"SP |      | 10"SP |      |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP   | RPM  | BHP  | RPM  | BHP  | RPM                | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  |
| 2000            | 1042 | 1465                       | 0.72 | 1900 | 1.16 | 2274 | 1.67  | 2596 | 2.22 | 2894 | 2.87 | 3170               | 3.63 | 3415 | 4.41 | 3649 | 5.26 | 3862 | 6.11 | 4069  | 7.03 |
| 2800            | 1458 | 1710                       | 0.97 | 2063 | 1.47 | 2369 | 2.03  | 2679 | 2.74 | 2957 | 3.54 | 3206               | 4.35 | 3441 | 5.21 | 3678 | 6.17 | 3894 | 7.13 | 4093  | 8.10 |
| 3600            | 1875 | 1967                       | 1.30 | 2307 | 1.94 | 2580 | 2.60  | 2823 | 3.37 | 3057 | 4.22 | 3302               | 5.20 | 3534 | 6.23 | 3749 | 7.26 | 3949 | 8.29 | 4141  | 9.36 |
| 4000            | 2083 | 2098                       | 1.51 | 2432 | 2.21 | 2697 | 2.97  | 2931 | 3.80 | 3147 | 4.67 | 3361               | 5.62 | 3586 | 6.71 | 3799 | 7.83 | 3987 | 8.89 | 4182  | 10.1 |
| 4400            | 2292 | 2241                       | 1.76 | 2556 | 2.52 | 2825 | 3.42  | 3054 | 4.31 | 3263 | 5.24 | 3454               | 6.17 | 3651 | 7.22 | 3842 | 8.31 | 4053 | 9.61 | 4240  | 10.8 |
| 4800            | 2500 | 2391                       | 2.05 | 2685 | 2.91 | 2943 | 3.86  | 3171 | 4.83 | 3374 | 5.81 | 3560               | 6.80 | 3743 | 7.86 | 3926 | 9.00 | 4098 | 10.2 |       |      |
| 5200            | 2708 | 2544                       | 2.38 | 2814 | 3.34 | 3068 | 4.36  | 3295 | 5.42 | 3495 | 6.47 | 3684               | 7.56 | 3855 | 8.63 | 4025 | 9.79 | 4184 | 10.9 |       |      |
| 5600            | 2917 | 2702                       | 2.80 | 2949 | 3.82 | 3199 | 4.93  | 3416 | 6.04 | 3623 | 7.21 | 3802               | 8.33 | 3969 | 9.46 | 4137 | 10.7 |      |      |       |      |
| 6400            | 3333 | 3026                       | 3.86 | 3233 | 4.96 | 3458 | 6.19  | 3670 | 7.45 | 3867 | 8.75 | 4044               | 10.0 | 4212 | 11.3 |      |      |      |      |       |      |
| 6800            | 3542 | 3190                       | 4.48 | 3386 | 5.64 | 3595 | 6.93  | 3798 | 8.24 | 3990 | 9.59 | 4168               | 11.0 |      |      |      |      |      |      |       |      |
| 7200            | 3750 | 3354                       | 5.17 | 3540 | 6.39 | 3730 | 7.70  | 3933 | 9.13 | 4120 | 10.5 |                    |      |      |      |      |      |      |      |       |      |

| <b>SIZE 151</b> |      | Wheel diameter: 15"        |      |      |      |      | Fan outlet area: 2.33 sq. ft.                               |      |      |      |      | Class 2 = 3800 RPM |      |      |      |      |      |      |      |       |      |
|-----------------|------|----------------------------|------|------|------|------|---|------|------|------|------|--------------------|------|------|------|------|------|------|------|-------|------|
|                 |      | Wheel circumference: 3.93' |      |      |      |      | Maximum BHP = $.330 \left(\frac{\text{RPM}}{1000}\right)^3$ |      |      |      |      |                    |      |      |      |      |      |      |      |       |      |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |   | 4"SP |      | 5"SP |      | 6"SP               |      | 7"SP |      | 8"SP |      | 9"SP |      | 10"SP |      |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP   | RPM  | BHP  | RPM  | BHP  | RPM                | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  |
| 2300            | 987  | 1374                       | 0.86 | 1695 | 1.38 | 2051 | 2.05  | 2355 | 2.85 | 2623 | 3.79 | 2859               | 4.79 | 3085 | 5.88 | 3284 | 6.97 | 3487 | 8.19 | 3676  | 9.45 |
| 2800            | 1202 | 1517                       | 1.05 | 1812 | 1.61 | 2070 | 2.26  | 2368 | 3.15 | 2641 | 4.14 | 2890               | 5.24 | 3100 | 6.32 | 3308 | 7.53 | 3507 | 8.82 | 3688  | 10.1 |
| 3800            | 1631 | 1799                       | 1.52 | 2101 | 2.29 | 2330 | 3.13  | 2523 | 4.04 | 2705 | 4.99 | 2914               | 6.14 | 3127 | 7.36 | 3350 | 8.74 | 3553 | 10.1 | 3736  | 11.5 |
| 4300            | 1845 | 1948                       | 1.83 | 2241 | 2.73 | 2471 | 3.70  | 2667 | 4.71 | 2830 | 5.69 | 2999               | 6.81 | 3161 | 7.94 | 3352 | 9.29 | 3545 | 10.7 | 3736  | 12.2 |
| 4800            | 2060 | 2103                       | 2.20 | 2378 | 3.24 | 2614 | 4.36  | 2807 | 5.44 | 2975 | 6.53 | 3126               | 7.65 | 3277 | 8.87 | 3424 | 10.1 | 3576 | 11.5 | 3742  | 12.9 |
| 5300            | 2275 | 2262                       | 2.66 | 2522 | 3.83 | 2755 | 5.08  | 2951 | 6.28 | 3117 | 7.45 | 3275               | 8.70 | 3409 | 9.90 | 3547 | 11.2 | 3678 | 12.6 |       |      |
| 5800            | 2489 | 2425                       | 3.24 | 2669 | 4.49 | 2895 | 5.85  | 3093 | 7.21 | 3265 | 8.52 | 3414               | 9.79 | 3556 | 11.1 | 3687 | 12.5 |      |      |       |      |
| 6300            | 2704 | 2590                       | 3.91 | 2820 | 5.25 | 3035 | 6.69  | 3231 | 8.17 | 3405 | 9.63 | 3560               | 11.1 | 3702 | 12.5 |      |      |      |      |       |      |
| 6800            | 2918 | 2758                       | 4.67 | 2976 | 6.11 | 3180 | 7.64  | 3369 | 9.20 | 3546 | 10.8 |                    |      |      |      |      |      |      |      |       |      |
| 7800            | 3348 | 3101                       | 6.55 | 3298 | 8.19 | 3479 | 9.85  | 3658 | 11.6 |      |      |                    |      |      |      |      |      |      |      |       |      |
| 8800            | 3777 | 3448                       | 8.91 | 3626 | 10.7 | 3796 | 12.6  |      |      |      |      |                    |      |      |      |      |      |      |      |       |      |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

# SIZE 161

Wheel diameter: 16½"  
Wheel circumference: 4.32'

Fan outlet area: 2.82 sq. ft.  
Maximum BHP = .563  $\left(\frac{RPM}{1000}\right)^3$

Class 2 = 3425 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 7"SP |      | 8"SP |      | 9"SP |      | 10"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  |
| 2500  | 887  | 1089 | 0.80 | 1468 | 1.39 | 1791 | 2.10 | 2066 | 2.95 | 2304 | 3.93 | 2520 | 4.98 | 2726 | 6.13 | 2908 | 7.28 | 3087 | 8.54 | 3260  | 9.88 |
| 3100  | 1099 | 1188 | 0.94 | 1485 | 1.55 | 1796 | 2.31 | 2071 | 3.27 | 2307 | 4.30 | 2529 | 5.45 | 2730 | 6.65 | 2908 | 7.85 | 3090 | 9.21 | 3247  | 10.5 |
| 3700  | 1312 | 1300 | 1.12 | 1568 | 1.79 | 1806 | 2.54 | 2080 | 3.60 | 2318 | 4.72 | 2532 | 5.91 | 2734 | 7.19 | 2924 | 8.54 | 3089 | 9.83 | 3254  | 11.3 |
| 4300  | 1525 | 1409 | 1.33 | 1667 | 2.08 | 1882 | 2.93 | 2092 | 3.95 | 2322 | 5.13 | 2548 | 6.44 | 2739 | 7.74 | 2923 | 9.12 | 3102 | 10.6 | 3257  | 12.0 |
| 4900  | 1738 | 1517 | 1.57 | 1776 | 2.42 | 1982 | 3.42 | 2166 | 4.47 | 2345 | 5.59 | 2546 | 6.91 | 2746 | 8.31 | 2935 | 9.80 | 3100 | 11.3 | 3271  | 12.9 |
| 5500  | 1950 | 1634 | 1.86 | 1886 | 2.84 | 2085 | 3.95 | 2259 | 5.07 | 2425 | 6.27 | 2587 | 7.55 | 2755 | 8.91 | 2936 | 10.4 | 3110 | 12.0 | 3282  | 13.7 |
| 6100  | 2163 | 1757 | 2.21 | 1993 | 3.32 | 2190 | 4.51 | 2362 | 5.77 | 2520 | 7.04 | 2664 | 8.32 | 2811 | 9.73 | 2958 | 11.2 | 3111 | 12.7 | 3281  | 14.5 |
| 6700  | 2376 | 1881 | 2.62 | 2103 | 3.87 | 2303 | 5.18 | 2470 | 6.52 | 2615 | 7.84 | 2765 | 9.30 | 2896 | 10.7 | 3025 | 12.2 | 3157 | 13.7 | 3300  | 15.4 |
| 7300  | 2589 | 2010 | 3.15 | 2216 | 4.48 | 2412 | 5.90 | 2579 | 7.32 | 2724 | 8.77 | 2861 | 10.3 | 2992 | 11.8 | 3121 | 13.4 | 3236 | 14.9 | 3353  | 16.5 |
| 7900  | 2801 | 2140 | 3.75 | 2337 | 5.19 | 2521 | 6.69 | 2688 | 8.21 | 2833 | 9.76 | 2965 | 11.3 | 3090 | 12.9 | 3212 | 14.6 | 3329 | 16.2 |       |      |
| 8500  | 3014 | 2274 | 4.44 | 2458 | 5.96 | 2632 | 7.56 | 2798 | 9.20 | 2944 | 10.8 | 3077 | 12.5 | 3198 | 14.2 | 3321 | 16.1 |      |      |       |      |
| 9100  | 3227 | 2407 | 5.21 | 2582 | 6.83 | 2748 | 8.52 | 2906 | 10.3 | 3057 | 12.0 | 3186 | 13.8 | 3307 | 15.6 |      |      |      |      |       |      |
| 9700  | 3440 | 2543 | 6.09 | 2708 | 7.79 | 2866 | 9.57 | 3016 | 11.4 | 3162 | 13.3 | 3296 | 15.1 | 3419 | 17.1 |      |      |      |      |       |      |
| 10300 | 3652 | 2681 | 7.08 | 2838 | 8.87 | 2986 | 10.7 | 3132 | 12.7 | 3275 | 14.7 | 3404 | 16.6 |      |      |      |      |      |      |       |      |
| 10900 | 3865 | 2819 | 8.16 | 2966 | 10.0 | 3112 | 12.0 | 3251 | 14.0 | 3385 | 16.1 |      |      |      |      |      |      |      |      |       |      |
| 11500 | 4078 | 2959 | 9.37 | 3098 | 11.3 | 3236 | 13.4 |      |      |      |      |      |      |      |      |      |      |      |      |       |      |

# SIZE 181

Wheel diameter: 18¼"  
Wheel circumference: 4.78'

Fan outlet area: 3.45 sq. ft.  
Maximum BHP = .757  $\left(\frac{RPM}{1000}\right)^3$

Class 1 = 2380 RPM  
Class 2 = 3105 RPM  
Class 3 = 3915 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 3000  | 870  | 971  | 0.88 | 1321 | 1.56 | 1607 | 2.38 | 1856 | 3.42 | 2079 | 4.57 | 2276 | 5.78 | 2632 | 8.45 | 2942  | 11.4 | 3232  | 14.6 | 3494  | 18.0 |
| 3900  | 1130 | 1087 | 1.10 | 1341 | 1.82 | 1628 | 2.76 | 1860 | 3.87 | 2078 | 5.13 | 2276 | 6.47 | 2626 | 9.33 | 2940  | 12.5 | 3224  | 15.9 | 3478  | 19.4 |
| 4800  | 1391 | 1206 | 1.37 | 1441 | 2.19 | 1642 | 3.17 | 1880 | 4.39 | 2095 | 5.75 | 2284 | 7.17 | 2622 | 10.2 | 2942  | 13.7 | 3209  | 17.1 | 3482  | 21.1 |
| 5700  | 1652 | 1331 | 1.70 | 1561 | 2.69 | 1744 | 3.81 | 1908 | 5.00 | 2105 | 6.41 | 2306 | 7.96 | 2643 | 11.2 | 2941  | 14.8 | 3217  | 18.6 | 3474  | 22.6 |
| 6600  | 1913 | 1462 | 2.11 | 1682 | 3.31 | 1859 | 4.57 | 2012 | 5.85 | 2156 | 7.23 | 2309 | 8.74 | 2655 | 12.2 | 2956  | 16.0 | 3225  | 20.0 | 3484  | 24.3 |
| 7500  | 2174 | 1597 | 2.61 | 1805 | 4.02 | 1980 | 5.45 | 2132 | 6.90 | 2269 | 8.37 | 2393 | 9.87 | 2663 | 13.3 | 2973  | 17.3 | 3246  | 21.5 | 3492  | 25.9 |
| 8400  | 2435 | 1739 | 3.30 | 1931 | 4.83 | 2102 | 6.43 | 2253 | 8.06 | 2384 | 9.64 | 2507 | 11.3 | 2738 | 14.8 | 2983  | 18.7 | 3256  | 23.0 | 3513  | 27.7 |
| 9300  | 2696 | 1884 | 4.11 | 2062 | 5.77 | 2226 | 7.52 | 2372 | 9.29 | 2503 | 11.1 | 2626 | 12.9 | 2845 | 16.5 | 3050  | 20.5 | 3269  | 24.7 | 3522  | 29.5 |
| 10200 | 2957 | 2033 | 5.08 | 2194 | 6.83 | 2353 | 8.75 | 2495 | 10.7 | 2626 | 12.6 | 2744 | 14.6 | 2959 | 18.5 | 3159  | 22.7 | 3340  | 26.9 | 3542  | 31.6 |
| 11100 | 3217 | 2186 | 6.21 | 2334 | 8.08 | 2483 | 10.1 | 2618 | 12.2 | 2750 | 14.3 | 2864 | 16.4 | 3080 | 20.7 | 3270  | 25.0 | 3448  | 29.5 | 3621  | 34.2 |
| 12000 | 3478 | 2339 | 7.51 | 2477 | 9.51 | 2614 | 11.6 | 2746 | 13.9 | 2869 | 16.1 | 2989 | 18.5 | 3197 | 23.0 | 3390  | 27.7 | 3565  | 32.5 | 3729  | 37.3 |
| 12900 | 3739 | 2494 | 9.00 | 2624 | 11.2 | 2750 | 13.4 | 2879 | 15.8 | 2999 | 18.2 | 3111 | 20.6 | 3321 | 25.6 | 3512  | 30.6 | 3678  | 35.5 | 3839  | 40.5 |
| 13800 | 4000 | 2652 | 10.7 | 2772 | 13.0 | 2891 | 15.3 | 3010 | 17.8 | 3127 | 20.4 | 3239 | 23.0 | 3441 | 28.2 | 3629  | 33.5 | 3800  | 38.9 |       |      |
| 14700 | 4261 | 2808 | 12.6 | 2923 | 15.0 | 3033 | 17.5 | 3147 | 20.1 | 3260 | 22.8 | 3365 | 25.5 | 3564 | 31.0 | 3754  | 36.9 |       |      |       |      |
| 15600 | 4522 | 2966 | 14.7 | 3074 | 17.3 | 3182 | 19.9 | 3285 | 22.6 | 3392 | 25.4 | 3493 | 28.2 | 3694 | 34.2 | 3876  | 40.2 |       |      |       |      |
| 16500 | 4783 | 3125 | 17.1 | 3228 | 19.8 | 3329 | 22.6 | 3430 | 25.4 | 3530 | 28.3 | 3627 | 31.3 | 3820 | 37.5 |       |      |       |      |       |      |

