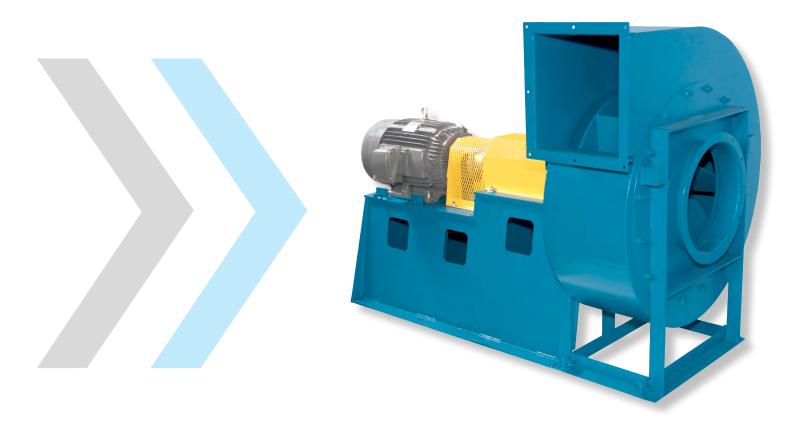


INDUSTRIAL PROCESS AND

INDUSTRIAL FANS

RBO | RBR | RBA | RBW | RBP



INDUSTRIAL FANS





Twin City Fan & Blower certifies that the Series 900 Model RBO/RBR/RBA/RBW 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.

Models - Class 22 & 32

RBO I RBR I RBA I RBW I RBP

The Series 900 Industrial Fans manufactured by Twin City Fan & Blower are well suited for installations involving exhaust, material conveying, pollution control, air circulation, and a variety of other industrial applications.

The typical performance characteristics for different impellers offered in Series 900 fans are illustrated on page 3. It should be noted that all impellers essentially have overloading characteristic type brake horsepower curves; however, type RBA impellers have this to a lesser degree than other types.

While the general pressure characteristic curve is similar for all Series 900 impellers, the RBA type impeller is considerably more efficient than other Series 900 impellers. Therefore, the RBA impeller is the first choice where brake horsepower savings are important, but the RBA impeller is limited to handling relatively clean air or gases.

Efficiency is critical in most applications, and it is important that the fan size is selected so that it will operate at or near its maximum efficiency point. This is particularly important with the units that have lower efficiency in general, such as the RBO and RBW impellers.

Twin City Fan & Blower offers a complete series of impellers to meet the needs of most industrial process and material handling applications. Each impeller is statically and dynamically balanced on electronic equipment prior to being assembled in the fan. In addition, each unit is run at or near operating speed after assembly and the balance is fine-tuned as a complete assembly.

RB Series Availability

| SIZE | IMPELLER TYPE | ROTATABLE HOUSING DISCHARGE | REVERSIBLE ROTATION | CLASS 22 ARRANGEMENTS | CLASS 32 ARRANGEMENTS |
|---------|------------------------|--------------------------------|------------------------|---|------------------------------------|
| 905 | RBO | YES | YES | 1,8,9A,9B,10 | _ |
| 907-909 | RBO RBA, RBW | YES YES | YES NO | 1,4,8,9A,9B,9F,10 1,4,8,9A,9B,9F,10 | _ |
| 911-921 | RBO RBA, RBW RBP | YES YES YES | YES NO NO | 1,4,8,9A,9B,9F,10 1,4,8,9A,9B,9F,10 — | 1,4,8,9,9F 1,4,8,9,9F 1,9,9F |
| 923-926 | RBO*, RBA, RBW RBP | NO NO | NO NO | 1,8,9A,9B,9F,10 — | 1,8,9,9F 1,9,9F |
| 929 | RBO*, RBA, RBW | NO | NO | 1,8,9A,9B,9F | 1,8,9,9F |
| 933-949 | RBO*, RBA, RBW | NO | NO | 1,8,9,9F | 1,8,9,9F |
| 954-960 | RBO, RBA, RBW | NO | NO | 1,8,9,9F | _ |

* Note: RBR is standard on size 926 and larger Class 32 fans.

Series 900 fan housings are constructed in all usual arrangements and conform to AMCA Standard 2404-72 (Drive Arrangements for Centrifugal Fans). The fan sizes and impeller diameters conform to AMCA Standard 2402-66 (Sizes for Industrial Centrifugal Fans).

AMCA does not have a standard for industrial fans designating class of operation. Twin City Fan & Blower offers three basic categories, based on performance, of industrial

fans. Two of the categories are shown in this catalogue:

- Class 22 suitable for applications involving performance to approximately 5470 Pa; and
- 2. Class 32 for performance to 7950 Pa.

A separate supplemental catalogue (Catalogue 911) shows the third category: Class 45 – high pressure fans capable of reaching performance of approximately 11190 Pa.

IMPELLER TYPES

RBO Industrial Radial Paddle Impeller: The open type radial paddle impeller design is extremely rugged using heavy-gauge steel components which are jig assembled for accuracy and consistency. All impellers are welded with care to insure the maximum in strength and reliability. RBO impellers are suitable for general handling of coarse, sticky, heavy, and/or abrasive materials.

RBR Industrial Radial Paddle Impeller: The RBR impeller is similar to the RBO, with the addition of end rings. RBR construction is standard on size 926 and larger Class 32 fans. RBR impellers are suitable for general handling of coarse, sticky, heavy, and/or abrasive materials.

RBW Industrial Radial Backplate Wool Impeller: The RBW impeller is constructed to prevent paper shreddings, threads from buffing system exhaust, and other similar matter from hanging up on and wrapping around the spiders and blades. Applications include long, stringy or fibrous materials.

RBA Industrial Radial Air Handling Impeller: The RBA impeller is a more efficient type of impeller and is used when handling relatively clean air, fumes, vapor exhaust, and air with a light contaminant. The impeller is constructed with heavy-gauge blades welded to both backplate and front ring.

RBP Industrial Radial Paper Handling Impeller: This modified RBW impeller features trapezoidal gussets for the extra rugged construction necessary when handling corrugated paper trims, fibrous material, metal trim, and other high impact loading material. A paper deflector cone over the face of the hub helps prevent wrapping of paper around the hub or leading edge of the blades.

All RBP fans are supplied with bearing stop blocks and a relieved inlet transition. The relieved inlet transition smooths the flow of paper trim and similar material through the fan. Breaker tabs are offered as an option on the relieved inlet transition to assist in the breakup of material. Due to the nature of the applications, RBP Class 32 construction is limited to 5470 Pa and RBP Class 45 construction is limited to 7950 Pa. Use RBW performance curves for RBP fans. The RBP fan is not AMCA licensed.



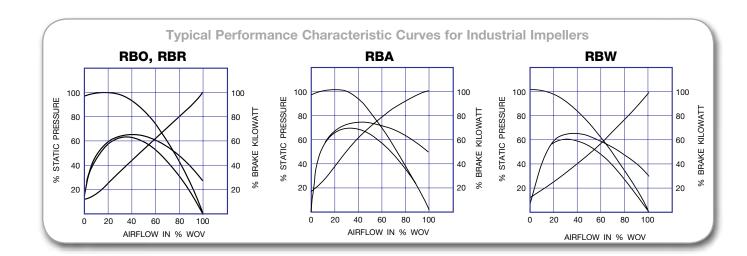






Rotatable and Reversible Configuration

The table on page 2 identifies fans that are rotatable or reversible. A fan available in a rotatable configuration indicates that the fan can be rotated in the field to any of the standard discharge locations. A fan available in a reversible configuration indicates that the impeller rotation can be changed in the field from a clockwise to a counterclockwise direction or vice versa. This is possible only on rotatable housings and requires the impeller housing to be removed and reversed. Consult the factory before reversing a fan. See the chart on page 5 for specific configurations and their designations.



ARRANGEMENTS











Arrangement 1

Arrangement 1 fans are available in either direct drive (see Arrangement 8 below), or belt driven installations. The belt driven configuration allows the motor to be mounted in any of the four standard motor positions shown on page 5. The choice of a belt driven installation provides greater performance flexibility with the use of belts and sheaves of differing sizes.

Arrangement 8

Arrangement 8 fans use a fan shaft and motor direct coupled via a flexible coupling. The integral motor subbase is fabricated of heavy gauge steel and securely reinforced for rigidity. Twin City Fan & Blower can supply impellers in a variety of diameters and differing widths to give the greatest efficiency for any given application. If desired, an Arrangement 1 fan can be set up for direct drive. This requires a concrete motor pedestal to be built in the field.

Arrangement 9

Arrangement 9 fans include a motor slide base mounted on the side of the motor pedestal. The motor and drive can be installed at the factory or field installed. Class 22 fans up to size 929 are offered in Arrangements 9A (shorter pedestal for small motors) and 9B (longer pedestals for larger motors). Maximum motor frame sizes for Arrangement 9A and 9B are listed in the table on page 5.

Unless otherwise specified, the motor will be installed on the left (L) side of the pedestal on CW fans and on the right (R) side on CCW fans.

Arrangement 9F

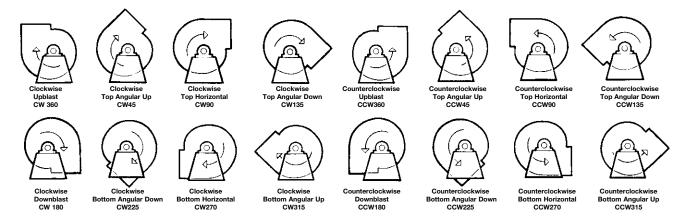
Arrangement 9F (floor mount) fans are recommended when a packaged unit is desired, but required motors are too large to be mounted on the side of the bearing pedestal. In this arrangement, the base is extended to facilitate motor mounting in a horizontal position similar to an Arrangement 1 fan. This arrangement is preferred over Arrangement 9 when larger kilowatt motors are being employed.

Unless otherwise specified, the motor will be installed on the left (L) side of the pedestal on CW fans and on the right (R) side on CCW fans. Arrangement 9F requires a separate subbase when vibration isolation is required.

Arrangement 10

Arrangement 10 fans are suitable for roof or outdoor installations. A weather cover, as shown, provides complete weather protection for motor, shaft, bearings, and drives. This arrangement is limited to Class 22, sizes 905 through 919. Maximum motor sizes allowable in this arrangement are listed in the table on page 5. Larger fan sizes in this arrangement, or larger motor sizes for smaller fans, may be available on special request from the factory. All usual accessories are available in this arrangement.

Designations for Rotation and Discharge



Direction of rotation is determined from the drive side of the fan.

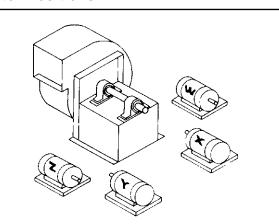
On single inlet fans, the drive side is always considered the side opposite the fan inlet.