# SIZE 201

Wheel diameter: 20¼"  
Wheel circumference: 5.24'

Fan outlet area: 4.14 sq. ft.  
Maximum BHP = 1.20  $\left(\frac{RPM}{1000}\right)^3$

Class 1 = 2125 RPM  
Class 2 = 2735 RPM  
Class 3 = 3510 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 5000  | 1208 | 1023 | 1.35 | 1246 | 2.24 | 1488 | 3.44 | 1707 | 4.86 | 1899 | 6.37 | 2074 | 7.98 | 2392 | 11.5 | 2676  | 15.3 | 2937  | 19.5 | 3179  | 24.0 |
| 6000  | 1449 | 1125 | 1.67 | 1339 | 2.72 | 1514 | 3.95 | 1716 | 5.42 | 1913 | 7.05 | 2089 | 8.82 | 2400 | 12.6 | 2684  | 16.7 | 2936  | 21.0 | 3178  | 25.8 |
| 7000  | 1691 | 1231 | 2.05 | 1438 | 3.32 | 1604 | 4.67 | 1754 | 6.14 | 1922 | 7.82 | 2105 | 9.68 | 2409 | 13.6 | 2678  | 17.8 | 2940  | 22.6 | 3174  | 27.5 |
| 8000  | 1932 | 1342 | 2.51 | 1541 | 4.02 | 1705 | 5.57 | 1848 | 7.16 | 1978 | 8.81 | 2114 | 10.6 | 2427 | 14.8 | 2696  | 19.2 | 2944  | 24.1 | 3169  | 29.0 |
| 9000  | 2174 | 1455 | 3.12 | 1646 | 4.82 | 1806 | 6.54 | 1944 | 8.27 | 2067 | 10.0 | 2183 | 11.9 | 2430 | 16.0 | 2721  | 20.9 | 2958  | 25.7 | 3188  | 31.1 |
| 10000 | 2415 | 1576 | 3.89 | 1751 | 5.70 | 1909 | 7.62 | 2047 | 9.56 | 2165 | 11.4 | 2281 | 13.5 | 2488 | 17.5 | 2719  | 22.3 | 2979  | 27.6 | 3204  | 33.0 |
| 11000 | 2657 | 1699 | 4.78 | 1862 | 6.73 | 2013 | 8.82 | 2148 | 10.9 | 2267 | 13.0 | 2379 | 15.2 | 2582 | 19.6 | 2771  | 24.2 | 2973  | 29.2 | 3207  | 34.9 |
| 12000 | 2899 | 1823 | 5.81 | 1974 | 7.89 | 2118 | 10.1 | 2249 | 12.4 | 2370 | 14.7 | 2478 | 17.0 | 2678 | 21.7 | 2857  | 26.5 | 3023  | 31.5 | 3219  | 37.2 |
| 13000 | 3140 | 1951 | 7.01 | 2090 | 9.22 | 2229 | 11.6 | 2355 | 14.1 | 2473 | 16.5 | 2582 | 19.1 | 2775 | 24.0 | 2953  | 29.2 | 3118  | 34.5 | 3271  | 39.8 |
| 14000 | 3382 | 2082 | 8.41 | 2210 | 10.7 | 2338 | 13.2 | 2462 | 15.9 | 2577 | 18.5 | 2683 | 21.2 | 2875 | 26.5 | 3051  | 32.0 | 3209  | 37.5 | 3361  | 43.2 |
| 15000 | 3623 | 2212 | 9.97 | 2334 | 12.5 | 2455 | 15.1 | 2570 | 17.8 | 2682 | 20.7 | 2786 | 23.5 | 2977 | 29.2 | 3152  | 35.1 | 3310  | 40.9 | 3455  | 46.8 |
| 16000 | 3865 | 2343 | 11.7 | 2458 | 14.4 | 2570 | 17.1 | 2683 | 20.1 | 2790 | 23.0 | 2891 | 26.0 | 3086 | 32.3 | 3250  | 38.2 | 3408  | 44.5 |       |      |
| 17000 | 4106 | 2476 | 13.7 | 2584 | 16.5 | 2691 | 19.4 | 2795 | 22.4 | 2899 | 25.5 | 3003 | 28.8 | 3187 | 35.3 | 3351  | 41.6 | 3509  | 48.3 |       |      |
| 18000 | 4348 | 2608 | 15.9 | 2710 | 18.9 | 2813 | 22.0 | 2912 | 25.1 | 3011 | 28.3 | 3108 | 31.6 | 3292 | 38.5 | 3461  | 45.5 |       |      |       |      |
| 19000 | 4589 | 2743 | 18.4 | 2839 | 21.5 | 2934 | 24.6 | 3032 | 28.0 | 3125 | 31.3 | 3220 | 34.9 | 3399 | 42.1 |       |      |       |      |       |      |
| 20000 | 4831 | 2876 | 21.1 | 2970 | 24.4 | 3061 | 27.7 | 3151 | 31.1 | 3242 | 34.6 | 3331 | 38.2 | 3504 | 45.7 |       |      |       |      |       |      |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].



| <b>SIZE 221</b> |      | Wheel diameter: 22¼"<br>Wheel circumference: 5.82' |      |      |      |      |      |      |      |      |      | Fan outlet area: 5.12 sq. ft.<br>Maximum BHP = 2.02 $\left(\frac{\text{RPM}}{1000}\right)^3$ |      | Class 1 = 1970 RPM<br>Class 2 = 2570 RPM<br>Class 3 = 3240 RPM |      |       |      |       |      |       |      |
|-----------------|------|--|------|------|------|------|------|------|------|------|------|--|------|--|------|-------|------|-------|------|-------|------|
| CFM             | OV   | 1"SP   |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP   |      | 8"SP   |      | 10"SP |      | 12"SP |      | 14"SP |      |
|                 |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 5000            | 977  | 819  | 1.20 | 1117 | 2.28 | 1361 | 3.65 | 1568 | 5.20 | 1753 | 6.89 | 1923   | 8.73 | 2219   | 12.6 | 2475  | 16.8 | 2714  | 21.4 | 2921  | 26.1 |
| 6300            | 1230 | 879  | 1.45 | 1136 | 2.64 | 1366 | 4.19 | 1571 | 5.90 | 1755 | 7.74 | 1922   | 9.70 | 2218   | 13.9 | 2482  | 18.6 | 2716  | 23.4 | 2936  | 28.7 |
| 7600            | 1484 | 961  | 1.77 | 1180 | 3.11 | 1387 | 4.78 | 1583 | 6.67 | 1760 | 8.65 | 1927   | 10.8 | 2219   | 15.3 | 2484  | 20.2 | 2722  | 25.5 | 2938  | 31.1 |
| 8900            | 1738 | 1060   | 2.20 | 1243 | 3.68 | 1427 | 5.46 | 1606 | 7.46 | 1779 | 9.66 | 1934   | 11.9 | 2220   | 16.6 | 2478  | 21.8 | 2715  | 27.4 | 2934  | 33.2 |
| 10200           | 1992 | 1164   | 2.76 | 1322 | 4.39 | 1485 | 6.28 | 1644 | 8.34 | 1802 | 10.6 | 1948   | 13.0 | 2231   | 18.2 | 2490  | 23.8 | 2728  | 29.7 | 2941  | 35.8 |
| 11500           | 2246 | 1273   | 3.48 | 1414 | 5.25 | 1557 | 7.23 | 1702 | 9.43 | 1842 | 11.8 | 1984   | 14.3 | 2248   | 19.7 | 2499  | 25.6 | 2725  | 31.7 | 2945  | 38.3 |
| 12800           | 2500 | 1385   | 4.35 | 1515 | 6.29 | 1641 | 8.36 | 1769 | 10.6 | 1896 | 13.0 | 2026   | 15.7 | 2277   | 21.4 | 2515  | 27.5 | 2732  | 33.8 | 2945  | 40.7 |
| 14100           | 2754 | 1498   | 5.33 | 1620 | 7.49 | 1733 | 9.66 | 1847 | 12.0 | 1964 | 14.6 | 2083   | 17.3 | 2314   | 23.1 | 2537  | 29.4 | 2755  | 36.3 | 2955  | 43.2 |
| 15400           | 3008 | 1615   | 6.50 | 1727 | 8.84 | 1834 | 11.2 | 1936 | 13.6 | 2042 | 16.3 | 2151   | 19.1 | 2364   | 25.1 | 2575  | 31.7 | 2782  | 38.8 | 2980  | 46.1 |
| 16700           | 3262 | 1732   | 7.84 | 1838 | 10.4 | 1938 | 13.0 | 2033 | 15.5 | 2129 | 18.2 | 2226   | 21.1 | 2424   | 27.3 | 2622  | 34.1 | 2812  | 41.2 | 3008  | 49.1 |
| 18000           | 3516 | 1850   | 9.37 | 1950 | 12.1 | 2043 | 14.8 | 2134 | 17.6 | 2225 | 20.5 | 2312   | 23.4 | 2492   | 29.7 | 2680  | 36.8 | 2859  | 44.0 | 3040  | 52.0 |
| 19300           | 3770 | 1969   | 11.1 | 2063 | 14.1 | 2151 | 17.0 | 2239 | 20.0 | 2322 | 22.9 | 2403   | 26.0 | 2574   | 32.6 | 2744  | 39.7 | 2918  | 47.4 | 3089  | 55.4 |
| 20600           | 4023 | 2088   | 13.1 | 2178 | 16.2 | 2263 | 19.4 | 2346 | 22.5 | 2424 | 25.7 | 2501   | 28.8 | 2659   | 35.7 | 2817  | 42.9 | 2978  | 50.6 | 3138  | 58.8 |
| 21900           | 4277 | 2209   | 15.3 | 2294 | 18.6 | 2376 | 22.0 | 2454 | 25.3 | 2528 | 28.6 | 2604   | 32.1 | 2750   | 39.1 | 2899  | 46.5 | 3048  | 54.4 | 3201  | 62.8 |
| 23200           | 4531 | 2330   | 17.8 | 2411 | 21.2 | 2488 | 24.8 | 2564 | 28.4 | 2634 | 31.8 | 2705   | 35.4 | 2845   | 42.7 | 2985  | 50.4 | 3129  | 58.7 |       |      |
| 24500           | 4785 | 2450   | 20.5 | 2528 | 24.2 | 2602 | 27.9 | 2676 | 31.8 | 2742 | 35.3 | 2812   | 39.2 | 2942   | 46.6 | 3074  | 54.5 | 3208  | 62.9 |       |      |

| <b>SIZE 241</b> |      | Wheel diameter: 24½"<br>Wheel circumference: 6.41' |      |      |      |      |      |      |      |      |      | Fan outlet area: 6.21 sq. ft.<br>Maximum BHP = 3.43 $\left(\frac{\text{RPM}}{1000}\right)^3$ |      | Class 1 = 1790 RPM<br>Class 2 = 2335 RPM<br>Class 3 = 2940 RPM |      |       |      |       |      |       |      |
|-----------------|------|--|------|------|------|------|------|------|------|------|------|--|------|--|------|-------|------|-------|------|-------|------|
| CFM             | OV   | 1"SP   |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP   |      | 8"SP   |      | 10"SP |      | 12"SP |      | 14"SP |      |
|                 |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 7000            | 1127 | 793  | 1.63 | 1007 | 3.13 | 1225 | 4.97 | 1407 | 6.94 | 1571 | 9.11 | 1724   | 11.5 | 1991   | 16.5 | 2226  | 22.0 | 2447  | 28.1 | 2641  | 34.2 |
| 8500            | 1369 | 865  | 2.07 | 1058 | 3.76 | 1233 | 5.64 | 1412 | 7.78 | 1577 | 10.1 | 1724   | 12.6 | 1988   | 17.9 | 2227  | 23.9 | 2445  | 30.3 | 2638  | 36.8 |
| 10000           | 1610 | 944  | 2.61 | 1125 | 4.51 | 1279 | 6.55 | 1427 | 8.74 | 1582 | 11.2 | 1732   | 13.9 | 1994   | 19.5 | 2226  | 25.7 | 2439  | 32.3 | 2629  | 39.0 |
| 11500           | 1852 | 1029   | 3.28 | 1196 | 5.34 | 1342 | 7.58 | 1474 | 9.95 | 1603 | 12.5 | 1738   | 15.2 | 1998   | 21.2 | 2233  | 27.7 | 2443  | 34.6 | 2638  | 42.0 |
| 13000           | 2093 | 1119   | 4.07 | 1274 | 6.36 | 1413 | 8.78 | 1538 | 11.3 | 1654 | 14.0 | 1767   | 16.8 | 2002   | 22.9 | 2238  | 29.8 | 2449  | 37.1 | 2641  | 44.6 |
| 14500           | 2335 | 1213   | 5.02 | 1354 | 7.50 | 1488 | 10.1 | 1605 | 12.8 | 1719 | 15.8 | 1820   | 18.6 | 2031   | 25.1 | 2240  | 32.0 | 2442  | 39.2 | 2640  | 47.3 |
| 16000           | 2576 | 1308   | 6.10 | 1440 | 8.82 | 1564 | 11.6 | 1679 | 14.6 | 1785 | 17.6 | 1886   | 20.8 | 2072   | 27.3 | 2263  | 34.5 | 2452  | 42.0 | 2647  | 50.4 |
| 17500           | 2818 | 1405   | 7.38 | 1530 | 10.3 | 1646 | 13.4 | 1755 | 16.5 | 1859 | 19.7 | 1956   | 23.1 | 2134   | 30.0 | 2301  | 37.2 | 2475  | 45.1 | 2659  | 53.8 |
| 19000           | 3060 | 1505   | 8.86 | 1621 | 12.0 | 1728 | 15.2 | 1832 | 18.6 | 1933 | 22.0 | 2028   | 25.6 | 2204   | 33.0 | 2364  | 40.6 | 2520  | 48.6 | 2676  | 57.0 |
| 20500           | 3301 | 1606   | 10.6 | 1715 | 13.9 | 1817 | 17.4 | 1917 | 21.0 | 2012 | 24.6 | 2101   | 28.2 | 2271   | 36.0 | 2429  | 44.2 | 2572  | 52.2 | 2725  | 61.4 |
| 22000           | 3543 | 1706   | 12.5 | 1809 | 16.0 | 1906 | 19.7 | 1999 | 23.4 | 2089 | 27.3 | 2179   | 31.3 | 2345   | 39.5 | 2498  | 47.9 | 2641  | 56.6 | 2780  | 65.8 |
| 23500           | 3784 | 1809   | 14.7 | 1907 | 18.4 | 1999 | 22.3 | 2089 | 26.4 | 2175 | 30.4 | 2260   | 34.6 | 2417   | 42.9 | 2571  | 52.0 | 2708  | 61.0 | 2841  | 70.4 |
| 25000           | 4026 | 1911   | 17.1 | 2005 | 21.1 | 2094 | 25.2 | 2177 | 29.4 | 2258 | 33.6 | 2338   | 37.9 | 2496   | 47.0 | 2641  | 56.1 | 2779  | 65.8 | 2907  | 75.4 |
| 26500           | 4267 | 2014   | 19.8 | 2104 | 24.0 | 2187 | 28.3 | 2270 | 32.8 | 2347 | 37.2 | 2426   | 41.9 | 2574   | 51.1 | 2714  | 60.6 | 2848  | 70.5 |       |      |
| 28000           | 4509 | 2118   | 22.8 | 2203 | 27.2 | 2285 | 31.8 | 2361 | 36.3 | 2439 | 41.2 | 2513   | 46.0 | 2654   | 55.6 | 2791  | 65.5 | 2926  | 76.2 |       |      |
| 29500           | 4750 | 2222   | 26.1 | 2303 | 30.7 | 2383 | 35.5 | 2455 | 40.3 | 2528 | 45.2 | 2598   | 50.2 | 2736   | 60.4 | 2871  | 70.9 |       |      |       |      |

| <b>SIZE 271</b> |      | Wheel diameter: 27"<br>Wheel circumference: 7.07' |      |      |      |      |      |      |      |      |      | Fan outlet area: 7.54 sq. ft.<br>Maximum BHP = 5.77 $\left(\frac{\text{RPM}}{1000}\right)^3$ |      | Class 1 = 1540 RPM<br>Class 2 = 2010 RPM<br>Class 3 = 2530 RPM |      |       |      |       |      |       |      |
|-----------------|------|---|------|------|------|------|------|------|------|------|------|--|------|--|------|-------|------|-------|------|-------|------|
| CFM             | OV   | 1"SP  |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP   |      | 8"SP   |      | 10"SP |      | 12"SP |      | 14"SP |      |
|                 |      | RPM   | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 7900            | 1048 | 671   | 1.73 | 906  | 3.45 | 1099 | 5.51 | 1269 | 7.86 | 1414 | 10.3 | 1553   | 13.1 | 1783   | 18.8 | 2000  | 25.5 | 2188  | 32.3 | 2362  | 39.8 |
| 9800            | 1300 | 725   | 2.14 | 926  | 4.09 | 1109 | 6.37 | 1276 | 8.95 | 1418 | 11.6 | 1551   | 14.5 | 1789   | 20.7 | 1999  | 27.6 | 2186  | 34.8 | 2361  | 42.6 |
| 11700           | 1552 | 793   | 2.67 | 963  | 4.85 | 1129 | 7.33 | 1287 | 10.1 | 1427 | 13.0 | 1557   | 16.1 | 1795   | 22.8 | 2007  | 30.1 | 2194  | 37.8 | 2370  | 46.0 |
| 13600           | 1804 | 869   | 3.40 | 1015 | 5.75 | 1162 | 8.42 | 1304 | 11.3 | 1439 | 14.5 | 1568   | 17.8 | 1799   | 24.9 | 2004  | 32.4 | 2201  | 40.9 | 2369  | 49.2 |
| 15500           | 2056 | 951   | 4.32 | 1081 | 6.86 | 1210 | 9.71 | 1338 | 12.8 | 1463 | 16.1 | 1582   | 19.6 | 1808   | 27.1 | 2018  | 35.4 | 2198  | 43.6 | 2376  | 52.9 |
| 17400           | 2308 | 1036  | 5.41 | 1154 | 8.15 | 1268 | 11.2 | 1383 | 14.5 | 1495 | 17.9 | 1607   | 21.6 | 1826   | 29.7 | 2019  | 37.9 | 2202  | 46.7 | 2378  | 56.4 |
| 19300           | 2560 | 1123  | 6.67 | 1231 | 9.67 | 1334 | 12.8 | 1439 | 16.4 | 1541 | 20.0 | 1642   | 23.8 | 1841   | 32.0 | 2040  | 41.2 | 2219  | 50.6 | 2385  | 60.2 |
| 21200           | 2812 | 1211  | 8.11 | 1312 | 11.5 | 1407 | 14.8 | 1504 | 18.6 | 1596 | 22.3 | 1692   | 26.5 | 1879   | 35.2 | 2062  | 44.5 | 2231  | 54.0 | 2397  | 64.3 |
| 23100           | 3064 | 1302  | 9.80 | 1396 | 13.5 | 1486 | 17.1 | 1572 | 20.9 | 1659 | 24.9 | 1747   | 29.3 | 1916   | 38.1 | 2085  | 47.7 | 2253  | 58.0 | 2412  | 68.6 |
| 25000           | 3316 | 1393  | 11.7 | 1483 | 15.8 | 1566 | 19.7 | 1647 | 23.6 | 1725 | 27.8 | 1808   | 32.3 | 1965   | 41.6 | 2121  | 51.3 | 2283  | 62.3 | 2430  | 72.8 |
| 26900           | 3568 | 1484  | 13.9 | 1570 | 18.3 | 1647 | 22.5 | 1725 | 26.7 | 1800 | 31.1 | 1873   | 35.7 | 2022   | 45.4 | 2171  | 55.8 | 2320  | 66.8 | 2463  | 78.1 |
| 28800           | 3820 | 1576  | 16.4 | 1658 | 21.1 | 1732 | 25.6 | 1804 | 30.0 | 1875 | 34.6 | 1944   | 39.4 | 2082   | 49.4 | 2220  | 60.1 | 2362  | 71.6 | 2497  | 83.2 |
| 30700           | 4072 | 1668  | 19.2 | 1748 | 24.2 | 1818 | 29.1 | 1887 | 33.9 | 1955 | 38.7 | 2020   | 43.6 | 2152   | 54.1 | 2282  | 65.3 | 2414  | 77.0 |       |      |
| 32600           | 4324 | 1761  | 22.3 | 1837 | 27.5 | 1905 | 32.9 | 1972 | 38.1 | 2037 | 43.1 | 2098   | 48.1 | 2220   | 58.8 | 2343  | 70.3 | 2470  | 82.7 |       |      |
| 34500           | 4576 | 1854  | 25.9 | 1928 | 31.3 | 1994 | 37.0 | 2059 | 42.6 | 2118 | 47.8 | 2177   | 53.1 | 2294   | 64.2 | 2411  | 76.1 | 2525  | 88.2 |       |      |
| 36400           | 4828 | 1948  | 29.8 | 2020 | 35.4 | 2084 | 41.5 | 2144 | 47.3 | 2202 | 52.9 | 2259   | 58.6 | 2371   | 70.0 | 2482  | 82.2 |       |      |       |      |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

# SIZE 301

Wheel diameter: 30"  
Wheel circumference: 7.85'

Fan outlet area: 9.31 sq. ft.  
Maximum BHP = 9.76  $\left(\frac{RPM}{1000}\right)^3$

Class 1 = 1385 RPM  
Class 2 = 1805 RPM  
Class 3 = 2275 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 10300 | 1106 | 613  | 2.17 | 818  | 4.42 | 992  | 7.06 | 1143 | 9.99 | 1274 | 13.1 | 1392 | 16.4 | 1605 | 23.7 | 1797  | 31.9 | 1974  | 40.9 | 2134  | 50.4 |
| 12600 | 1353 | 664  | 2.71 | 839  | 5.23 | 999  | 8.06 | 1148 | 11.3 | 1277 | 14.7 | 1401 | 18.4 | 1612 | 26.2 | 1801  | 34.7 | 1971  | 43.9 | 2123  | 53.3 |
| 14900 | 1600 | 726  | 3.45 | 873  | 6.16 | 1021 | 9.31 | 1157 | 12.7 | 1285 | 16.3 | 1405 | 20.3 | 1615 | 28.6 | 1800  | 37.4 | 1970  | 47.0 | 2130  | 57.4 |
| 17200 | 1847 | 794  | 4.38 | 924  | 7.33 | 1054 | 10.7 | 1178 | 14.3 | 1299 | 18.2 | 1414 | 22.4 | 1619 | 31.1 | 1810  | 40.9 | 1975  | 50.7 | 2136  | 61.7 |
| 19500 | 2095 | 867  | 5.52 | 982  | 8.68 | 1097 | 12.3 | 1209 | 16.1 | 1322 | 20.3 | 1429 | 24.7 | 1627 | 33.8 | 1815  | 44.1 | 1985  | 54.9 | 2134  | 65.6 |
| 21800 | 2342 | 943  | 6.88 | 1047 | 10.3 | 1149 | 14.1 | 1251 | 18.1 | 1353 | 22.5 | 1450 | 27.0 | 1643 | 36.9 | 1823  | 47.6 | 1989  | 58.7 | 2139  | 70.1 |
| 24100 | 2589 | 1020 | 8.44 | 1116 | 12.2 | 1209 | 16.1 | 1301 | 20.5 | 1395 | 25.2 | 1483 | 29.8 | 1660 | 39.9 | 1835  | 51.1 | 1997  | 62.8 | 2147  | 74.9 |
| 26400 | 2836 | 1098 | 10.2 | 1189 | 14.4 | 1275 | 18.6 | 1358 | 23.1 | 1442 | 27.9 | 1526 | 32.9 | 1693 | 43.7 | 1854  | 55.0 | 2008  | 67.0 | 2159  | 80.0 |
| 28700 | 3083 | 1178 | 12.3 | 1263 | 16.9 | 1343 | 21.3 | 1420 | 26.0 | 1499 | 31.2 | 1574 | 36.2 | 1728 | 47.4 | 1879  | 59.2 | 2028  | 71.8 | 2173  | 85.1 |
| 31000 | 3330 | 1258 | 14.6 | 1339 | 19.7 | 1413 | 24.4 | 1488 | 29.5 | 1557 | 34.5 | 1630 | 40.1 | 1771 | 51.6 | 1915  | 64.0 | 2054  | 76.9 | 2195  | 91.0 |
| 33300 | 3577 | 1339 | 17.3 | 1416 | 22.8 | 1487 | 28.0 | 1556 | 33.2 | 1622 | 38.5 | 1691 | 44.4 | 1821 | 56.1 | 1954  | 68.9 | 2086  | 82.4 | 2219  | 96.7 |
| 35600 | 3824 | 1420 | 20.3 | 1493 | 26.1 | 1561 | 31.8 | 1625 | 37.2 | 1688 | 42.8 | 1752 | 48.8 | 1877 | 61.3 | 2001  | 74.5 | 2123  | 88.1 | 2248  | 103  |
| 37900 | 4071 | 1501 | 23.7 | 1573 | 29.9 | 1637 | 36.0 | 1699 | 41.8 | 1758 | 47.6 | 1819 | 53.9 | 1934 | 66.6 | 2052  | 80.3 | 2169  | 94.6 |       |      |
| 40200 | 4318 | 1583 | 27.5 | 1653 | 34.0 | 1714 | 40.5 | 1773 | 46.9 | 1830 | 53.0 | 1887 | 59.4 | 1998 | 72.6 | 2109  | 86.9 | 2219  | 102  |       |      |
| 42500 | 4565 | 1665 | 31.7 | 1733 | 38.5 | 1792 | 45.5 | 1849 | 52.4 | 1904 | 58.8 | 1958 | 65.4 | 2064 | 79.2 | 2169  | 93.9 | 2272  | 109  |       |      |
| 44800 | 4812 | 1747 | 36.4 | 1813 | 43.3 | 1871 | 50.9 | 1924 | 58.0 | 1979 | 65.2 | 2030 | 72.0 | 2132 | 86.3 | 2232  | 101  |       |      |       |      |

# SIZE 331

Wheel diameter: 33"  
Wheel circumference: 8.64'

Fan outlet area: 11.3 sq. ft.  
Maximum BHP = 15.7  $\left(\frac{RPM}{1000}\right)^3$