Direction of discharge is determined in accordance with the diagrams shown above. Angle of discharge references the horizontal axis of the fan, and is designated in degrees above or below that reference axis. On fans inverted for ceiling suspension or side-wall mounting, the direction of rotation and discharge is determined when the fan is resting on the floor.

Maximum Motor Frame Size

| SIZE | | | CLASS 2 | 2 | | CLAS | SS 32 | |
|------|------|------|---------|------|--------|-------------|-------|--|
| SIZE | 9A | 9B | 9 | 9F | 10 | 9 | 9F | |
| 905 | l – | _ | _ | | 90L | _ | _ | |
| 907 | 112M | 132M | _ | 132M | 112M | _ | _ | |
| 909 | 112M | 160L | | 160L | 132M | 1 | _ | |
| 911 | 132M | 160L | _ | 180M | 160L | 160L | 180L | |
| 913 | 132M | 180L | _ | 200M | 160L | 180L | 200L | |
| 915 | 160L | 180L | _ | 200M | 180L | 180L | 200L | |
| 917 | 160L | 200L | _ | 200L | 180L | 200L | 225M | |
| 919 | 180L | 225M | | 225M | 200L | 200L 225M 2 | | |
| 921 | 200L | 225M | _ | 225M | 225M — | | 250M | |
| 923 | 200L | 225M | _ | 225M | _ | 225M | 280M | |
| 926 | 225M | 250M | | 250M | _ | 250M | 280M | |
| 929 | 225M | 250M | _ | 280S | _ | 250M | 280M | |
| 933 | _ | _ | 250M | 280M | _ | 250M | 280M | |
| 937 | _ | _ | 250M | 280M | _ | 250M | 280M | |
| 941 | _ | _ | 250M | 280M | _ | 250M | 280M | |
| 945 | | | 250M | 280M | | 250M | 280M | |
| 949 | - | _ | 250M | 280M | _ | 250M | 280M | |
| 954 | | _ | 250M | 280M | _ | _ | | |
| 960 | | | 250M | 280M | _ | _ | _ | |

Motor Positions



The drawing above illustrates motor position standards for Arrangement 1 fans. The location of the motor is determined by facing the drive side of the fan and designating the motor position by letters W, X, Y, or Z.

ACCESSORIES



Quick-Open Access Door

Bolted Access Door

Raised Bolted Access Door





Outlet Dampers

Inlet Bell



External Inlet Vanes



Access Doors

Bolted and quick-opening access doors are available for easy access to the fan interior for inspection or cleaning. All access doors are gasketed and are constructed with either evenly-spaced studs or heavy duty hinges and handle-type nuts which require no tools to open. Raised bolted access doors are available for use where insulation is being applied to the outside of the fan.

Inlet Bell

On installations with an open inlet (no ductwork at the inlet of the fan), a streamlining inlet bell is required to achieve the catalogue performance.

Outlet Dampers

Due to the performance characteristics of industrial fans, a damper on the outlet of the fan is a very efficient way to control volume.

An outlet damper can be used to reduce the power consumption of a fan operating at high temperatures or a fan operating in low density gas streams. During a cold startup, the outlet damper begins in a closed position and is opened gradually as the fan reaches operating temperature. This allows for the use of a smaller motor sufficient to handle the duty at higher temperatures.

Twin City Fan & Blower offers two basic styles of outlet dampers: Type 1 is made of single surface blades suitable for clean air applications, pressures to 620 Pa and temperatures to 148°C; Type 2 has double surface airfoil blades for abrasive type applications, pressures to 995 Pa and temperatures to 426°C. Both types of dampers are available with opposed or parallel blades and can be manually operated or set up for automatic operation.

Inlet Vanes

For reduced flow situations with relatively clean air, inlet vane type dampers are available to maintain fan efficiency. The inlet vanes are external type attached to the inlet of the fan. Standard construction inlet vanes are suitable in applications up to 148°C. High temperature inlet vanes are also available for temperatures up to 315°C.

ACCESSORIES

Inlet Boxes

An inlet box is designed to minimize pressure drop and airflow losses. Inlet boxes are recommended for applications where uniform flow is difficult to obtain due to limited space or where the air must enter the fan at an angle. Inlet boxes can be either detachable or integral to the fan. This option is available with an inlet box damper to provide increased airflow control.

Drains

A pipe coupling can be welded to the lowest point in the housing scroll to allow wash water or condensation to drain.

Shaft Coolers

Where high temperatures are encountered, the aluminum shaft cooler is recommended for dissipating heat and protecting bearings from the high temperature atmosphere.

Shaft Seals

The standard shaft seal is a non-asbestos type, sand-wiched between two plates and the fan housing, providing a seal for most materials being handled. A variety of special seals, including mechanical type stuffing boxes, is available for gas-tight applications requiring more positive protection.

Spark Resistant Construction

Three fan constructions are available for spark resistance. The materials used in the construction of these fans minimize the potential of sparks being generated by striking or rubbing components within the airstream.

- Type A All parts of the fan in contact with the air or gas being handled are made of nonferrous material. (Aluminum impeller construction is limited to 120°C.)
- Type B The fan has an entirely nonferrous impeller and nonferrous ring around the opening through which the shaft passes. (Aluminum impeller construction is limited to 120°C.)
- Type C The fan is constructed so that a shift of the impeller or shaft will not permit two ferrous parts of the fan to rub or strike. In applications where aluminum is not suitable, impellers constructed of Monel can be furnished for temperatures up to 538°C.

Notes: 1. The user must electrically ground the fan.

- 2. Standard spark resistant alloy is aluminum.
- Bearings must not be placed in the air or gas stream.





Inlet Box

Drain



Shaft Seal & Saft Cooler

Other Accessories

A large number of other appurtenances and accessories is available from Twin City Fan & Blower, including:

- Belt guards standard and OSHA type
- Split housings
- Shaft and bearing guards
- · Couplings and coupling guards
- Impeller liners
- Scroll liners
- Weather covers
- Inlet and outlet screen
- Special material construction (stainless steel, Monel, etc.)
- Special coatings and finishes
- Insulation pins
- Abrasion resistant construction
- · Common bases with and without isolation
- Breaker tabs are offered on Series 900 RBP fans as an option on the relieved inlet transition. These tabs assist in the breakup of material as it enters the fan.

High Temperature Construction Requirements

| TEMPERATURE (°C) | TYPE OF BEARING | LUBRICATION | OTHER REQUIREMENTS | AVAILABLE ARRANGEMENTS | | | | |
|------------------|--------------------|----------------------|--|---|--|--|--|--|
| –29° to 149° | Ball or Roller | Grease | Arr. 1, 4, 8, 9 & 10; Arr. 4 limited to 82°C | | | | | |
| 149° to 260° | Ball or Roller | High Temp. Grease | Shaft Cooler, Shaft Seal Expansion & Non-Expansion Bearings | Arr. 1, 8, 9 and 10* | | | | |
| 260° to 427° | Ball or Roller | High Temp. Grease | High Temp. Aluminum Paint, Shaft Cooler, Shaft Seal, Expansion and Non-Expansion Bearings | Arr. 1, 8, 9 & 10*; (Arr. 9 & 10 limited to 316°C unless fan is insulated.) | | | | |
| 427° to 538° | Ball or Roller | High Temp. Grease | Consult Factory | | | | | |

^{*}Arrangement 10 includes insulated pedestal

Derating Factors for High Temperature

| | DERATING FACTOR | | | | | | | | | |
|---------------|----------------------|--------------------------|--------------------|-----------|--|--|--|--|--|--|
| TEMP. (°C) | RBO (22, 32 RBW (| 2); RBA (22); 22, 32) | RBA (32); RBP (32) | | | | | | | |
| | STD STEEL | STAINLESS | 50 KSI | STAINLESS | | | | | | |
| 21 | 1.000 | 0.970 | 1.000 | 0.786 | | | | | | |
| 93 | 0.990 | 0.890 | 0.990 | 0.747 | | | | | | |
| 149 | 0.975 | 0.840 | 0.975 | 0.720 | | | | | | |
| 204 | 0.955 | 0.810 | 0.957 | 0.690 | | | | | | |
| 260 | 0.930 | 0.770 | 0.931 | 0.661 | | | | | | |
| 316 | 0.900 | 0.760 | 0.904 | 0.636 | | | | | | |
| 371 | 0.800 | 0.740 | 0.880 | 0.611 | | | | | | |
| 427 | 0.600 | 0.720 | 0.837 | 0.593 | | | | | | |
| 482 | _ | 0.710 | | 0.576 | | | | | | |
| 538 | _ | 0.680 | | 0.550 | | | | | | |

When elevated temperatures are encountered, maximum RPM allowable as shown below must be derated according to the values given in the table. Standard steel construction is suitable for use in gas temperatures up to 426°C. Aluminum impellers are suitable for temperatures up to 120°C only. For higher maximum RPM or elevated temperatures consult factory.

Maximum RPM, Impeller Weights, & WR² (Moment of Inertia)