Class 1 = 1265 RPM  
Class 2 = 1650 RPM  
Class 3 = 2080 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 12000 | 1065 | 553  | 2.47 | 743  | 5.25 | 901  | 8.42 | 1037 | 11.9 | 1161 | 15.8 | 1272 | 19.9 | 1462 | 28.5 | 1636  | 38.2 | 1795  | 48.6 | 1935  | 59.3 |
| 14800 | 1313 | 594  | 3.12 | 757  | 6.11 | 908  | 9.64 | 1043 | 13.5 | 1163 | 17.7 | 1271 | 22.0 | 1468 | 31.6 | 1639  | 41.8 | 1790  | 52.5 | 1940  | 64.6 |
| 17600 | 1562 | 649  | 3.98 | 790  | 7.25 | 926  | 11.0 | 1051 | 15.2 | 1169 | 19.7 | 1275 | 24.3 | 1469 | 34.5 | 1641  | 45.5 | 1799  | 57.4 | 1936  | 69.2 |
| 20400 | 1810 | 710  | 5.06 | 832  | 8.57 | 953  | 12.6 | 1067 | 16.9 | 1181 | 21.9 | 1283 | 26.8 | 1472 | 37.5 | 1648  | 49.5 | 1801  | 61.8 | 1939  | 74.3 |
| 23200 | 2059 | 776  | 6.36 | 884  | 10.2 | 992  | 14.5 | 1095 | 19.0 | 1198 | 24.1 | 1296 | 29.5 | 1478 | 40.7 | 1651  | 53.3 | 1799  | 65.8 | 1947  | 80.0 |
| 26000 | 2307 | 844  | 7.95 | 943  | 12.1 | 1037 | 16.6 | 1132 | 21.5 | 1225 | 26.7 | 1319 | 32.4 | 1492 | 44.3 | 1657  | 57.4 | 1810  | 71.1 | 1948  | 85.1 |
| 28800 | 2555 | 914  | 9.81 | 1003 | 14.3 | 1091 | 19.1 | 1175 | 24.1 | 1264 | 29.8 | 1348 | 35.6 | 1511 | 48.1 | 1666  | 61.4 | 1815  | 75.9 | 1954  | 90.8 |
| 31600 | 2804 | 986  | 12.1 | 1069 | 16.8 | 1148 | 21.9 | 1226 | 27.2 | 1306 | 33.1 | 1382 | 39.0 | 1539 | 52.3 | 1682  | 65.9 | 1830  | 81.4 | 1962  | 96.6 |
| 34400 | 3052 | 1059 | 14.7 | 1136 | 19.8 | 1209 | 25.1 | 1282 | 30.8 | 1354 | 36.8 | 1425 | 43.0 | 1570 | 56.7 | 1709  | 71.1 | 1840  | 86.0 | 1973  | 103  |
| 37200 | 3301 | 1132 | 17.6 | 1204 | 23.0 | 1273 | 28.7 | 1340 | 34.7 | 1409 | 41.1 | 1475 | 47.6 | 1608 | 61.6 | 1735  | 76.1 | 1868  | 92.5 | 1992  | 109  |
| 40000 | 3549 | 1206 | 21.0 | 1275 | 26.8 | 1339 | 32.8 | 1404 | 39.3 | 1464 | 45.6 | 1526 | 52.3 | 1652 | 67.0 | 1774  | 82.3 | 1895  | 98.6 | 2012  | 116  |
| 42800 | 3798 | 1279 | 24.7 | 1346 | 31.0 | 1408 | 37.4 | 1467 | 44.1 | 1526 | 50.9 | 1584 | 58.0 | 1701 | 73.1 | 1816  | 88.8 | 1927  | 105  | 2043  | 123  |
| 45600 | 4046 | 1354 | 29.0 | 1419 | 35.8 | 1475 | 42.3 | 1533 | 49.4 | 1589 | 56.6 | 1644 | 64.0 | 1752 | 79.4 | 1860  | 95.6 | 1968  | 113  | 2073  | 131  |
| 48400 | 4295 | 1430 | 33.9 | 1491 | 41.0 | 1547 | 48.0 | 1601 | 55.3 | 1652 | 62.7 | 1705 | 70.5 | 1809 | 86.6 | 1911  | 103  | 2011  | 121  |       |      |
| 51200 | 4543 | 1507 | 39.3 | 1564 | 46.8 | 1617 | 54.0 | 1668 | 61.6 | 1718 | 69.4 | 1769 | 77.6 | 1867 | 94.4 | 1964  | 112  | 2063  | 130  |       |      |
| 54000 | 4791 | 1583 | 45.3 | 1637 | 53.1 | 1690 | 60.9 | 1738 | 68.7 | 1785 | 76.7 | 1834 | 85.4 | 1928 | 103  | 2020  | 121  |       |      |       |      |

# SIZE 361

Wheel diameter: 36½"  
Wheel circumference: 9.56'

Fan outlet area: 13.8 sq. ft.  
Maximum BHP = 26.9  $\left(\frac{RPM}{1000}\right)^3$

Class 1 = 1110 RPM  
Class 2 = 1450 RPM  
Class 3 = 1825 RPM

| CFM   | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|
|       |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 15000 | 1088 | 491  | 2.95 | 664  | 6.26 | 810  | 10.3 | 938  | 15.0 | 1048 | 19.9 | 1145 | 25.0 | 1324 | 36.5 | 1477  | 48.7 | 1622  | 62.4 | 1751  | 76.4 |
| 18400 | 1334 | 526  | 3.73 | 674  | 7.26 | 812  | 11.5 | 934  | 16.3 | 1048 | 21.8 | 1147 | 27.4 | 1325 | 39.7 | 1482  | 53.1 | 1622  | 67.2 | 1754  | 82.4 |
| 21800 | 1581 | 570  | 4.71 | 699  | 8.57 | 822  | 13.0 | 938  | 17.9 | 1045 | 23.5 | 1147 | 29.6 | 1326 | 42.8 | 1485  | 57.2 | 1622  | 71.8 | 1755  | 88.1 |
| 25200 | 1827 | 624  | 6.01 | 735  | 10.2 | 842  | 14.8 | 950  | 20.0 | 1050 | 25.6 | 1146 | 31.8 | 1324 | 45.6 | 1480  | 60.5 | 1621  | 76.3 | 1754  | 93.5 |
| 28600 | 2074 | 686  | 7.64 | 775  | 12.0 | 875  | 17.0 | 967  | 22.3 | 1063 | 28.3 | 1156 | 34.7 | 1326 | 48.8 | 1480  | 64.2 | 1625  | 81.3 | 1754  | 98.7 |
| 32000 | 2321 | 749  | 9.64 | 824  | 14.2 | 912  | 19.5 | 999  | 25.2 | 1085 | 31.5 | 1166 | 37.7 | 1331 | 52.2 | 1477  | 67.6 | 1617  | 84.7 | 1753  | 104  |
| 35400 | 2567 | 812  | 11.9 | 879  | 16.8 | 956  | 22.4 | 1036 | 28.4 | 1115 | 35.0 | 1191 | 41.7 | 1342 | 56.3 | 1484  | 72.0 | 1620  | 89.5 | 1748  | 108  |
| 38800 | 2814 | 875  | 14.6 | 940  | 20.0 | 1003 | 25.6 | 1077 | 32.1 | 1148 | 38.7 | 1220 | 45.8 | 1358 | 60.7 | 1496  | 77.3 | 1626  | 94.8 | 1754  | 114  |
| 42200 | 3060 | 933  | 17.4 | 1003 | 23.6 | 1057 | 29.4 | 1120 | 36.0 | 1190 | 43.2 | 1256 | 50.7 | 1384 | 66.1 | 1510  | 82.6 | 1634  | 101  | 1756  | 120  |
| 45600 | 3307 | 967  | 19.2 | 1066 | 27.7 | 1116 | 33.9 | 1171 | 40.6 | 1232 | 47.9 | 1297 | 56.0 | 1417 | 72.1 | 1536  | 89.4 | 1653  | 108  | 1766  | 127  |
| 49000 | 3553 | 1027 | 22.7 | 1129 | 32.3 | 1178 | 38.9 | 1226 | 45.9 | 1280 | 53.4 | 1338 | 61.5 | 1451 | 78.1 | 1562  | 95.8 | 1672  | 115  | 1783  | 135  |
| 52400 | 3800 | 1093 | 26.9 | 1193 | 37.4 | 1242 | 44.6 | 1284 | 51.7 | 1331 | 59.3 | 1383 | 67.6 | 1494 | 85.6 | 1598  | 104  | 1699  | 123  | 1805  | 144  |
| 55800 | 4046 | 1160 | 31.8 | 1254 | 42.7 | 1305 | 50.8 | 1346 | 58.4 | 1388 | 66.2 | 1432 | 74.2 | 1535 | 92.9 | 1636  | 112  | 1734  | 132  |       |      |
| 59200 | 4293 | 1228 | 37.3 | 1312 | 48.3 | 1368 | 57.6 | 1409 | 65.7 | 1447 | 73.7 | 1487 | 82.2 | 1578 | 101  | 1677  | 121  | 1768  | 141  |       |      |
| 62600 | 4540 | 1296 | 43.4 | 1356 | 53.1 | 1432 | 65.0 | 1472 | 73.6 | 1508 | 81.9 | 1544 | 90.5 | 1626 | 109  | 1719  | 131  | 1809  | 152  |       |      |
| 66000 | 4786 | 1365 | 50.2 | 1392 | 57.1 | 1493 | 72.7 | 1535 | 82.1 | 1572 | 91.3 | 1606 | 100  | 1678 | 119  | 1761  | 140  |       |      |       |      |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

| <b>SIZE 401</b> |      | Wheel diameter: 40¼"       |      |      |      |      | Fan outlet area: 16.8 sq. ft. |      |      |      |      | Class 1 = 1005 RPM<br>Class 2 = 1315 RPM<br>Class 3 = 1655 RPM |      |      |      |       |      |       |      |       |      |
|-----------------|------|----------------------------|------|------|------|------|-------------------------------|------|------|------|------|--|------|------|------|-------|------|-------|------|-------|------|
|                 |      | Wheel circumference: 10.5' |      |      |      |      |                               |      |      |      |      | Maximum BHP = 43.8 $\left(\frac{\text{RPM}}{1000}\right)^3$    |      |      |      |       |      |       |      |       |      |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |                               | 4"SP |      | 5"SP |      | 6"SP   |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |      |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP                           | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  |
| 19000           | 1131 | 450                        | 3.73 | 602  | 7.79 | 736  | 12.8                          | 848  | 18.4 | 951  | 24.7 | 1040   | 31.0 | 1200 | 45.0 | 1345  | 60.7 | 1472  | 77.0 | 1584  | 93.6 |
| 23000           | 1369 | 482                        | 4.69 | 612  | 8.99 | 737  | 14.2                          | 849  | 20.2 | 950  | 26.8 | 1038   | 33.6 | 1202 | 48.9 | 1346  | 65.5 | 1470  | 82.4 | 1586  | 101  |
| 27000           | 1607 | 522                        | 5.90 | 637  | 10.6 | 746  | 16.0                          | 852  | 22.1 | 949  | 28.9 | 1040   | 36.4 | 1200 | 52.2 | 1342  | 69.5 | 1473  | 88.4 | 1587  | 107  |
| 31000           | 1845 | 571                        | 7.45 | 669  | 12.5 | 765  | 18.1                          | 860  | 24.4 | 953  | 31.4 | 1040   | 38.9 | 1202 | 55.9 | 1343  | 74.0 | 1470  | 93.3 | 1590  | 114  |
| 35000           | 2083 | 625                        | 9.45 | 706  | 14.7 | 794  | 20.8                          | 880  | 27.4 | 965  | 34.6 | 1046   | 42.2 | 1201 | 59.2 | 1340  | 78.0 | 1471  | 98.7 | 1588  | 120  |
| 39000           | 2321 | 681                        | 11.8 | 748  | 17.3 | 828  | 23.8                          | 906  | 30.7 | 982  | 38.1 | 1059   | 46.1 | 1206 | 63.5 | 1340  | 82.3 | 1468  | 103  | 1585  | 126  |
| 43000           | 2560 | 736                        | 14.5 | 796  | 20.3 | 865  | 27.1                          | 939  | 34.5 | 1009 | 42.3 | 1078   | 50.5 | 1213 | 67.9 | 1348  | 87.9 | 1469  | 109  | 1586  | 132  |
| 47000           | 2798 | 791                        | 17.5 | 849  | 24.1 | 908  | 31.0                          | 976  | 38.9 | 1041 | 47.1 | 1105   | 55.5 | 1232 | 73.8 | 1356  | 93.7 | 1476  | 115  | 1589  | 138  |
| 51000           | 3036 | 843                        | 20.9 | 904  | 28.3 | 955  | 35.5                          | 1012 | 43.3 | 1074 | 51.9 | 1135   | 60.9 | 1253 | 79.9 | 1370  | 100  | 1485  | 122  | 1594  | 146  |
| 55000           | 3274 | 872                        | 23.0 | 960  | 33.1 | 1007 | 40.7                          | 1056 | 48.6 | 1112 | 57.6 | 1169   | 66.9 | 1280 | 86.6 | 1391  | 108  | 1499  | 131  | 1605  | 154  |
| 59000           | 3512 | 923                        | 27.0 | 1016 | 38.4 | 1061 | 46.5                          | 1104 | 54.7 | 1153 | 63.8 | 1207   | 73.6 | 1312 | 94.0 | 1415  | 116  | 1513  | 138  | 1612  | 162  |
| 63000           | 3750 | 981                        | 31.8 | 1071 | 44.2 | 1115 | 52.9                          | 1155 | 61.4 | 1197 | 70.5 | 1245   | 80.6 | 1345 | 102  | 1445  | 125  | 1540  | 148  | 1630  | 172  |
| 67000           | 3988 | 1039                       | 37.4 | 1125 | 50.5 | 1171 | 60.2                          | 1208 | 69.1 | 1247 | 78.5 | 1290   | 88.8 | 1383 | 111  | 1477  | 134  | 1565  | 158  |       |      |
| 71000           | 4226 | 1099                       | 43.6 | 1178 | 57.2 | 1227 | 67.9                          | 1263 | 77.5 | 1299 | 87.2 | 1336   | 97.4 | 1420 | 120  | 1512  | 145  | 1597  | 169  |       |      |
| 75000           | 4464 | 1158                       | 50.7 | 1222 | 63.3 | 1282 | 76.4                          | 1320 | 86.9 | 1353 | 97.0 | 1387   | 107  | 1464 | 130  | 1548  | 155  | 1632  | 182  |       |      |
| 79000           | 4702 | 1218                       | 58.5 | 1246 | 67.1 | 1337 | 85.5                          | 1375 | 96.7 | 1408 | 107  | 1439   | 118  | 1506 | 141  | 1587  | 167  |       |      |       |      |