| | | IV | ODEL F | RBO/RB | R | | | | MODE | L RBW | | | | | MODE | L RBA | | |
|------|-------|-------|--------|----------------|-------|-------|-------|-------|-------|----------------|-------|-------|----------|-------|---------|----------------|-------|-------|
| FAN | IMPE | LLER | W | R ² | MA | AX. | IMPE | LLER | W | R ² | MA | AX. | IMPE | LLER | W | R ² | M. | AX. |
| SIZE | WT. | (kg) | (kg- | ·m²) | RF | PM | WT. | (kg) | (kg- | -m²) | RF | M | WT. (kg) | | (kg-m²) | | RPM | |
| | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 | CL 22 | CL 32 |
| 905 | 3.6 | | 0.02 | _ | 5500 | - | | | | _ | _ | | _ | _ | | | _ | _ |
| 907 | 6.0 | _ | 0.06 | _ | 5296 | — | 8.2 | _ | 0.10 | _ | 5457 | _ | 6.4 | _ | 0.08 | — | 5273 | _ |
| 909 | 7.5 | _ | 0.10 | _ | 4156 | _ | 13.6 | _ | 0.26 | _ | 4192 | _ | 11.8 | _ | 0.29 | _ | 4134 | _ |
| 911 | 19.9 | 20 | 0.37 | 0.37 | 3283 | 3844 | 29.0 | 31.3 | 0.88 | 0.92 | 3495 | 4016 | 20.9 | 22.7 | 0.71 | 0.71 | 3373 | 4000 |
| 913 | 23.4 | 23 | 0.58 | 0.58 | 2822 | 3378 | 39.5 | 42.2 | 1.64 | 1.76 | 2922 | 3373 | 30.8 | 31.8 | 1.43 | 1.43 | 2812 | 3337 |
| 915 | 37.0 | 48 | 1.35 | 1.61 | 2485 | 2923 | 61.2 | 66.2 | 3.40 | 3.70 | 2531 | 2921 | 47.2 | 48.5 | 2.94 | 2.98 | 2521 | 2910 |
| 917 | 56.7 | 57 | 2.63 | 2.64 | 2191 | 2577 | 78.5 | 85.3 | 5.59 | 6.05 | 2232 | 2576 | 49.9 | 69.9 | 4.03 | 5.5 | 2147 | 2566 |
| 919 | 70.3 | 75 | 4.03 | 4.17 | 1951 | 2315 | 103 | 111 | 9.07 | 9.79 | 2004 | 2313 | 75.3 | 87 | 7.48 | 8.48 | 1928 | 2304 |
| 921 | 91.6 | 92 | 7.01 | 7.01 | 1778 | 2092 | 138 | 150 | 14.9 | 16.2 | 1791 | 2091 | 102 | 115 | 12.2 | 13.7 | 1733 | 2083 |
| 923 | 101 | 116 | 9.03 | 9.74 | 1623 | 1910 | 170 | 184 | 22.1 | 23.9 | 1635 | 1912 | 122 | 153 | 17.6 | 22.3 | 1581 | 1905 |
| 926 | 121 | 194 | 19.4 | 31.1 | 1439 | 1693 | 209 | 227 | 34.5 | 37.5 | 1449 | 1696 | 155 | 197 | 28.6 | 36.8 | 1402 | 1689 |
| 929 | 151 | 250 | 30.2 | 50.2 | 1286 | 1513 | 266 | 289 | 54.9 | 59.7 | 1295 | 1515 | 220 | 246 | 50.4 | 57.4 | 1253 | 1509 |
| 933 | 231 | 356 | 60.2 | 92.7 | 1129 | 1329 | 454 | 493 | 122 | 132 | 1137 | 1330 | 323 | 385 | 95.8 | 115 | 1100 | 1325 |
| 937 | 281 | 446 | 91.8 | 146 | 1009 | 1187 | 568 | 618 | 191 | 208 | 1015 | 1188 | 436 | 481 | 162 | 181 | 983 | 1184 |
| 941 | 361 | 551 | 144 | 220 | 911 | 1072 | 701 | 757 | 288 | 313 | 917 | 1024 | 534 | 598 | 243 | 275 | 888 | 1070 |
| 945 | 550 | 778 | 265 | 375 | 837 | 976 | 836 | 911 | 415 | 452 | 835 | 978 | 816 | 742 | 458 | 410 | 809 | 974 |
| 949 | 643 | 929 | 368 | 531 | 757 | 896 | 1014 | 1103 | 597 | 650 | 767 | 900 | 959 | 994 | 627 | 654 | 743 | 894 |
| 954 | 1249 | | | 865 | | 692 | | 1218 | | 868 | _ | 696 | <u> </u> | 1170 | _ | 924 | _ | 674 |
| 960 | 1522 | _ | | 1303 | _ | 622 | _ | 1534 | _ | 1351 | _ | 627 | — | 1570 | _ | 1530 | _ | 607 |

Bare Fan Weights (lb)

| F. 11 | ARRANGEMENTS | | | | | | | | | | | | | |
|-------|--------------|-----|------|----------|--------|------|------|------|------|-------|-------|--|--|--|
| FAN | | | | CLASS 22 | | | | | CLAS | SS 32 | | | | |
| SIZE | 1 | 4 | 8 | 9 | 9A, 9B | 9F | 10 | 1 | 4 | 8 | 9, 9F | | | |
| 905 | 45 | _ | 59 | _ | 49 | _ | 49 | _ | _ | _ | _ | | | |
| 907 | 60 | 57 | 78 | _ | 83 | 83 | 83 | _ | _ | _ | _ | | | |
| 909 | 79 | 75 | 103 | _ | 111 | 111 | 111 | _ | _ | _ | _ | | | |
| 911 | 151 | 143 | 196 | _ | 192 | 192 | 192 | 172 | 163 | 224 | 223 | | | |
| 913 | 191 | 181 | 248 | _ | 239 | 239 | 239 | 227 | 216 | 295 | 298 | | | |
| 915 | 278 | 264 | 361 | _ | 323 | 323 | 323 | 325 | 308 | 422 | 381 | | | |
| 917 | 339 | 322 | 440 | _ | 390 | 390 | 390 | 397 | 377 | 517 | 460 | | | |
| 919 | 428 | 406 | 556 | _ | 493 | 493 | 493 | 501 | 476 | 651 | 596 | | | |
| 921 | 738 | 701 | 959 | _ | 792 | 792 | 792 | 788 | 748 | 1024 | 887 | | | |
| 923 | 887 | _ | 1153 | _ | 947 | 947 | 947 | 1031 | _ | 1340 | 1168 | | | |
| 926 | 1114 | _ | 1448 | _ | 1183 | 1183 | 1183 | 1258 | _ | 1635 | 1396 | | | |
| 929 | 1353 | _ | 1759 | _ | 1425 | 1425 | 1425 | 1634 | _ | 2124 | 1797 | | | |
| 933 | 1558 | _ | 2026 | 1593 | _ | 1593 | _ | 1876 | _ | 2439 | 1986 | | | |
| 937 | 1965 | _ | 2555 | 2013 | — | 2013 | l — | 2367 | – | 3078 | 2490 | | | |
| 941 | 2496 | _ | 3245 | 2640 | _ | 2640 | _ | 2871 | _ | 3733 | 3045 | | | |
| 945 | 3065 | _ | 3985 | 3215 | _ | 3215 | _ | 3527 | _ | 4585 | 3704 | | | |
| 949 | 4051 | _ | 5267 | 4369 | _ | 4369 | _ | 4164 | _ | 5413 | 4355 | | | |
| 954 | 5368 | _ | _ | 5746 | _ | 5746 | _ | _ | _ | _ | _ | | | |
| 960 | 6545 | | | 6974 | _ | 6974 | _ | _ | _ | _ | _ | | | |

NOTE: Weights are less motor, drives and accessories

Material Specifications

| FAN | | IOUSING | | | IOUSING | | RBC | | IMPELL TE 2) | ER. | | V IMPEL NOTE 2 | | | RBA IMPELLER (NOTE 2) | | | | SHAFT DIAMTR | | BRG. CODE (NOTE 1) | |
|------|-------|----------------|--------|-------|----------------|--------|----------------|-------|-----------------|-------|---------------|-------------------|----------------|---------------|--------------------------|----------------|----------------|----------|-----------------|----------|--------------------------|--|
| SIZE | Sides | Side Plates | Scroll | Sides | Side Plates | Scroll | CL 22 Blade | R Rim | CL 32 Blade | R Rim | Back Plate | CL 22 Blade | CL 32 Blade | Back Plate | Impeller Cone | CL 22 Blade | CL 32 Blade | CL 22 | CL 32 | CL 22 | CL 32 | |
| 905 | 2.5 | 3 | 2.5 | - | | _ | 3 | _ | _ | _ | _ | _ | _ | - | _ | _ | _ | 25 | _ | HDB | _ | |
| 907 | 2.5 | 3 | 2.5 | — | - | _ | 3 | _ | _ | _ | 6 | 5 | _ | 5 | 3 | 2.5 | _ | 35 | _ | HDB | _ | |
| 909 | 2.5 | 3 | 2.5 | | _ | _ | 3 | | _ | _ | 6 | 5 | | 5 | 3 | 3 | _ | 35 | _ | HDB | _ | |
| 911 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | _ | 5 | _ | 6 | 6 | 6 | 6 | 3 | 5 | 5 | 40 | 50 | HDB | RB | |
| 913 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | _ | 6 | _ | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 40 | 50 | HDB | RB | |
| 915 | 3 | 3 | 3 | 5 | 5 | 5 | 6 | | 6 | _ | 8 | 8 | 8 | 8 | 5 | 5 | 5 | 55 | 60 | HDB | RB | |
| 917 | 3 | 3 | 3 | 5 | 5 | 5 | 6 | _ | 6 | _ | 8 | 8 | 8 | 8 | 5 | 5 | 6 | 55 | 60 | HDB | RB | |
| 919 | 3 | 3 | 3 | 5 | 5 | 5 | 8 | _ | 8 | _ | 8 | 8 | 8 | 8 | 5 | 5 | 6 | 55 | 75 | RB | RB | |
| 921 | 3 | 5 | 3 | 5 | 5 | 5 | 8 | | 8 | _ | 10 | 10 | 10 | 10 | 5 | 5 | 6 | 60 | 75 | RB | RB | |
| 923 | 5 | 5 | 5 | 6 | 6 | 5 | 8 | _ | 8 | _ | 10 | 10 | 10 | 10 | 5 | 5 | 8 | 60 | 90 | RB | RB | |
| 926 | 5 | 5 | 5 | 6 | 6 | 6 | 8 | _ | 8 | 6 | 10 | 10 | 10 | 10 | 5 | 5 | 8 | 75 | 90 | RB | RB | |
| 929 | 5 | 5 | 5 | 6 | 6 | 6 | 8 | | 8 | 6 | 10 | 10 | 10 | 10 | 5 | 6 | 8 | 90 | 100 | RB | RB | |
| 933 | 5 | 6 | 5 | 6 | 6 | 6 | 10 | _ | 10 | 6 | 12 | 12 | 12 | 12 | 5 | 6 | 8 | 90 | 100 | RB | RB | |
| 937 | 6 | 6 | 5 | 6 | 6 | 6 | 10 | _ | 10 | 6 | 12 | 12 | 12 | 12 | 5 | 8 | 10 | 90 | 125 | RB | SRB | |
| 941 | 6 | 6 | 5 | 6 | 6 | 6 | 10 | | 10 | 6 | 12 | 12 | 12 | 12 | 5 | 8 | 10 | 100 | 125 | | SRB | |
| 945 | 6 | 6 | 5 | 6 | 6 | 6 | 12 | _ | 12 | 6 | 12 | 12 | _ | 16 | 6 | 10 | 10 | 100 | 125 | | SRB | |
| 949 | 6 | 6 | 6 | 6 | 6 | 6 | 12 | _ | 12 | 6 | 12 | 12 | - | 16 | 6 | 10 | 10 | 115 | 140 | SRB | SRB | |
| 954 | 8 | 8 | 8 | | | | 20 | | | _ | 12 | 12 | _ | 16 | 6 | 10 | _ | 140 | _ | SRB | _ | |
| 960 | 8 | 8 | 8 | _ | _ | | 20 | _ | _ | _ | 12 | 12 | _ | 20 | 6 | 10 | _ | 150 | _ | SRB | _ | |

NOTES:

Dimensions are in mm unless otherwise noted.