| <b>SIZE 441</b> |      | Wheel diameter: 44½"       |      |      |      |      | Fan outlet area: 20.5 sq. ft. |      |      |      |      | Class 1 = 910 RPM<br>Class 2 = 1190 RPM<br>Class 3 = 1495 RPM |      |      |      |       |      |       |      |       |     |
|-----------------|------|----------------------------|------|------|------|------|-------------------------------|------|------|------|------|---|------|------|------|-------|------|-------|------|-------|-----|
|                 |      | Wheel circumference: 11.6' |      |      |      |      |                               |      |      |      |      | Maximum BHP = 72.4 $\left(\frac{\text{RPM}}{1000}\right)^3$   |      |      |      |       |      |       |      |       |     |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |                               | 4"SP |      | 5"SP |      | 6"SP  |      | 8"SP |      | 10"SP |      | 12"SP |      | 14"SP |     |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP                           | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP |
| 20000           | 976  | 393                        | 3.92 | 544  | 8.77 | 664  | 14.5                          | 770  | 21.3 | 858  | 28.1 | 942   | 35.9 | 1087 | 52.3 | 1213  | 69.9 | 1327  | 88.8 | 1430  | 108 |
| 25200           | 1229 | 418                        | 5.03 | 547  | 10.1 | 666  | 16.4                          | 767  | 23.3 | 859  | 31.2 | 941   | 39.4 | 1089 | 57.3 | 1214  | 76.1 | 1330  | 96.7 | 1436  | 119 |
| 30400           | 1483 | 452                        | 6.40 | 563  | 11.9 | 670  | 18.4                          | 767  | 25.6 | 859  | 34.0 | 941   | 42.8 | 1090 | 62.2 | 1218  | 82.7 | 1331  | 104  | 1439  | 128 |
| 35600           | 1737 | 495                        | 8.17 | 592  | 14.2 | 683  | 20.9                          | 775  | 28.6 | 859  | 36.8 | 940   | 46.0 | 1088 | 66.5 | 1214  | 87.8 | 1331  | 111  | 1439  | 136 |
| 40800           | 1990 | 545                        | 10.5 | 625  | 16.9 | 709  | 24.2                          | 787  | 31.9 | 867  | 40.6 | 944   | 50.0 | 1085 | 70.5 | 1213  | 93.4 | 1334  | 119  | 1439  | 144 |
| 46000           | 2244 | 598                        | 13.4 | 662  | 20.0 | 738  | 27.7                          | 812  | 36.3 | 881  | 44.9 | 953   | 54.6 | 1088 | 75.6 | 1216  | 99.5 | 1332  | 125  | 1438  | 152 |
| 51200           | 2498 | 652                        | 16.7 | 708  | 23.9 | 773  | 32.0                          | 841  | 40.9 | 906  | 50.3 | 970   | 60.2 | 1097 | 81.8 | 1220  | 106  | 1328  | 131  | 1433  | 158 |
| 56400           | 2751 | 705                        | 20.6 | 758  | 28.4 | 813  | 36.9                          | 875  | 46.4 | 933  | 55.9 | 995   | 66.6 | 1109 | 88.5 | 1225  | 113  | 1332  | 139  | 1437  | 167 |
| 61600           | 3005 | 756                        | 24.9 | 810  | 33.7 | 857  | 42.4                          | 911  | 52.2 | 968  | 62.7 | 1025  | 73.9 | 1131 | 96.7 | 1239  | 122  | 1342  | 148  | 1443  | 178 |
| 66800           | 3259 | 785                        | 27.8 | 864  | 39.9 | 906  | 49.0                          | 951  | 58.7 | 1003 | 69.7 | 1055  | 81.2 | 1158 | 106  | 1256  | 131  | 1352  | 158  | 1450  | 188 |
| 72000           | 3512 | 834                        | 32.8 | 918  | 46.7 | 958  | 56.6                          | 996  | 66.5 | 1042 | 77.7 | 1091  | 89.9 | 1185 | 115  | 1280  | 142  | 1371  | 170  | 1458  | 198 |
| 77200           | 3766 | 889                        | 39.1 | 971  | 54.3 | 1011 | 65.1                          | 1046 | 75.5 | 1086 | 86.9 | 1128  | 98.8 | 1220 | 126  | 1309  | 153  | 1392  | 182  | 1479  | 212 |
| 82400           | 4020 | 946                        | 46.5 | 1023 | 62.7 | 1065 | 74.6                          | 1098 | 85.5 | 1132 | 97.0 | 1170  | 109  | 1253 | 136  | 1339  | 166  | 1420  | 195  |       |     |
| 87600           | 4273 | 1003                       | 54.7 | 1072 | 71.1 | 1118 | 84.6                          | 1152 | 96.7 | 1183 | 109  | 1215  | 121  | 1293 | 149  | 1372  | 179  | 1451  | 210  |       |     |
| 92800           | 4527 | 1060                       | 64.0 | 1112 | 78.9 | 1172 | 96.0                          | 1205 | 109  | 1235 | 121  | 1265  | 134  | 1331 | 162  | 1406  | 192  | 1483  | 225  |       |     |
| 98000           | 4780 | 1118                       | 74.4 | 1141 | 84.9 | 1224 | 108                           | 1259 | 122  | 1288 | 135  | 1316  | 149  | 1376 | 177  | 1445  | 208  |       |      |       |     |

| <b>SIZE 491</b> |      | Wheel diameter: 49"        |      |      |      |      | Fan outlet area: 24.9 sq. ft. |      |      |      |      | Class 1 = 850 RPM<br>Class 2 = 1105 RPM<br>Class 3 = 1395 RPM |      |      |      |       |      |       |     |       |     |
|-----------------|------|----------------------------|------|------|------|------|-------------------------------|------|------|------|------|---|------|------|------|-------|------|-------|-----|-------|-----|
|                 |      | Wheel circumference: 12.8' |      |      |      |      |                               |      |      |      |      | Maximum BHP = 117 $\left(\frac{\text{RPM}}{1000}\right)^3$    |      |      |      |       |      |       |     |       |     |
| CFM             | OV   | 1"SP                       |      | 2"SP |      | 3"SP |                               | 4"SP |      | 5"SP |      | 6"SP  |      | 8"SP |      | 10"SP |      | 12"SP |     | 14"SP |     |
|                 |      | RPM                        | BHP  | RPM  | BHP  | RPM  | BHP                           | RPM  | BHP  | RPM  | BHP  | RPM   | BHP  | RPM  | BHP  | RPM   | BHP  | RPM   | BHP | RPM   | BHP |
| 25000           | 1004 | 359                        | 4.91 | 493  | 10.8 | 604  | 18.0                          | 698  | 26.0 | 781  | 34.7 | 855   | 44.0 | 987  | 64.0 | 1103  | 86.0 | 1204  | 108 | 1302  | 134 |
| 32000           | 1285 | 386                        | 6.41 | 500  | 12.7 | 604  | 20.3                          | 697  | 29.0 | 779  | 38.5 | 855   | 48.7 | 986  | 70.3 | 1102  | 93.8 | 1207  | 119 | 1305  | 146 |
| 39000           | 1566 | 423                        | 8.40 | 520  | 15.4 | 612  | 23.3                          | 699  | 32.2 | 778  | 42.0 | 852   | 52.8 | 989  | 77.1 | 1105  | 102  | 1209  | 129 | 1307  | 158 |
| 46000           | 1847 | 470                        | 11.1 | 550  | 18.6 | 629  | 27.0                          | 707  | 36.2 | 785  | 46.8 | 854   | 57.7 | 984  | 82.2 | 1101  | 109  | 1207  | 138 | 1307  | 169 |
| 53000           | 2129 | 522                        | 14.6 | 586  | 22.5 | 657  | 31.6                          | 727  | 41.5 | 794  | 52.1 | 863   | 64.0 | 987  | 88.9 | 1101  | 117  | 1208  | 148 | 1303  | 179 |
| 60000           | 2410 | 576                        | 18.9 | 629  | 27.3 | 692  | 37.1                          | 754  | 47.6 | 815  | 58.8 | 875   | 70.6 | 995  | 97.0 | 1103  | 125  | 1206  | 156 | 1306  | 191 |
| 67000           | 2691 | 630                        | 23.9 | 678  | 33.2 | 729  | 43.2                          | 786  | 54.4 | 842  | 66.3 | 896   | 78.7 | 1003 | 105  | 1111  | 135  | 1212  | 167 | 1306  | 201 |
| 74000           | 2972 | 681                        | 29.5 | 731  | 40.2 | 773  | 50.6                          | 823  | 62.4 | 876  | 75.1 | 925   | 88.0 | 1023 | 116  | 1119  | 145  | 1218  | 179 | 1308  | 213 |
| 81000           | 3253 | 713                        | 33.8 | 785  | 48.4 | 823  | 59.6                          | 865  | 71.5 | 910  | 84.4 | 959   | 98.6 | 1050 | 128  | 1138  | 158  | 1230  | 192 | 1316  | 227 |
| 88000           | 3534 | 763                        | 40.6 | 839  | 57.7 | 875  | 69.7                          | 911  | 82.2 | 951  | 95.6 | 994   | 110  | 1081 | 141  | 1165  | 173  | 1248  | 208 | 1328  | 243 |
| 95000           | 3815 | 819                        | 49.3 | 893  | 68.1 | 929  | 81.5                          | 961  | 94.4 | 995  | 108  | 1032  | 122  | 1115 | 155  | 1193  | 188  | 1269  | 223 | 1345  | 260 |
| 102000          | 4096 | 876                        | 59.5 | 944  | 79.2 | 983  | 94.2                          | 1014 | 108  | 1043 | 122  | 1077  | 138  | 1152 | 171  | 1225  | 206  | 1296  | 241 | 1368  | 280 |
| 109000          | 4378 | 934                        | 71.2 | 992  | 90.9 | 1037 | 109                           | 1067 | 124  | 1095 | 138  | 1123  | 154  | 1189 | 188  | 1259  | 224  | 1331  | 263 |       |     |
| 116000          | 4659 | 992                        | 84.4 | 1016 | 97.3 | 1091 | 124                           | 1121 | 141  | 1148 | 156  | 1174  | 172  | 1230 | 206  | 1297  | 244  | 1365  | 284 |       |     |
| 123000          | 4940 | 1050                       | 99.4 | 1067 | 112  | 1143 | 141                           | 1175 | 159  | 1201 | 176  | 1226  | 192  | 1278 | 227  | 1336  | 265  |       |     |       |     |
| 130000          | 5221 | 1109                       | 116  | 1123 | 128  | 1193 | 159                           | 1229 | 179  | 1256 | 197  | 1280  | 215  | 1327 | 251  | 1379  | 289  |       |     |       |     |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

# SIZE 541

Wheel diameter: 54 1/4"  
Wheel circumference: 14.2'

Fan outlet area: 30.5 sq. ft.  
Maximum BHP = 195  $\left(\frac{\text{RPM}}{1000}\right)^3$

Class 1 = 750 RPM  
Class 2 = 975 RPM  
Class 3 = 1230 RPM

| CFM    | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |      | 10"SP |     | 12"SP |     | 14"SP |     |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----|-------|-----|-------|-----|
|        |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM   | BHP | RPM   | BHP | RPM   | BHP |
| 35000  | 1148 | 336  | 6.92 | 447  | 14.3 | 546  | 23.5 | 629  | 33.6 | 705  | 45.0 | 771  | 56.6 | 889  | 82.0 | 996   | 110 | 1090  | 140 | 1179  | 172 |
| 42300  | 1387 | 360  | 8.67 | 456  | 16.6 | 548  | 26.1 | 629  | 36.7 | 704  | 48.8 | 773  | 62.0 | 891  | 88.9 | 998   | 119 | 1090  | 150 | 1181  | 185 |
| 49600  | 1626 | 390  | 10.9 | 474  | 19.6 | 555  | 29.3 | 633  | 40.5 | 705  | 52.9 | 770  | 66.0 | 893  | 96.1 | 997   | 127 | 1092  | 161 | 1181  | 197 |
| 56900  | 1866 | 427  | 13.8 | 498  | 23.0 | 571  | 33.6 | 641  | 45.0 | 709  | 57.8 | 771  | 71.1 | 889  | 101  | 994   | 134 | 1089  | 170 | 1183  | 209 |
| 64200  | 2105 | 467  | 17.5 | 526  | 27.0 | 592  | 38.4 | 654  | 50.2 | 716  | 63.2 | 777  | 77.2 | 890  | 108  | 995   | 143 | 1089  | 179 | 1176  | 218 |
| 71500  | 2344 | 509  | 21.8 | 557  | 31.8 | 618  | 43.9 | 675  | 56.6 | 731  | 70.0 | 787  | 84.5 | 896  | 116  | 997   | 151 | 1090  | 189 | 1179  | 230 |
| 78800  | 2584 | 550  | 26.9 | 595  | 37.6 | 645  | 49.9 | 699  | 63.5 | 751  | 77.7 | 802  | 92.5 | 902  | 125  | 1001  | 161 | 1093  | 200 | 1177  | 240 |
| 86100  | 2823 | 591  | 32.5 | 634  | 44.4 | 676  | 56.8 | 725  | 70.9 | 775  | 86.4 | 821  | 102  | 914  | 134  | 1005  | 170 | 1096  | 211 | 1177  | 252 |
| 93400  | 3062 | 629  | 38.5 | 676  | 52.4 | 712  | 65.2 | 755  | 80.0 | 801  | 95.7 | 844  | 112  | 932  | 147  | 1016  | 183 | 1104  | 224 | 1183  | 266 |
| 100700 | 3302 | 650  | 42.5 | 717  | 61.2 | 751  | 74.9 | 787  | 89.6 | 829  | 106  | 871  | 123  | 952  | 159  | 1032  | 197 | 1112  | 238 | 1189  | 281 |
| 108000 | 3541 | 690  | 49.9 | 759  | 71.0 | 791  | 85.5 | 823  | 101  | 859  | 117  | 899  | 135  | 976  | 172  | 1053  | 213 | 1126  | 254 | 1199  | 297 |
| 115300 | 3780 | 733  | 58.9 | 800  | 81.7 | 832  | 97.6 | 862  | 113  | 894  | 131  | 927  | 148  | 1003 | 188  | 1073  | 228 | 1143  | 271 | 1213  | 316 |
| 122600 | 4020 | 776  | 69.2 | 840  | 93.3 | 874  | 111  | 902  | 127  | 930  | 145  | 961  | 163  | 1029 | 203  | 1097  | 245 | 1165  | 290 | 1229  | 335 |
| 129900 | 4259 | 821  | 80.9 | 878  | 105  | 916  | 125  | 943  | 143  | 968  | 160  | 996  | 180  | 1058 | 220  | 1125  | 265 | 1186  | 309 |       |     |
| 137200 | 4498 | 865  | 93.8 | 910  | 116  | 957  | 141  | 985  | 160  | 1009 | 178  | 1033 | 197  | 1088 | 238  | 1152  | 285 | 1212  | 331 |       |     |
| 144500 | 4738 | 910  | 108  | 930  | 124  | 997  | 158  | 1026 | 178  | 1051 | 198  | 1073 | 218  | 1122 | 259  | 1181  | 306 |       |     |       |     |