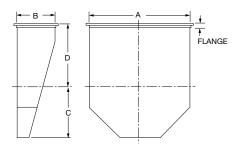
1. BEARINGS CODES:

SDB — Standard-Duty Ball such as Dodge SCAH
HDB — Heavy-Duty Ball such as Dodge SCMAH or Sealmaster MP Series
RB — Roller Bearing such as Dodge S2000 or SKF SYR Series
SRB — Split Roller Ball such as SKF SAF225 or Linkbelt PLB6800 Series

- 2. Gauges listed are for standard steel impeller; steel alloy will vary with size and class.
- 3. Bearing selection is made on the basis of L-10 bearing life to be in no case less than 40,000 hours minimum or L-50 life of 200,000 hours.

www.tcf.com

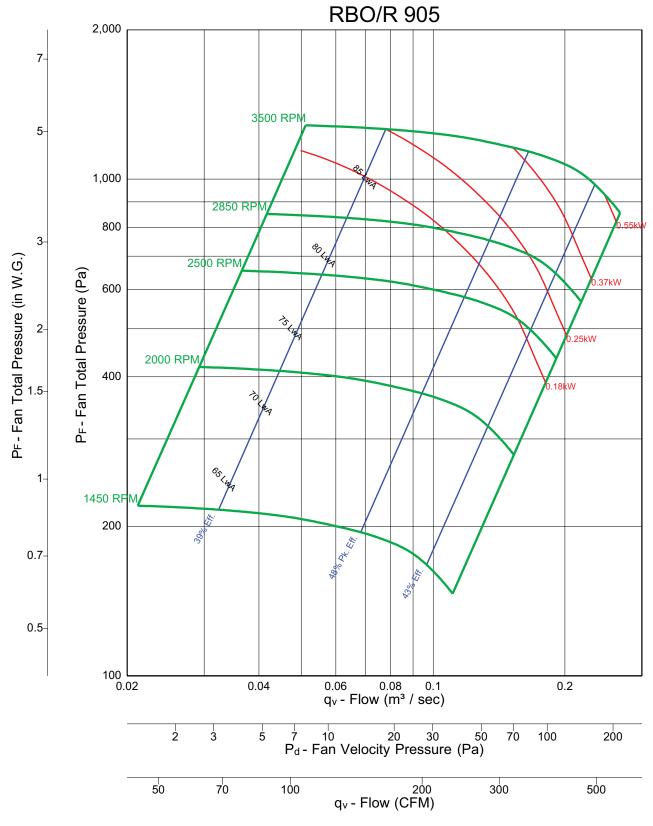
Typical Inlet Box Dimensions



| E411 | | | C | ; | | | INLET | |
|-------------|------|-----|-------|-------|-----|-----|--------------|---------|
| FAN SIZE | Α | В | CL 22 | CL 32 | D | E | AREA (M²) | F |
| 907 | 324 | 105 | 41 | _ | 203 | 305 | 0.03 | 38 x 38 |
| 909 | 416 | 137 | 41 | _ | 229 | 330 | 0.06 | 38 x 38 |
| 911 | 505 | 165 | 54 | 56 | 254 | 356 | 0.08 | 38 x 38 |
| 913 | 597 | 197 | 54 | 56 | 279 | 381 | 0.12 | 38 x 38 |
| 915 | 686 | 222 | 67 | 68 | 305 | 406 | 0.15 | 38 x 38 |
| 917 | 772 | 251 | 67 | 68 | 330 | 432 | 0.19 | 38 x 38 |
| 919 | 867 | 283 | 67 | 68 | 356 | 457 | 0.25 | 51 x 51 |
| 921 | 959 | 311 | 80 | 81 | 381 | 483 | 0.3 | 51 x 51 |
| 923 | 1051 | 340 | 81 | 83 | 406 | 508 | 0.36 | 51 x 51 |
| 926 | 1181 | 384 | 81 | 83 | 445 | 546 | 0.45 | 64 x 64 |
| 929 | 1321 | 429 | 81 | 83 | 483 | 584 | 0.57 | 64 x 64 |
| 933 | 1499 | 486 | 106 | 108 | 533 | 635 | 0.73 | 64 x 64 |
| 937 | 1689 | 546 | 108 | 108 | 584 | 686 | 0.92 | 64 x 64 |
| 941 | 1867 | 607 | 133 | 133 | 635 | 737 | 1.13 | 64 x 64 |
| 945 | 2048 | 673 | 159 | 159 | 686 | 787 | 1.38 | 64 x 64 |
| 949 | 2226 | 730 | 159 | 159 | 737 | 838 | 1.63 | 89 x 89 |
| 954 | 2457 | 806 | 160 | — | 813 | 914 | 1.98 | 89 x 89 |
| 960 | 2727 | 895 | 160 | | 889 | 991 | 2.44 | 89 x 89 |

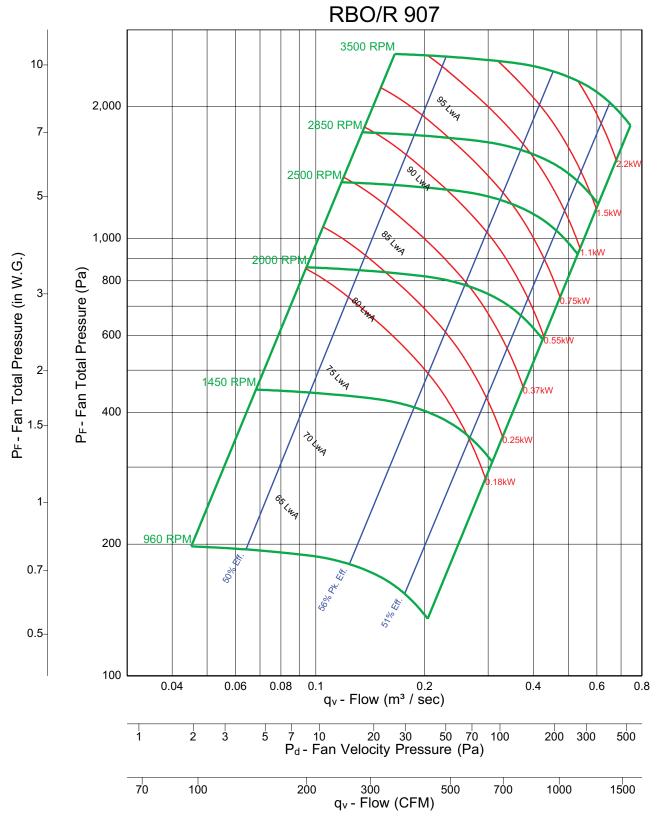
Dimensions are in millimeters unless otherwise noted.







- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





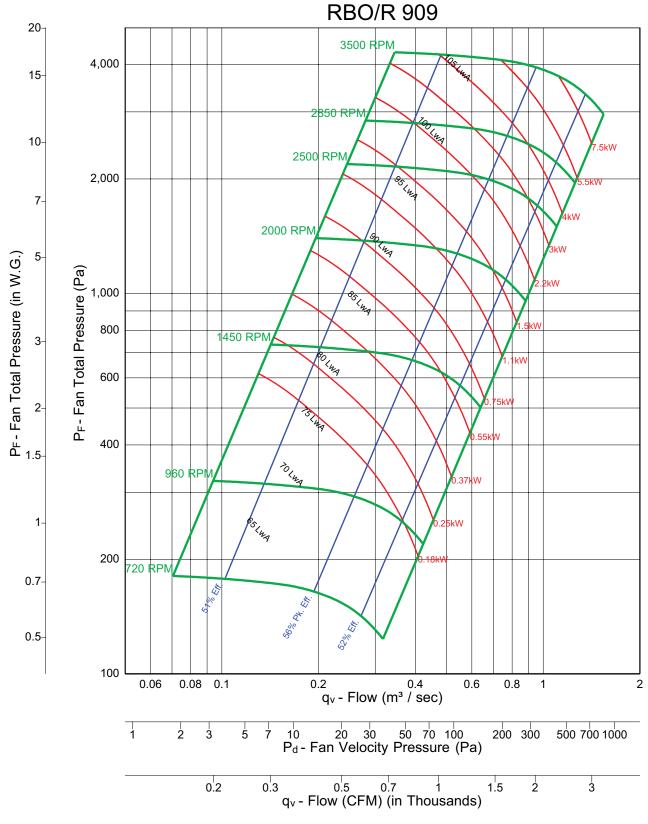
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

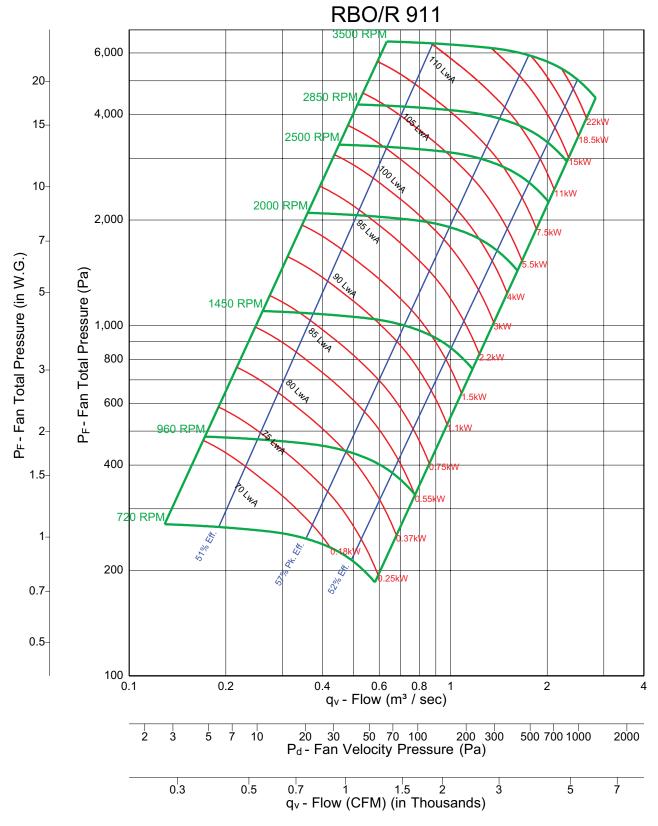
 6. Ratings do not include the effects of duct end correction.

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



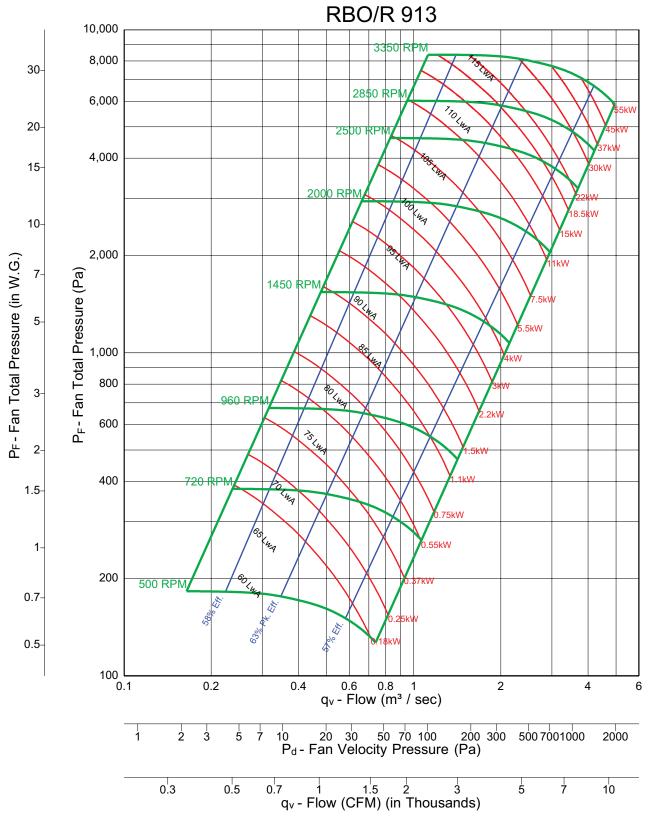


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.



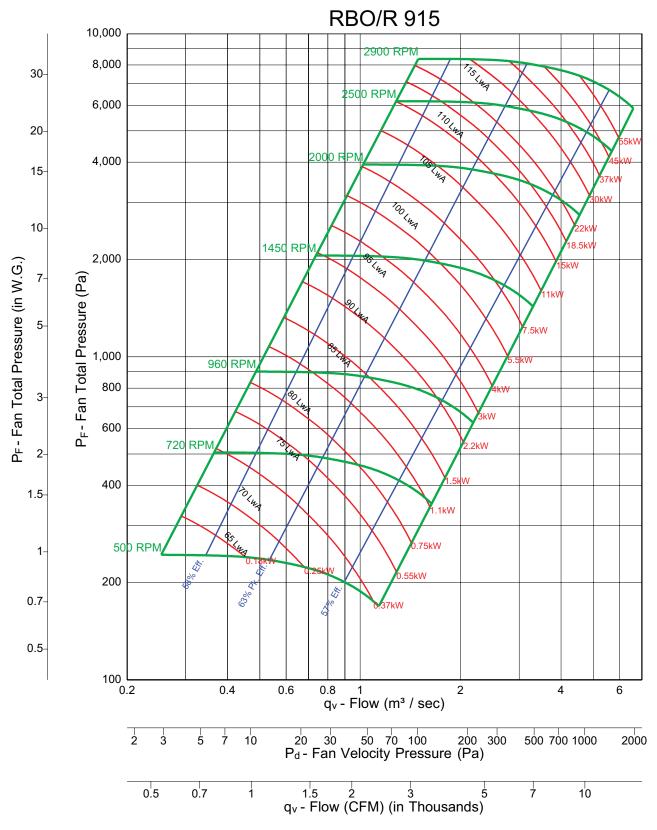


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
- 6. Ratings do not include the effects of duct end correction.
- The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





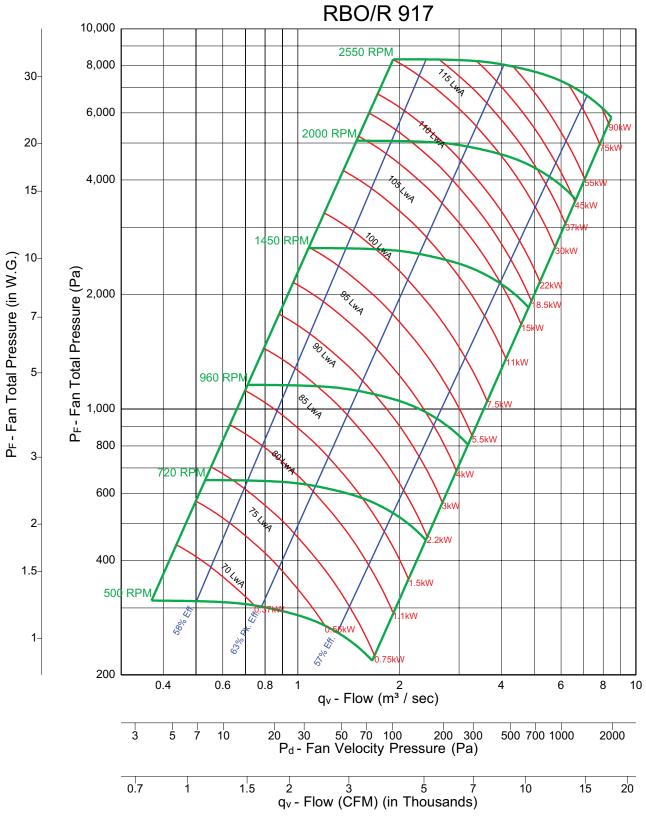
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

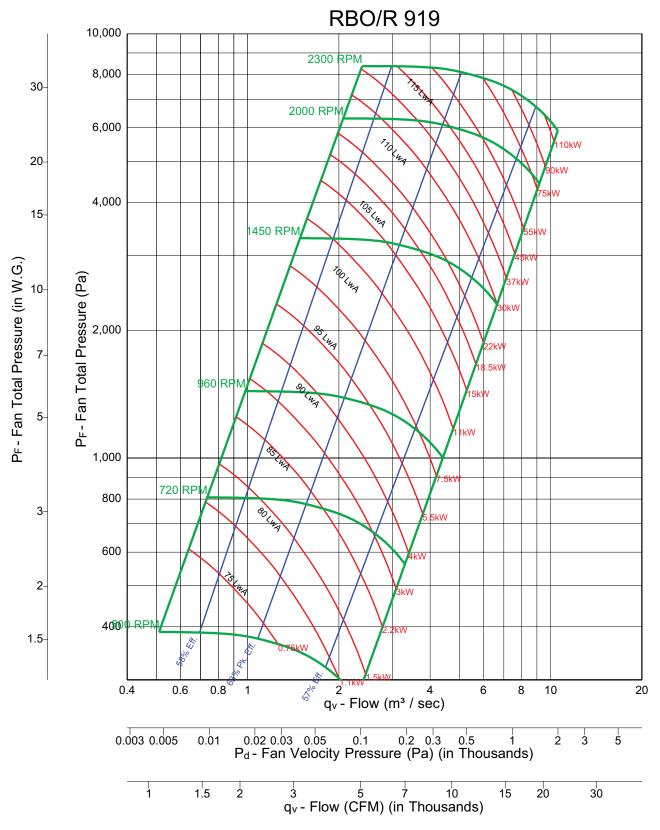
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





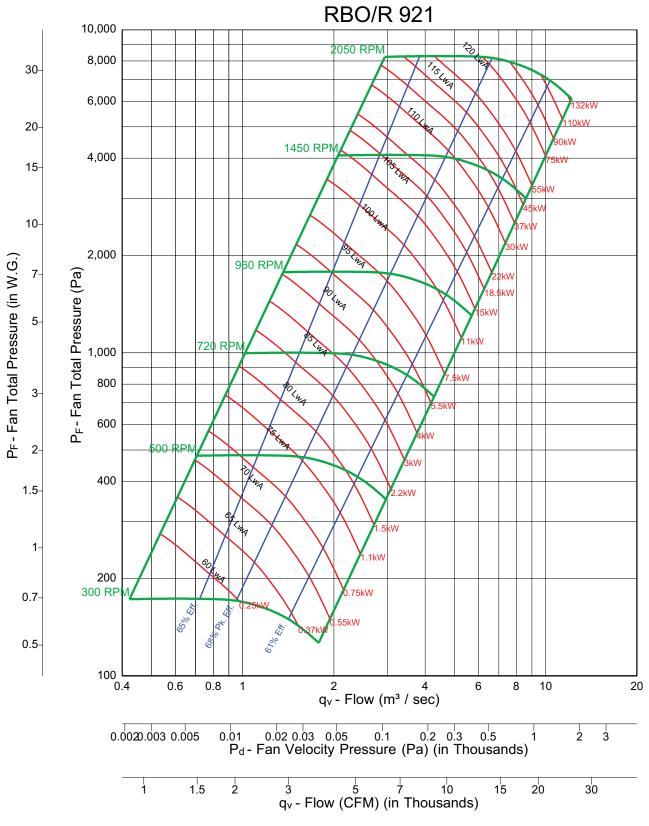
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

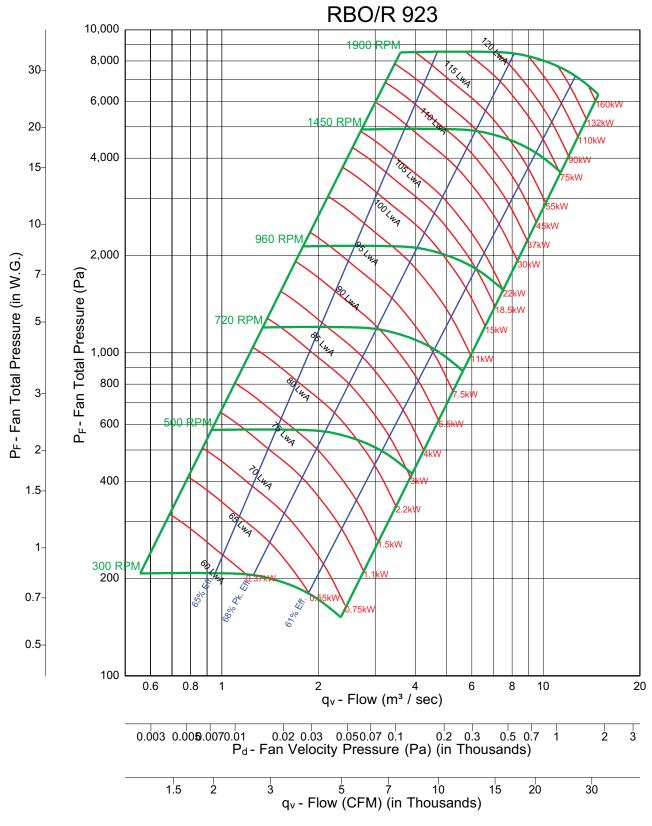
 6. Ratings do not include the effects of duct end correction.

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



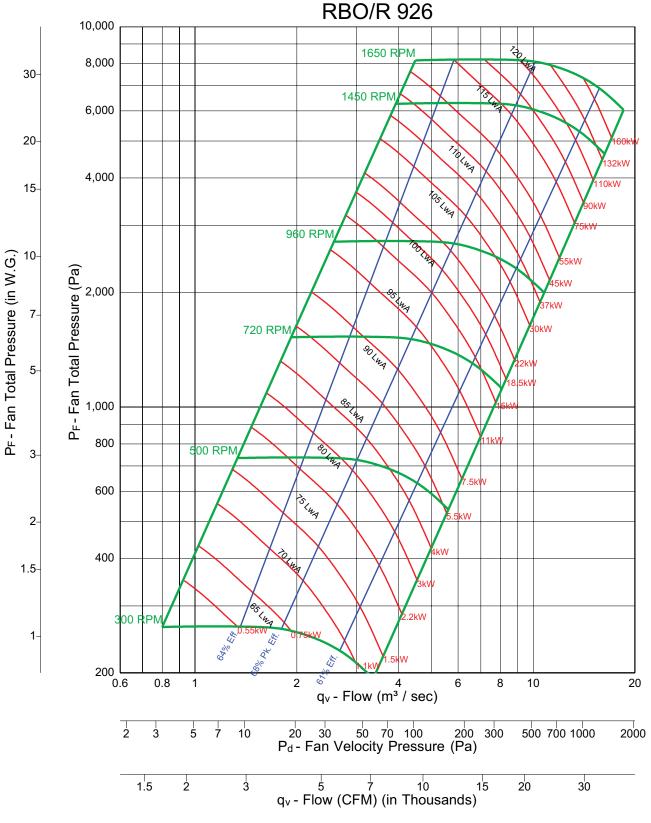


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.