# SIZE 601

Wheel diameter: 60"  
Wheel circumference: 15.7'

Fan outlet area: 37.3 sq. ft.  
Maximum BHP = 323  $\left(\frac{\text{RPM}}{1000}\right)^3$

Class 1 = 675 RPM  
Class 2 = 880 RPM  
Class 3 = 1110 RPM

| CFM    | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |     | 10"SP |     | 12"SP |     | 14"SP |     |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|-----|-------|-----|-------|-----|
|        |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP | RPM   | BHP | RPM   | BHP | RPM   | BHP |
| 50000  | 1340 | 321  | 10.2 | 411  | 19.8 | 494  | 31.1 | 569  | 44.3 | 637  | 58.9 | 699  | 74.6 | 805  | 107 | 902   | 144 | 986   | 181 | 1062  | 221 |
| 60000  | 1609 | 350  | 13.1 | 428  | 23.7 | 500  | 35.4 | 571  | 49.1 | 637  | 64.4 | 697  | 80.7 | 807  | 117 | 901   | 155 | 988   | 196 | 1066  | 239 |
| 70000  | 1877 | 388  | 17.1 | 452  | 28.4 | 516  | 41.2 | 580  | 55.3 | 639  | 70.3 | 698  | 87.3 | 804  | 124 | 899   | 165 | 985   | 208 | 1067  | 255 |
| 80000  | 2145 | 429  | 22.2 | 480  | 34.1 | 538  | 47.8 | 594  | 62.6 | 650  | 78.7 | 704  | 96.0 | 806  | 134 | 899   | 176 | 988   | 223 | 1066  | 271 |
| 90000  | 2413 | 471  | 28.3 | 514  | 40.9 | 564  | 55.4 | 616  | 71.5 | 665  | 87.9 | 715  | 106  | 812  | 145 | 901   | 188 | 987   | 235 | 1066  | 285 |
| 100000 | 2681 | 512  | 35.5 | 552  | 49.4 | 595  | 64.5 | 641  | 81.1 | 688  | 99.2 | 733  | 118  | 820  | 157 | 907   | 202 | 988   | 249 | 1066  | 301 |
| 110000 | 2949 | 553  | 43.6 | 593  | 59.4 | 628  | 74.7 | 670  | 92.5 | 713  | 112  | 753  | 131  | 835  | 173 | 916   | 218 | 994   | 266 | 1068  | 318 |
| 120000 | 3217 | 582  | 50.4 | 635  | 70.8 | 666  | 87.2 | 701  | 105  | 741  | 125  | 779  | 146  | 854  | 189 | 928   | 235 | 1003  | 285 | 1075  | 338 |
| 130000 | 3485 | 615  | 58.6 | 677  | 83.7 | 707  | 102  | 736  | 120  | 769  | 140  | 806  | 161  | 878  | 208 | 947   | 255 | 1014  | 305 | 1082  | 359 |
| 140000 | 3753 | 658  | 70.7 | 719  | 98.4 | 748  | 117  | 775  | 137  | 803  | 157  | 836  | 179  | 903  | 227 | 969   | 278 | 1032  | 329 | 1096  | 384 |
| 150000 | 4021 | 702  | 84.8 | 759  | 114  | 790  | 135  | 816  | 156  | 841  | 177  | 868  | 199  | 931  | 249 | 993   | 301 | 1053  | 355 |       |     |
| 160000 | 4290 | 747  | 101  | 798  | 131  | 833  | 156  | 858  | 178  | 880  | 199  | 904  | 222  | 961  | 273 | 1020  | 327 | 1076  | 382 |       |     |
| 170000 | 4558 | 792  | 119  | 822  | 142  | 874  | 178  | 899  | 201  | 921  | 223  | 943  | 247  | 992  | 298 | 1046  | 353 | 1104  | 414 |       |     |
| 180000 | 4826 | 838  | 139  | 854  | 158  | 916  | 201  | 941  | 226  | 963  | 251  | 983  | 275  | 1027 | 327 | 1078  | 385 |       |     |       |     |
| 190000 | 5094 | 883  | 162  | 895  | 180  | 955  | 225  | 984  | 255  | 1005 | 281  | 1025 | 306  | 1064 | 359 | 1108  | 415 |       |     |       |     |
| 200000 | 5362 | 929  | 187  | 939  | 205  | 992  | 250  | 1025 | 284  | 1047 | 312  | 1067 | 340  | 1104 | 394 |       |     |       |     |       |     |

# SIZE 661

Wheel diameter: 66"  
Wheel circumference: 17.3'

Fan outlet area: 45.1 sq. ft.  
Maximum BHP = 519  $\left(\frac{\text{RPM}}{1000}\right)^3$

Class 1 = 615 RPM  
Class 2 = 800 RPM  
Class 3 = 1010 RPM

| CFM    | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |      | 8"SP |     | 10"SP |     | 12"SP |     | 14"SP |     |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|-----|-------|-----|-------|-----|
|        |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP | RPM   | BHP | RPM   | BHP | RPM   | BHP |
| 70000  | 1552 | 313  | 15.1 | 384  | 27.4 | 453  | 41.6 | 518  | 57.9 | 578  | 76.1 | 635  | 96.4 | 732  | 138 | 821   | 185 | 897   | 233 | 968   | 284 |
| 80000  | 1774 | 338  | 18.6 | 402  | 32.1 | 463  | 47.1 | 522  | 63.4 | 581  | 82.5 | 633  | 102  | 733  | 147 | 818   | 195 | 897   | 246 | 970   | 301 |
| 90000  | 1996 | 368  | 23.2 | 422  | 37.2 | 478  | 53.3 | 532  | 70.8 | 584  | 89.1 | 637  | 110  | 731  | 155 | 816   | 205 | 897   | 260 | 969   | 317 |
| 100000 | 2217 | 400  | 28.7 | 444  | 43.3 | 496  | 60.3 | 545  | 78.3 | 593  | 97.6 | 641  | 119  | 734  | 165 | 820   | 218 | 898   | 274 | 968   | 331 |
| 110000 | 2439 | 431  | 35.0 | 470  | 50.4 | 516  | 68.1 | 561  | 87.2 | 607  | 108  | 651  | 129  | 736  | 176 | 820   | 229 | 894   | 284 | 969   | 348 |
| 120000 | 2661 | 463  | 42.3 | 499  | 58.7 | 537  | 76.8 | 581  | 97.4 | 622  | 118  | 664  | 141  | 744  | 189 | 822   | 241 | 899   | 301 | 968   | 361 |
| 130000 | 2882 | 493  | 50.2 | 529  | 68.4 | 563  | 87.1 | 602  | 108  | 641  | 130  | 680  | 154  | 756  | 204 | 829   | 257 | 901   | 315 | 971   | 379 |
| 140000 | 3104 | 521  | 58.3 | 561  | 79.3 | 591  | 98.9 | 625  | 121  | 662  | 144  | 697  | 168  | 769  | 220 | 838   | 275 | 909   | 336 | 974   | 398 |
| 150000 | 3326 | 537  | 63.6 | 593  | 91.9 | 620  | 112  | 650  | 134  | 682  | 157  | 718  | 183  | 785  | 237 | 850   | 293 | 914   | 353 | 978   | 418 |
| 160000 | 3548 | 567  | 74.0 | 624  | 105  | 651  | 127  | 677  | 149  | 707  | 174  | 738  | 200  | 803  | 256 | 865   | 315 | 924   | 374 | 988   | 443 |
| 170000 | 3769 | 600  | 86.3 | 655  | 120  | 682  | 143  | 707  | 167  | 732  | 191  | 761  | 218  | 823  | 277 | 882   | 337 | 939   | 400 | 995   | 465 |
| 180000 | 3991 | 633  | 100  | 686  | 136  | 714  | 161  | 736  | 185  | 760  | 211  | 785  | 237  | 843  | 297 | 900   | 361 | 953   | 424 | 1007  | 491 |
| 190000 | 4213 | 667  | 116  | 715  | 152  | 745  | 181  | 768  | 207  | 789  | 233  | 812  | 260  | 865  | 321 | 920   | 386 | 972   | 452 |       |     |
| 200000 | 4435 | 701  | 133  | 742  | 168  | 777  | 202  | 799  | 229  | 820  | 256  | 840  | 284  | 889  | 347 | 941   | 414 | 992   | 483 |       |     |
| 210000 | 4656 | 735  | 152  | 754  | 177  | 808  | 224  | 831  | 254  | 851  | 282  | 870  | 311  | 913  | 373 | 961   | 440 |       |     |       |     |
| 220000 | 4878 | 769  | 173  | 783  | 196  | 839  | 248  | 863  | 281  | 883  | 311  | 901  | 340  | 939  | 401 | 985   | 472 |       |     |       |     |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

# SIZE 731

Wheel diameter: 73"  
Wheel circumference: 19.1'

Fan outlet area: 55.2 sq. ft.  
Maximum BHP = 860  $\left(\frac{\text{RPM}}{1000}\right)^3$

Class 1 = 555 RPM  
Class 2 = 725 RPM  
Class 3 = 915 RPM

| CFM    | OV   | 1"SP |      | 2"SP |      | 3"SP |      | 4"SP |      | 5"SP |      | 6"SP |     | 8"SP |     | 10"SP |     | 12"SP |     | 14"SP |     |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
|        |      | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP | RPM  | BHP | RPM   | BHP | RPM   | BHP | RPM   | BHP |
| 80000  | 1449 | 273  | 16.8 | 342  | 31.4 | 408  | 48.5 | 467  | 68.0 | 524  | 90.5 | 574  | 114 | 661  | 164 | 743   | 221 | 812   | 278 | 874   | 337 |
| 93000  | 1685 | 296  | 21.0 | 356  | 36.7 | 414  | 54.7 | 471  | 75.2 | 524  | 97.5 | 574  | 122 | 664  | 177 | 741   | 234 | 812   | 296 | 877   | 361 |
| 106000 | 1920 | 324  | 26.4 | 374  | 43.2 | 427  | 62.6 | 478  | 83.5 | 526  | 106  | 574  | 131 | 660  | 186 | 741   | 248 | 811   | 313 | 875   | 379 |
| 119000 | 2156 | 354  | 33.1 | 395  | 50.6 | 443  | 71.2 | 490  | 93.5 | 534  | 117  | 579  | 143 | 664  | 200 | 742   | 263 | 811   | 330 | 876   | 401 |
| 132000 | 2391 | 384  | 41.2 | 420  | 59.5 | 462  | 81.0 | 505  | 105  | 546  | 129  | 586  | 155 | 667  | 214 | 740   | 276 | 809   | 344 | 874   | 419 |
| 145000 | 2627 | 414  | 50.3 | 447  | 70.3 | 483  | 92.6 | 523  | 118  | 561  | 143  | 598  | 170 | 671  | 228 | 745   | 295 | 810   | 363 | 873   | 437 |
| 158000 | 2862 | 444  | 60.6 | 476  | 82.6 | 507  | 105  | 542  | 131  | 579  | 159  | 613  | 187 | 683  | 249 | 750   | 314 | 813   | 383 | 877   | 461 |
| 171000 | 3098 | 471  | 71.2 | 506  | 96.7 | 533  | 120  | 564  | 147  | 598  | 175  | 630  | 205 | 694  | 267 | 759   | 337 | 821   | 410 | 881   | 487 |
| 184000 | 3333 | 486  | 78.3 | 537  | 113  | 562  | 138  | 588  | 165  | 619  | 194  | 650  | 225 | 711  | 292 | 770   | 361 | 829   | 436 | 885   | 512 |
| 197000 | 3569 | 516  | 91.9 | 567  | 131  | 591  | 157  | 615  | 185  | 642  | 215  | 671  | 248 | 728  | 316 | 782   | 386 | 838   | 463 | 894   | 545 |
| 210000 | 3804 | 547  | 108  | 597  | 150  | 622  | 179  | 643  | 207  | 666  | 238  | 692  | 271 | 747  | 342 | 801   | 418 | 852   | 496 | 903   | 577 |
| 223000 | 4040 | 579  | 127  | 626  | 170  | 652  | 202  | 673  | 233  | 693  | 264  | 716  | 297 | 767  | 371 | 817   | 447 | 868   | 530 | 915   | 611 |
| 236000 | 4275 | 612  | 148  | 654  | 192  | 682  | 229  | 702  | 260  | 722  | 293  | 742  | 326 | 788  | 401 | 836   | 479 | 883   | 562 |       |     |
| 249000 | 4511 | 645  | 171  | 677  | 211  | 712  | 256  | 733  | 291  | 751  | 324  | 769  | 359 | 811  | 435 | 857   | 517 | 901   | 600 |       |     |
| 262000 | 4746 | 677  | 197  | 692  | 225  | 742  | 287  | 764  | 324  | 781  | 360  | 798  | 395 | 835  | 471 | 877   | 553 |       |     |       |     |
| 275000 | 4982 | 710  | 225  | 721  | 252  | 771  | 318  | 794  | 359  | 811  | 396  | 828  | 433 | 862  | 510 | 901   | 596 |       |     |       |     |

Performance certified is for installation Type B: Free inlet, Ducted outlet. Power rating [BHP] does not include transmission losses. Performance ratings do not include the effects of appurtenances [accessories].