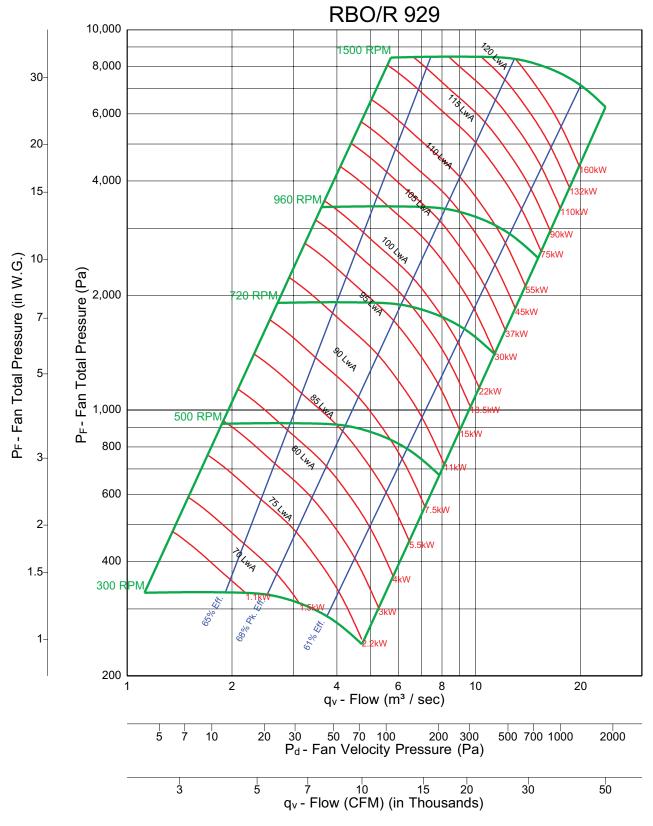


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
- 6. Ratings do not include the effects of duct end correction.
- The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





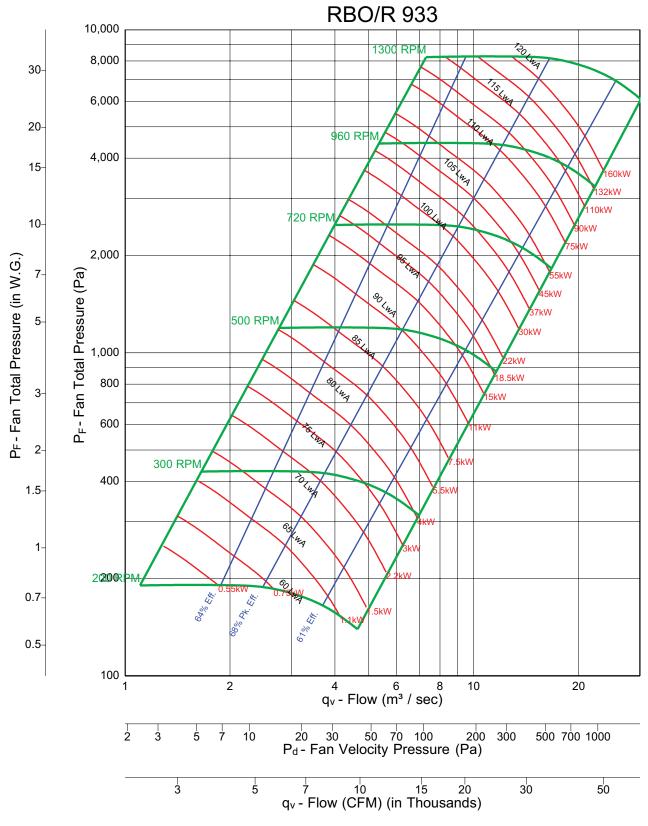
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





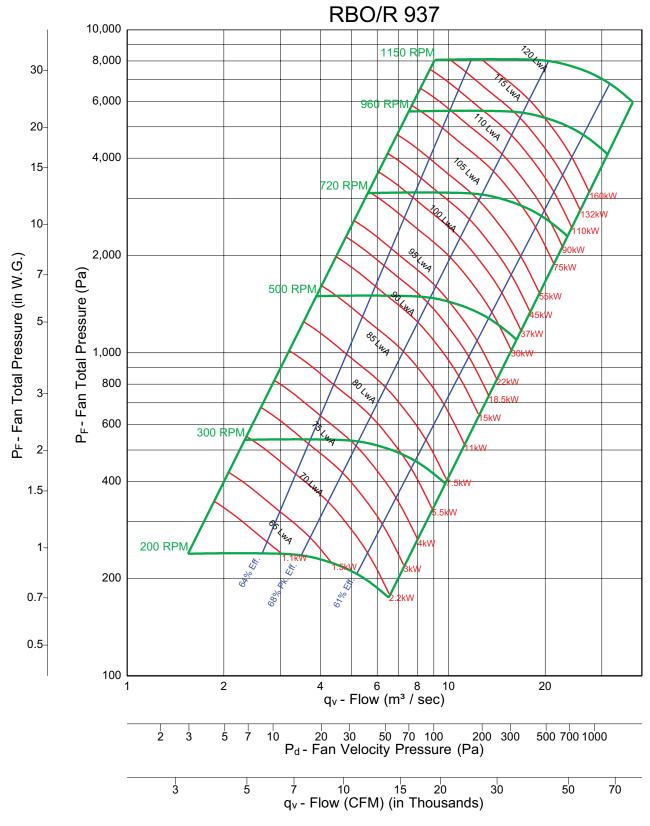
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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



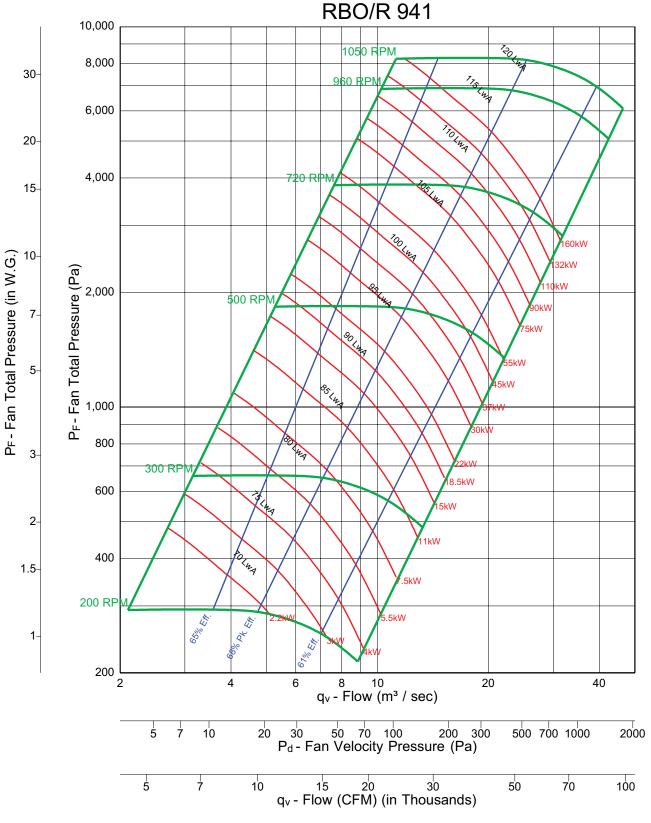


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.



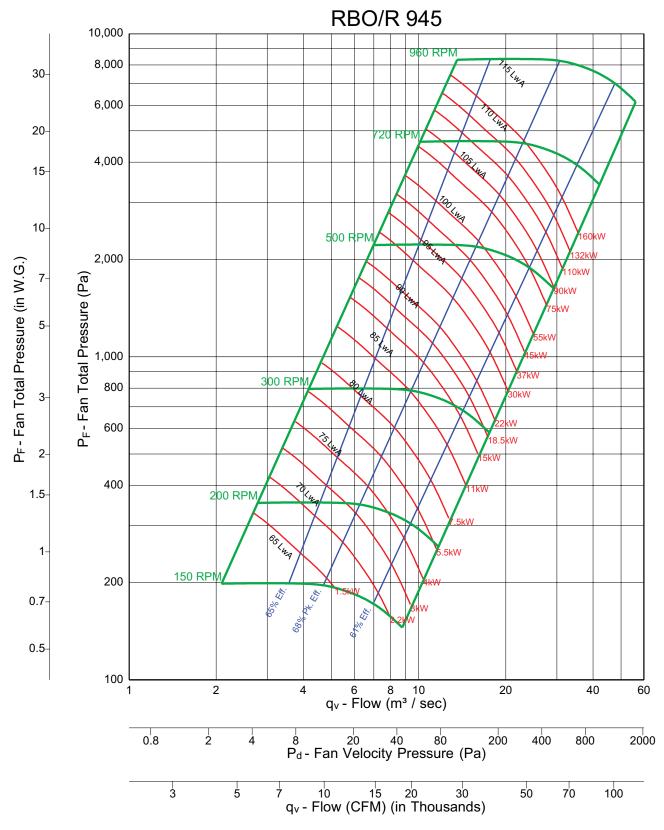


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
- 6. Ratings do not include the effects of duct end correction.
- The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





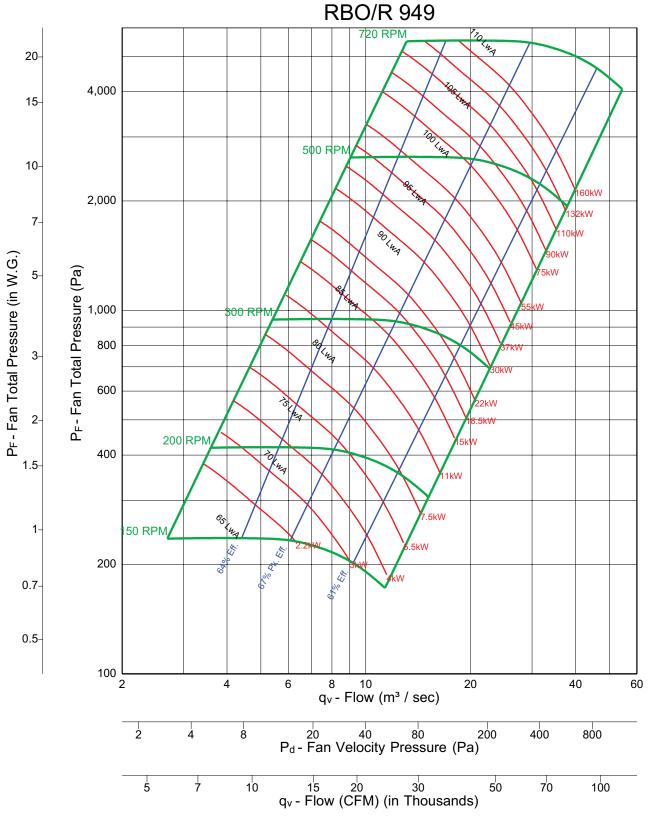
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

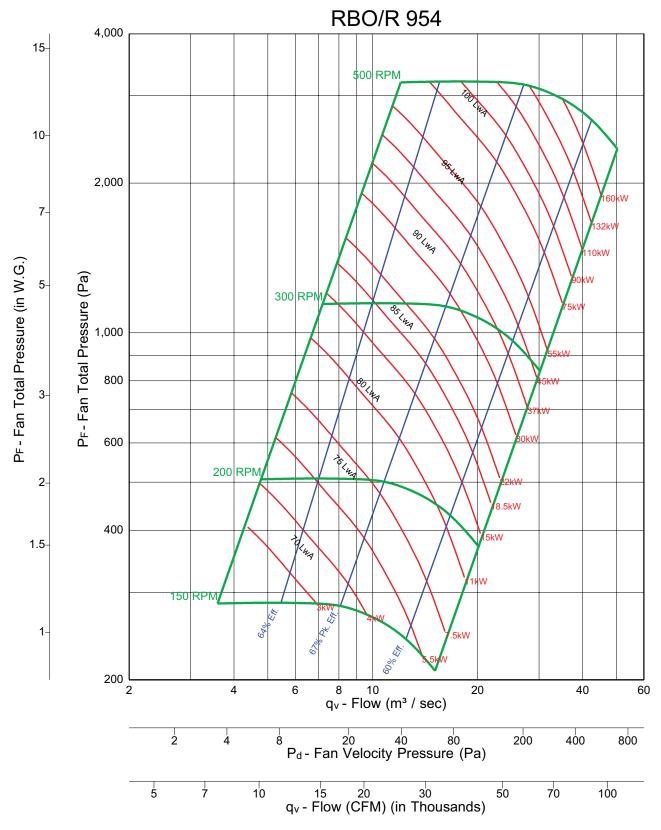
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





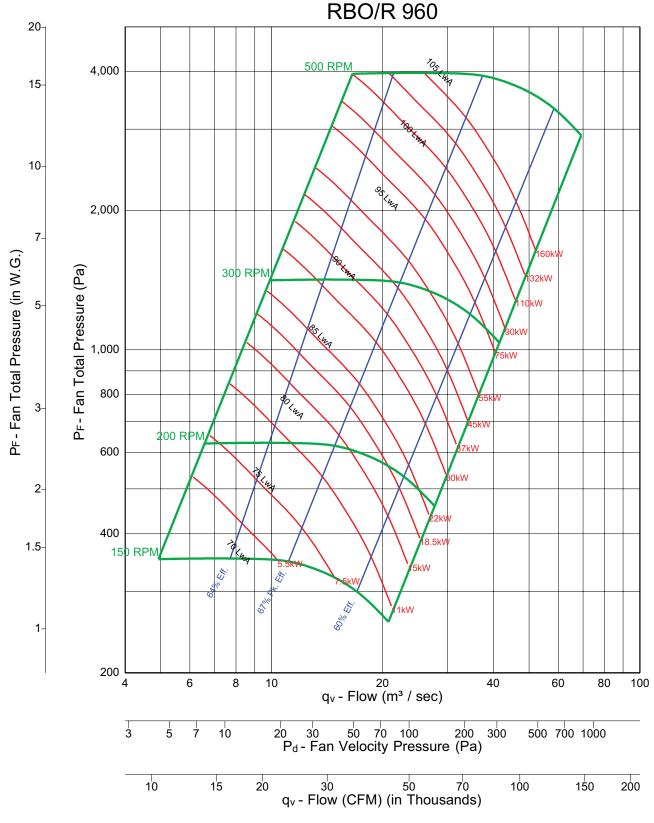
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

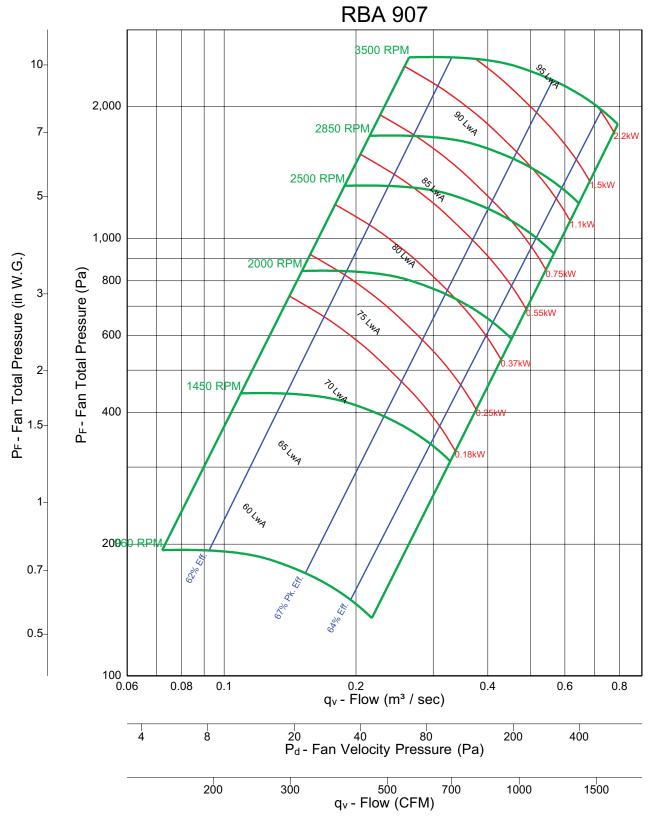
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





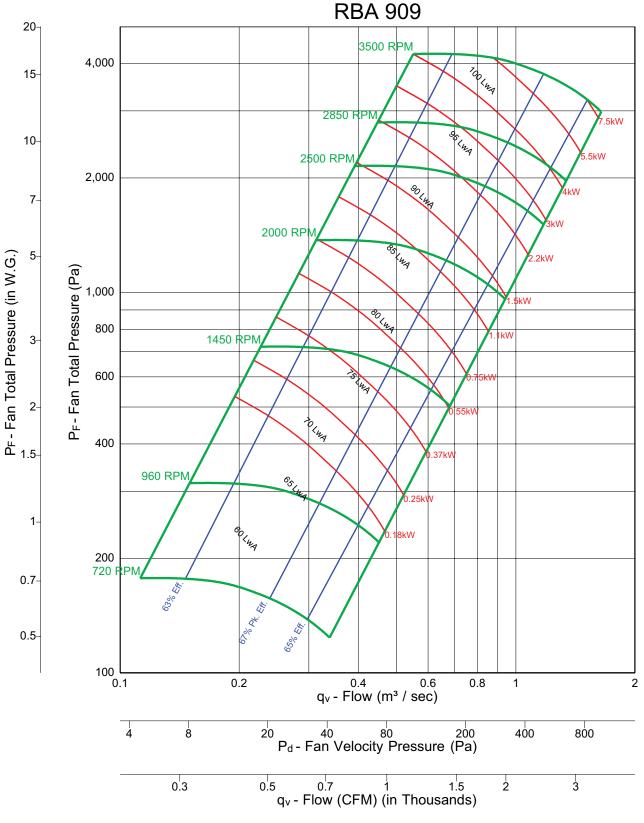
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

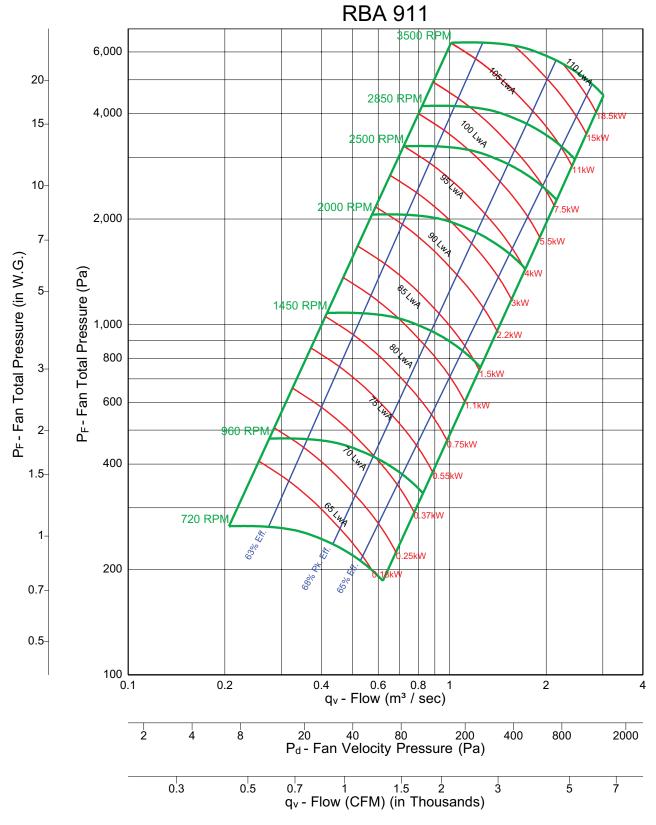
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





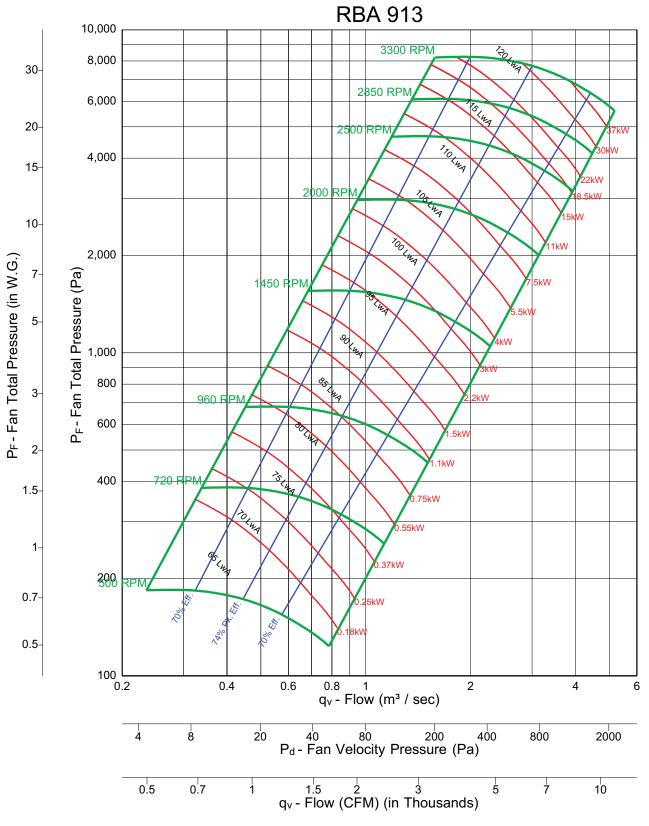
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