## MATERIAL SPECIFICATIONS

Dimensions in inches. Weights in pounds. WR<sup>2</sup> in lb.-ft.<sup>2</sup>.

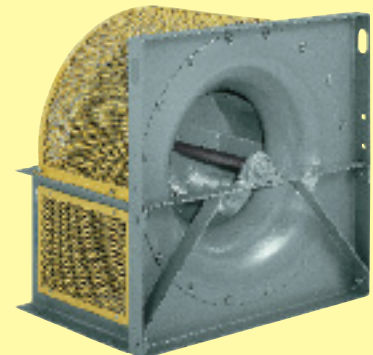
| Size | Shaft diameter |         |         |         |         |         | Bearings |       |       | Drive key [square] |       |       | Wheel WR <sup>2</sup> [lb.-ft. <sup>2</sup> ] |       |       | Bare fan weight [lbs.] |       |       |
|------|----------------|---------|---------|---------|---------|---------|----------|-------|-------|--------------------|-------|-------|---|-------|-------|------------------------|-------|-------|
|      | Class 1        |         | Class 2 |         | Class 3 |         | Class    | Class | Class | Class              | Class | Class | Class   | Class | Class | Class                  | Class |       |
|      | Wheel          | Bearing | Wheel   | Bearing | Wheel   | Bearing | 1        | 2     | 3     | 1                  | 2     | 3     | 1   | 2     | 3     | 1                      | 2     | 3     |
| 101  | —              | —       | 1       | 1       | —       | —       | —        | A     | —     | —                  | 1/4   | —     | —   | 0.8   | —     | —                      | 65    | —     |
| 121  | —              | —       | 1 3/16  | 1 3/16  | —       | —       | —        | A     | —     | —                  | 1/4   | —     | —   | 1.8   | —     | —                      | 90    | —     |
| 131  | —              | —       | 1 7/16  | 1 7/16  | —       | —       | —        | A     | —     | —                  | 3/8   | —     | —   | 2.8   | —     | —                      | 114   | —     |
| 151  | —              | —       | 1 7/16  | 1 7/16  | —       | —       | —        | A     | —     | —                  | 3/8   | —     | —   | 3.8   | —     | —                      | 144   | —     |
| 161  | —              | —       | 1 11/16 | 1 11/16 | —       | —       | —        | A     | —     | —                  | 3/8   | —     | —   | 12    | —     | —                      | 197   | —     |
| 181  | 1 11/16        | 1 11/16 | 1 15/16 | 1 15/16 | 2 3/16  | 2 3/16  | H        | H     | E     | 3/8                | 1/2   | 1/2   | 19  | 19    | 22    | 265                    | 275   | 440   |
| 201  | 1 11/16        | 1 11/16 | 1 15/16 | 1 15/16 | 2 7/16  | 2 7/16  | H        | H     | E     | 3/8                | 1/2   | 5/8   | 28  | 28    | 35    | 292                    | 306   | 510   |
| 221  | 1 15/16        | 1 15/16 | 2 3/16  | 2 3/16  | 2 7/16  | 2 7/16  | H        | H     | E     | 1/2                | 1/2   | 5/8   | 40  | 40    | 48    | 360                    | 375   | 590   |
| 241  | 2 3/16         | 2 3/16  | 2 7/16  | 2 7/16  | 2 15/16 | 2 3/16  | H        | H     | F     | 1/2                | 5/8   | 1/2   | 64  | 64    | 81    | 460                    | 475   | 845   |
| 271  | 2 3/16         | 2 3/16  | 2 7/16  | 2 7/16  | 2 15/16 | 2 3/16  | A        | C     | F     | 1/2                | 5/8   | 1/2   | 93  | 93    | 115   | 530                    | 575   | 880   |
| 301  | 2 7/16         | 2 7/16  | 2 11/16 | 1 15/16 | 3 7/16  | 2 7/16  | A        | F     | F     | 5/8                | 1/2   | 5/8   | 149   | 149   | 179   | 790                    | 835   | 1065  |
| 331  | 2 7/16         | 2 7/16  | 2 15/16 | 2 3/16  | 3 7/16  | 2 7/16  | A        | F     | F     | 5/8                | 1/2   | 5/8   | 219   | 220   | 251   | 925                    | 1000  | 1325  |
| 361  | 2 11/16        | 2 11/16 | 2 15/16 | 2 3/16  | 3 15/16 | 2 11/16 | A        | F     | F     | 5/8                | 1/2   | 5/8   | 363   | 363   | 417   | 1180                   | 1225  | 2200  |
| 401  | 2 15/16        | 2 15/16 | 3 7/16  | 2 7/16  | 3 15/16 | 2 11/16 | A        | F     | F     | 3/4                | 5/8   | 5/8   | 534   | 535   | 605   | 1345                   | 1445  | 2350  |
| 441  | 3 7/16         | 2 7/16  | 3 15/16 | 2 11/16 | 4 7/16  | 2 15/16 | F        | F     | F     | 5/8                | 5/8   | 3/4   | 872   | 874   | 1102  | 1730                   | 1840  | 2750  |
| 491  | 3 7/16         | 2 11/16 | 4 7/16  | 2 15/16 | 4 15/16 | 3 7/16  | F        | F     | F     | 5/8                | 3/4   | 7/8   | 1356  | 1406  | 2032  | 2205                   | 2380  | 3350  |
| 541  | 3 15/16        | 2 15/16 | 4 7/16  | 3 7/16  | 5 7/16  | 3 15/16 | F        | F     | F     | 3/4                | 7/8   | 1     | 2019  | 2096  | 3230  | 2820                   | 2955  | 4300  |
| 601  | 3 15/16        | 2 15/16 | 4 15/16 | 3 7/16  | 5 7/16  | 4 7/16  | F        | F     | F*    | 3/4                | 7/8   | 1     | 3068  | 3189  | 4756  | 3550                   | 3855  | 4540  |
| 661  | 4 7/16         | 3 7/16  | 5 7/16  | 3 15/16 | 6       | 4 7/16  | F        | F     | F*    | 7/8                | 1     | 1     | 5821  | 6008  | 7985  | 4585                   | 4980  | 6960  |
| 731  | 4 15/16        | 3 15/16 | 6       | 3 15/16 | 6 1/2   | 4 15/16 | F        | F     | F*    | 1                  | 1     | 1 1/4 | 9374  | 9627  | 12918 | 7155                   | 7465  | 10000 |

Shafting: AISI 1040 turned, ground, polished and straightened. Bearing types: A—Link-Belt P3-U200. C—Sealmaster SPM. E—Link-Belt P-U300. F—Link-Belt P-B22400. F\*—Link-Belt P-B22500. H—Dodge GTAH Grip-Tight. **nyb** reserves the right to substitute bearings of equal ratings.



### PLENUM FANS

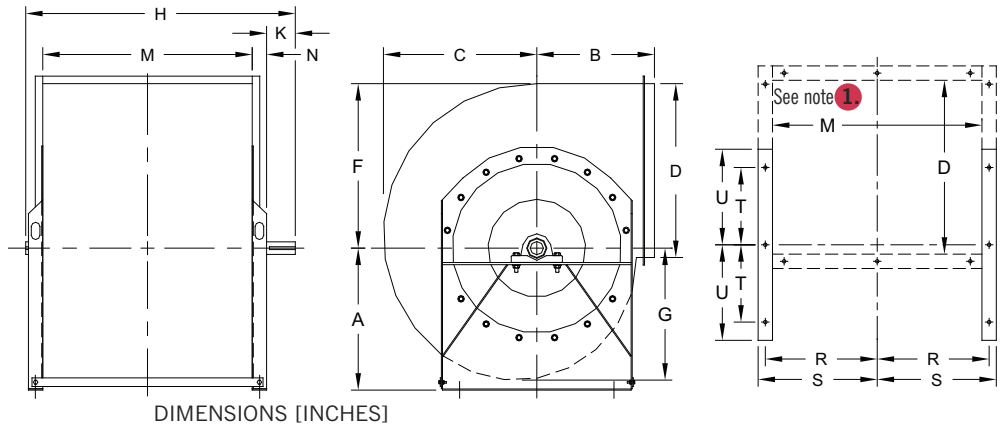
Unhoused, single-width, Plenum Fans are available for airflows to 150,000 CFM and pressures to 12"WG. Nineteen sizes are offered from 12" to 73" wheel diameters. Designs include belt and direct-drive arrangements.



# DIMENSIONS

## ROTATABLE FANS

Dimensions should not be used for construction unless certified.



DIMENSIONS [INCHES]

| Size | A           |                  |         | B*   |     | C   | D   | F   | G   | H       |         |         | K          |         | M   |
|------|-------------|------------------|---------|------|-----|-----|-----|-----|-----|---------|---------|---------|------------|---------|-----|
|      | Class 1, 2  |                  | Class 3 | ▲    | TAD |     |     |     |     | Class 1 | Class 2 | Class 3 | Class 1, 2 | Class 3 |     |
|      | TH, TAD, DB | BH, UB, TAU, BAU |         |      |     |     |     |     |     |         |         |         |            |         |     |
| 101  | 9½          | 11¼              | —       | 8½   | 8½  | 10⅞ | 11⅞ | 10⅝ | 8½  | —       | 21¼     | —       | 3          | —       | 13⅝ |
| 121  | 11          | 13¾              | —       | 10   | 10  | 12¾ | 13⅝ | 13  | 10⅜ | —       | 24¼     | —       | 3          | —       | 16⅝ |
| 131  | 12          | 15               | —       | 11   | 11  | 13⅝ | 15⅞ | 14¼ | 11⅜ | —       | 26½     | —       | 3          | —       | 18¾ |
| 151  | 14          | 16¾              | —       | 12   | 12  | 15⅞ | 16¾ | 15⅞ | 12⅝ | —       | 28½     | —       | 3½         | —       | 20¼ |
| 161  | 14¾         | 18½              | —       | 13   | 13  | 16⅝ | 18½ | 17½ | 14  | —       | 30½     | —       | 3½         | —       | 22¼ |
| 181  | 16¼         | 20¼              | 21¼     | 14   | 14  | 18½ | 20½ | 19¾ | 15½ | 34¼     | 34¼     | 37      | 3½         | 4       | 24¾ |
| 201  | 17¾         | 22¼              | 23¼     | 15½  | 15½ | 20¾ | 22½ | 21¾ | 17  | 37      | 37      | 40      | 4          | 4½      | 27  |
| 221  | 19¾         | 24½              | 25½     | 17   | 17  | 22½ | 24⅞ | 23⅝ | 18⅞ | 40⅞     | 40⅞     | 43      | 4          | 4½      | 30⅞ |
| 241  | 21½         | 26¾              | 28      | 19   | 19  | 24¾ | 27¾ | 26  | 20¾ | 44¾     | 44¾     | 47      | 4½         | 5       | 33¼ |
| 271  | 23¾         | 29½              | 30½     | 20½  | 20½ | 27¼ | 30¼ | 28⅝ | 22⅞ | 48½     | 48½     | 50½     | 5          | 5½      | 36½ |
| 301  | —           | —                | 33¾     | 22½† | 33  | 30¾ | 33½ | 31⅞ | 25¾ | —       | —       | 55½     | —          | 6       | 40½ |
| 331  | —           | —                | 37      | 24½† | 36  | 33¾ | 36⅞ | 35  | 28  | —       | —       | 60      | —          | 6½      | 44⅝ |
| 361  | —           | —                | —       | 29†  | 40½ | 36⅞ | 40¾ | 38¾ | 30⅞ | —       | —       | —       | —          | —       | 49¼ |

\* For DB Discharge on Class 1 and 2 fans sizes 101-271, use A dimension for B. + For DB Discharge on Class 1 and 2 fans sizes 301-361, use B dimension for A.

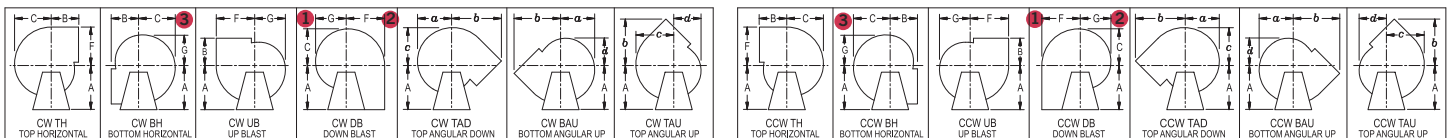
† Use TAD dimension for Class 1 and 2 TAU and BAU discharge fans. ▲ TH, BH, UB, DB, BAU, TAU discharges. D and M are outside dimensions.

| Size | N          |         | R          |         | S          |         | T   | U          |         | a   | b◇  | c   | d   | Base holes |
|------|------------|---------|------------|---------|------------|---------|-----|------------|---------|-----|-----|-----|-----|------------|
|      | Class 1, 2 | Class 3 | Class 1, 2 | Class 3 | Class 1, 2 | Class 3 |     | Class 1, 2 | Class 3 |     |     |     |     |            |
| 101  | 2¼         | —       | 7⅞         | —       | 8¾         | —       | 4⅝  | 6⅝         | —       | 9½  | 13⅝ | 10½ | 7⅝  | ⅑/16       |
| 121  | 2¼         | —       | 9¾         | —       | 10¼        | —       | 5⅞  | 8          | —       | 11⅝ | 16¼ | 12⅞ | 9¼  | ⅑/16       |
| 131  | 2¼         | —       | 10¾        | —       | 11⅝        | —       | 6⅝  | 8¾         | —       | 12¾ | 17⅞ | 14  | 10¼ | ⅑/16       |
| 151  | 2¼         | —       | 11½        | —       | 12¾        | —       | 7½  | 9⅝         | —       | 14⅞ | 19¾ | 15¾ | 11¾ | ⅑/16       |
| 161  | 2¼         | —       | 12½        | —       | 13¾        | —       | 8½  | 10½        | —       | 15½ | 21⅝ | 17¼ | 12½ | ⅑/16       |
| 181  | 2¾         | 4⅞      | 14         | 14⅞     | 15⅞        | 15⅝     | 9⅞  | 11⅝        | 10⅞     | 17¼ | 23⅝ | 19⅞ | 13⅞ | ⅑/16       |
| 201  | 2¾         | 4⅞      | 15⅞        | 15¼     | 16¼        | 16¾     | 10⅞ | 12⅞        | 11¾     | 19  | 26½ | 21⅞ | 15¼ | ⅑/16       |
| 221  | 2¾         | 4⅞      | 16¾        | 16⅞     | 17⅞        | 18¾     | 10⅞ | 13⅞        | 12⅝     | 21  | 28¾ | 23¼ | 16¾ | ⅑/16       |
| 241  | 3¼         | 4⅞      | 18¼        | 18⅞     | 19¾        | 20⅞     | 12¼ | 15½        | 14¾     | 23⅞ | 31⅞ | 25⅝ | 18½ | ¾          |
| 271  | 3¼         | 4⅞      | 20¼        | 20½     | 21½        | 22½     | 13⅝ | 16⅞        | 15½     | 25⅞ | 34¾ | 28¼ | 20⅞ | ¾          |
| 301  | —          | 4¼      | —          | 22½     | —          | 24½     | 14⅞ | —          | 16⅞     | 28¼ | 38¾ | 31¾ | 22⅝ | ¾          |
| 331  | —          | 4¼      | —          | 24⅝     | —          | 26⅝     | 16  | —          | 18¼     | 31⅞ | 42⅞ | 34⅝ | 25¼ | ¾          |
| 361  | —          | —       | —          | —       | —          | —       | 17½ | —          | —       | 34¾ | 45⅞ | 38¼ | 27½ | ⅞          |

◇ For Size 30 and 33, Class 3 fans, dimensions for BAU or TAU discharge are 38½" and 42½", respectively.

Tolerance: ± 1/8"

## FAN DISCHARGES – VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°

Counterclockwise—angular discharges at 45°

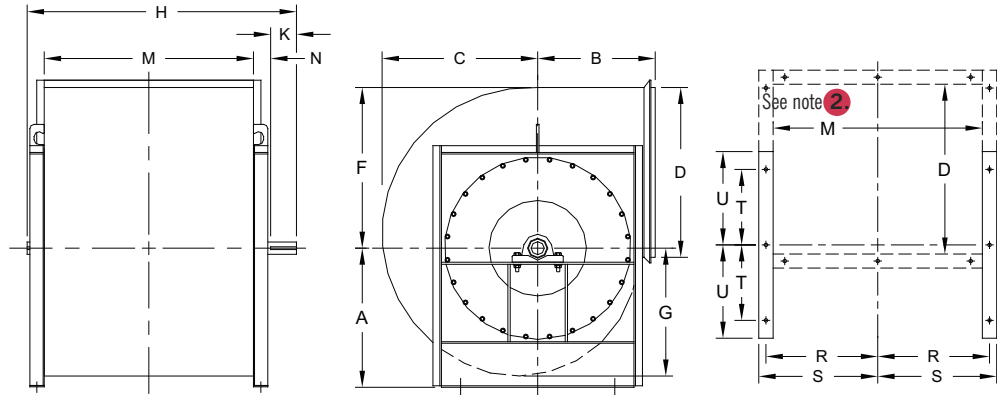
- Discharge is framed at floorline on Class 1 and 2 Down Blast fans.
- Discharge is framed at floorline on Class 3, Sizes 36-73 Down Blast fans. Class 3, Sizes 18-33 Down Blast fans are furnished standard with slip connection above floorline.
- On Class 1 and 2 fans with Bottom Horizontal discharge and optional flanged outlet, the flange extends below the base bars of the fan.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

# DIMENSIONS

## Non-ROTATABLE FANS

Dimensions should not be used for construction unless certified.



DIMENSIONS [INCHES]

| Size | A†         |                  |         |         |         | B   |     | C   | D   | F   | G   | H          |         | K          |         |
|------|------------|------------------|---------|---------|---------|-----|-----|-----|-----|-----|-----|------------|---------|------------|---------|
|      | Class 1, 2 |                  | Class 3 |         |         | ▲   | TAD |     |     |     |     | Class 1, 2 | Class 3 | Class 1, 2 | Class 3 |
|      | TH, TAD    | BH, UB, TAU, BAU | TH, TAD | BH, BAU | UB, TAU |     |     |     |     |     |     |            |         |            |         |
| 301  | 26¼        | 33               | —       | —       | —       | 22½ | 33  | 30¾ | 33½ | 31⅞ | 25¾ | 53         | —       | 5 ½        | —       |
| 331  | 28¾        | 36               | —       | —       | —       | 24½ | 36  | 33¾ | 36⅞ | 35  | 28  | 57½        | —       | 6          | —       |
| 361  | 31¾        | 40               | 33      | 42      | 39      | 29  | 40½ | 36⅞ | 40¾ | 38¾ | 30⅞ | 62¾        | 67¼     | 6½         | 7       |
| 401  | 35         | 44               | 36      | 46      | 43      | 31  | 45¼ | 40¾ | 44⅞ | 42¾ | 34⅞ | 68¼        | 73      | 7          | 7½      |
| 441  | 38½        | 48¼              | 40      | 50      | 47      | 33½ | 49½ | 45  | 49⅝ | 47⅞ | 37¾ | 74½        | 79      | 7½         | 8       |
| 491  | 42½        | 53½              | 43½     | 55      | 51½     | 36  | 54  | 49½ | 54⅝ | 52  | 41½ | 83         | 86      | 8          | 8½      |
| 541  | 47         | 59               | 48      | 60½     | 57      | 40  | 60  | 54⅞ | 60¾ | 57½ | 45⅞ | 90½        | 94½     | 8½         | 9       |
| 601  | 52         | 65¼              | 53      | 66½     | 62½     | 43  | 66  | 60¾ | 66⅞ | 63¾ | 50⅞ | 98½        | 103¼    | 9          | 9½      |
| 661  | 57         | 71½              | 58      | 73      | 69      | 47  | 70¼ | 66¾ | 73½ | 70  | 56  | 107¼       | 111¾    | 9½         | 10      |
| 731  | 63         | 79               | 64      | 80½     | 76      | 51½ | 76½ | 73⅞ | 81¼ | 77½ | 61⅞ | 117        | 123¼    | 10         | 10½     |

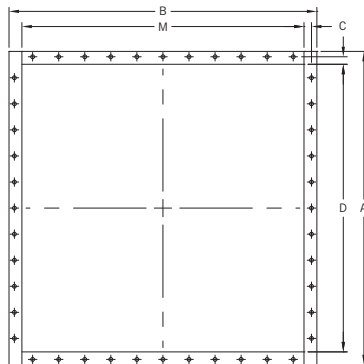
† On DB discharge, use B for A. ▲ TH, BH, UB, DB, BAU, TAU discharges. D and M are outside housing dimensions.

| Size | M   | N          |         | R          |         | S          |         | T   | U          |         | a   | b        |      | c   | d   | Base holes |
|------|-----|------------|---------|------------|---------|------------|---------|-----|------------|---------|-----|----------|------|-----|-----|------------|
|      |     | Class 1, 2 | Class 3 | Class 1, 2 | Class 3 | Class 1, 2 | Class 3 |     | Class 1, 2 | Class 3 |     | BAU, TAU | TAD  |     |     |            |
|      |     | 301        | 40½     | 3¼         | —       | 22⅞        | —       |     | 23½        | —       |     | 14⅞      | 19   |     |     |            |
| 331  | 44⅝ | 3¼         | —       | 24¼        | —       | 25⅝        | —       | 16  | 20⅝        | —       | 31⅞ | 42⅞      | 50¼  | 34⅝ | 25¼ | ¾          |
| 361  | 49¼ | 3¼         | 5⅝      | 26½        | 26⅞     | 27⅞        | 27⅞     | 17½ | 22⅞        | 24½     | 34¾ | 47⅞      | 56   | 38¼ | 27½ | ⅞          |
| 401  | 54⅝ | 3¼         | 5⅝      | 28¾        | 28¾     | 30¼        | 30¼     | 19  | 27½        | 26¼     | 38  | 52⅞      | 62¼  | 42⅞ | 30  | ⅞          |
| 441  | 60  | 3¼         | 5⅝      | 31½        | 31½     | 33         | 33      | 21  | 30         | 28¾     | 42  | 57       | 68¾  | 46½ | 33⅝ | ⅞          |
| 491  | 66⅞ | 4⅞         | 5½      | 34⅝        | 34⅝     | 36⅞        | 36⅞     | 23  | 32½        | 31¼     | 46⅞ | 62¼      | 75   | 51¼ | 36½ | ⅞          |
| 541  | 73⅞ | 4⅞         | 5⅞      | 38⅞        | 38⅞     | 40⅞        | 40⅞     | 25  | 36¼        | 35      | 51⅞ | 69       | 83⅞  | 56¾ | 41  | 1          |
| 601  | 80¾ | 4⅞         | 6¼      | 42¾        | 42¾     | 44¾        | 44¾     | 26½ | 39¾        | 38½     | 56⅝ | 75½      | 91⅝  | 61⅞ | 45¾ | 1          |
| 661  | 88⅞ | 4⅞         | 6¼      | 46½        | 46½     | 47         | 48½     | 29  | 43         | 42¼     | 62¼ | 82¾      | 99⅞  | 69⅞ | 49⅞ | 1          |
| 731  | 98¼ | 4⅞         | 7       | 51⅞        | 51⅞     | 53⅞        | 54⅞     | 33½ | 47         | 46¼     | 68⅞ | 91¼      | 108⅞ | 76¾ | 55⅞ | 1          |

Tolerance: ± 1/8"

## FLANGED OUTLET OPTION

1. Mounted flush with outside edge of housing discharge.
2. Holes furnished on 4" centers from centerlines.
3. M and D dimensions are inside flange, outside housing.
4. Down Blast fans with optional flanged outlet are only offered in Class 3.
5. Tolerance: ± 1/8".

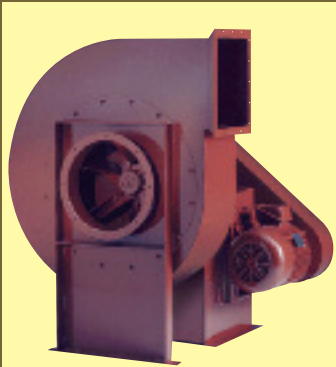


DIMENSIONS [INCHES]

| Size | A   | B    | C   | D   | M   | Hole dia. |
|------|-----|------|-----|-----|-----|-----------|
| 101  | 13⅞ | 15⅝  | 5/8 | 11⅞ | 13⅝ | 5/16      |
| 121  | 15⅝ | 18⅝  | 5/8 | 13⅝ | 16⅝ | 5/16      |
| 131  | 17⅞ | 20¾  | 5/8 | 15⅞ | 18¾ | 5/16      |
| 151  | 18¾ | 22¼  | 5/8 | 16¾ | 20¼ | 5/16      |
| 161  | 21  | 24¾  | 3/4 | 18½ | 22¼ | 7/16      |
| 181  | 23  | 27¼  | 3/4 | 20½ | 24¾ | 7/16      |
| 201  | 25  | 29½  | 3/4 | 22½ | 27  | 7/16      |
| 221  | 27¾ | 32⅝  | 3/4 | 24⅞ | 30⅞ | 7/16      |
| 241  | 30¾ | 36¼  | 7/8 | 27¾ | 33¼ | 7/16      |
| 271  | 33¼ | 39½  | 7/8 | 30¼ | 36½ | 7/16      |
| 301  | 36½ | 43½  | 7/8 | 33½ | 40½ | 7/16      |
| 331  | 39⅞ | 47⅝  | 7/8 | 36⅞ | 44⅝ | 7/16      |
| 361  | 44¾ | 53¼  | 1⅞  | 40¾ | 49¼ | 9/16      |
| 401  | 48⅞ | 58¾  | 1⅞  | 44⅞ | 54¾ | 9/16      |
| 441  | 53⅝ | 64   | 1⅞  | 49⅝ | 60  | 9/16      |
| 491  | 58⅝ | 70⅞  | 1⅞  | 54⅝ | 66⅞ | 9/16      |
| 541  | 64¾ | 77⅞  | 1⅞  | 60¾ | 73⅞ | 9/16      |
| 601  | 70⅞ | 84¾  | 1⅞  | 66⅞ | 80¾ | 9/16      |
| 661  | 77½ | 92⅞  | 1⅞  | 73½ | 88⅞ | 9/16      |
| 731  | 85¼ | 102¼ | 1⅞  | 81¼ | 98¼ | 9/16      |

# COMPLETE SELECTION OF AIR-MOVING EQUIPMENT

The New York Blower Company offers thousands of different types, models, and sizes of air-moving equipment. Contact your nyb representative for assistance in identifying the best fan for your application.



## DUST/MATERIAL HANDLING

Wide range of duty available with unique fan lines capable of handling light dust to heavy material. Typical applications include dust-collection and high-pressure process along with material-conveying.



## AIR-HANDLING [CENTRIFUGAL]

Designed for clean to moderately dirty gas streams. Commercial and industrial HVAC, process cooling, light material-conveying, heat removal, and dryer exhaust are just a few of the numerous sample applications



## AIR-HANDLING [AXIAL]

For the ideal handling of clean to moderately dirty airstreams. Commercial and industrial HVAC, drying and cooling systems, fume extraction, and process-heat removal are typical applications.



## FIBERGLASS REINFORCED PLASTIC [FRP]

Choice of performance and duty for corrosive gas streams. Applications include chemical process, wastewater treatment, laboratory hood exhaust, and tank aeration.

## CUSTOM PRODUCTS

Designed for unique applications. Variety of configurations, temperatures, flows, and pressures. Wide range of modifications and accessories are available to meet the most demanding specifications.



# Leading the industry forward since 1889



## ROOF VENTILATORS

Including both hooded and upblast ventilators, propeller fans, and centrifugal roof exhausters. These units are ideal for industrial, commercial, and institutional applications.



## HEATING PRODUCTS

Industrial-duty steam unit heaters with steam heating coils are available for facility heating and process-heat transfer.



## PROCESS/FAN COMPONENTS

Plug fans, plenum fans, wheels, inlet cones, and housings for a wide variety of OEM applications. Process/fan components are used in air-handling units, ovens, dryers, freezer tunnels, and filtration systems.