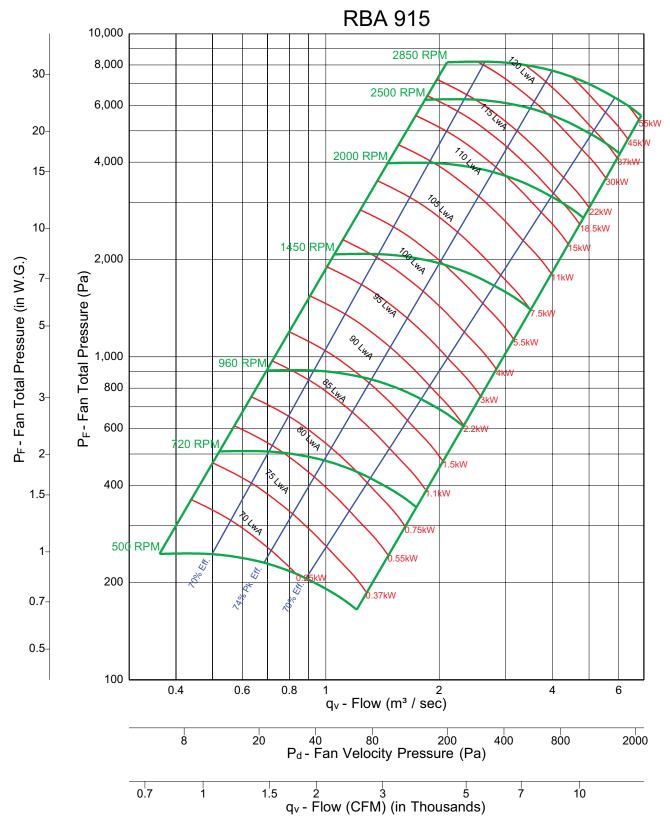
 6. Ratings do not include the effects of duct end correction.

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





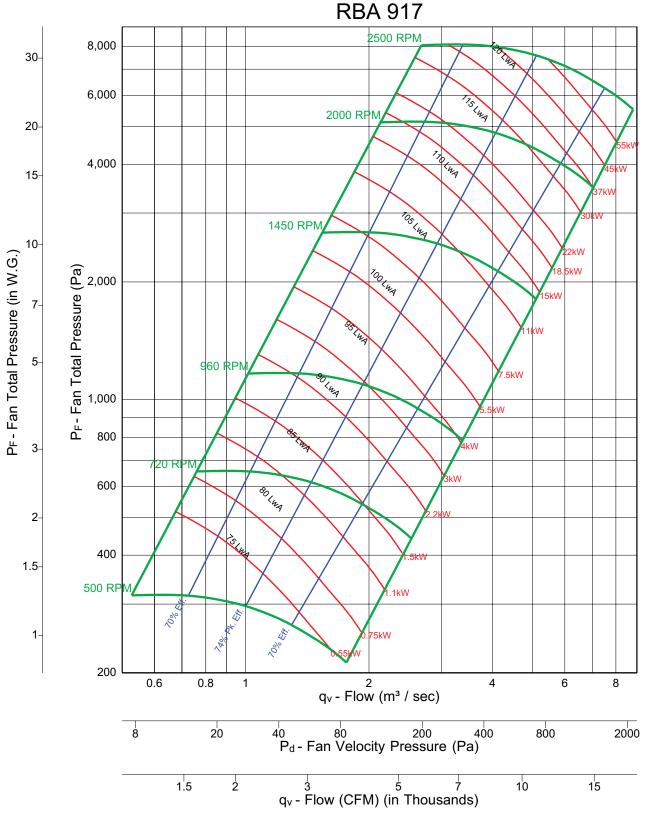
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





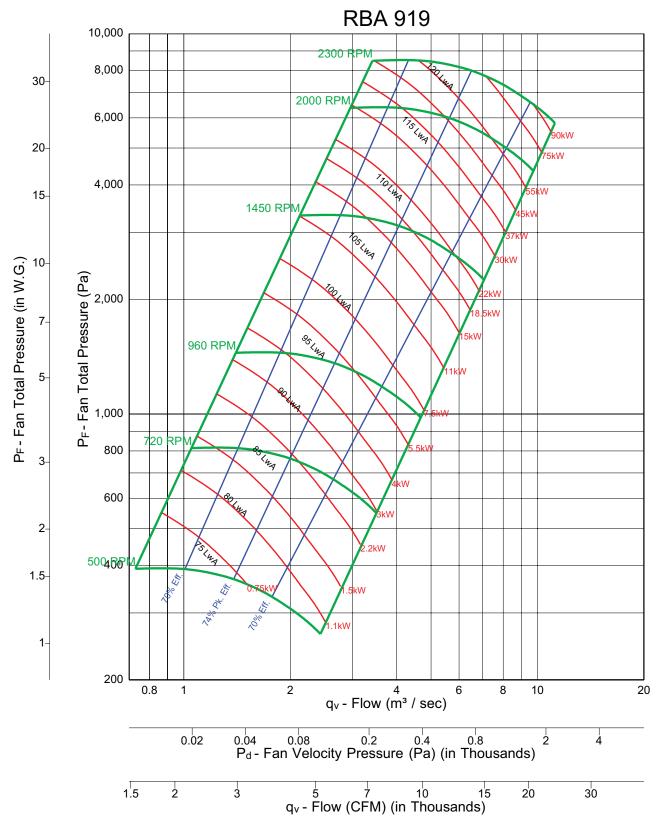
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





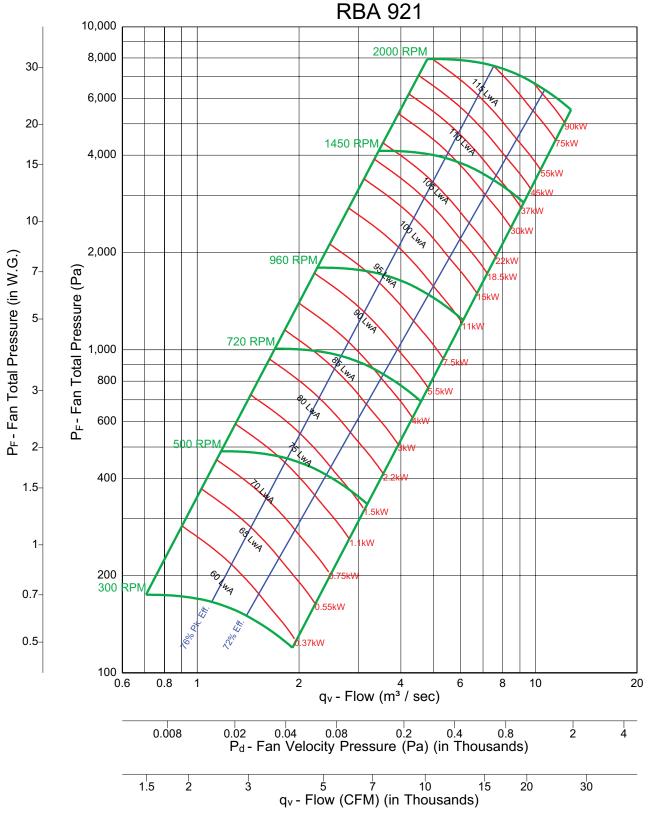
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

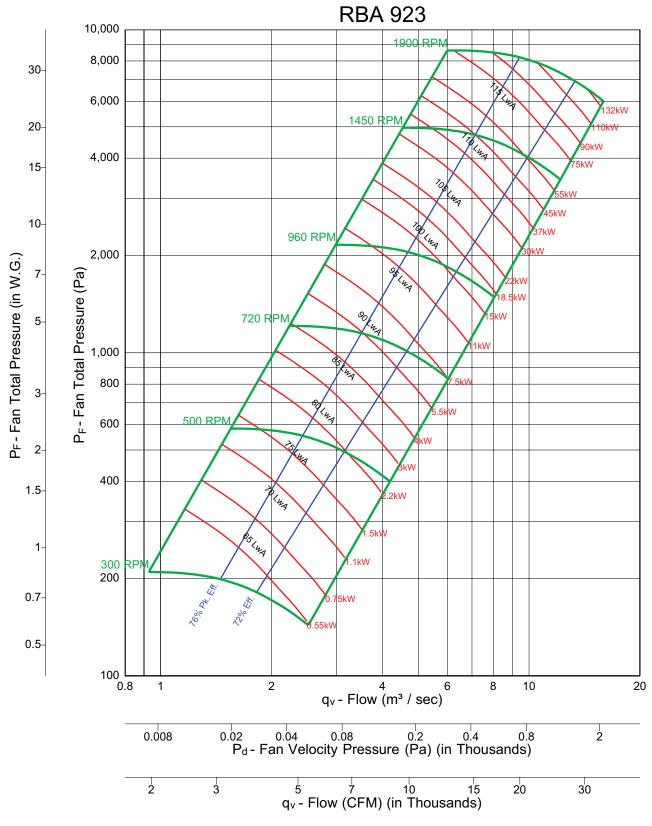
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





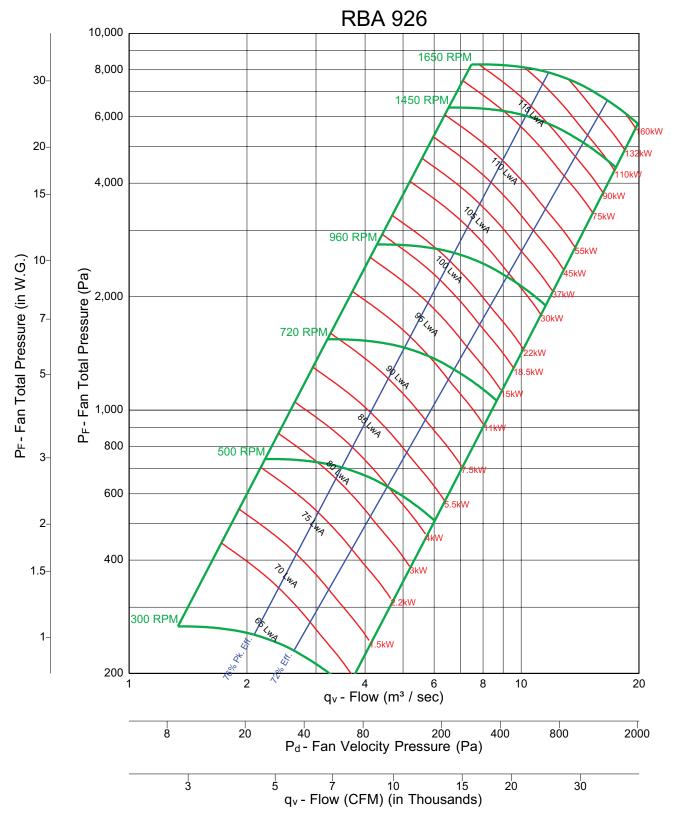
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

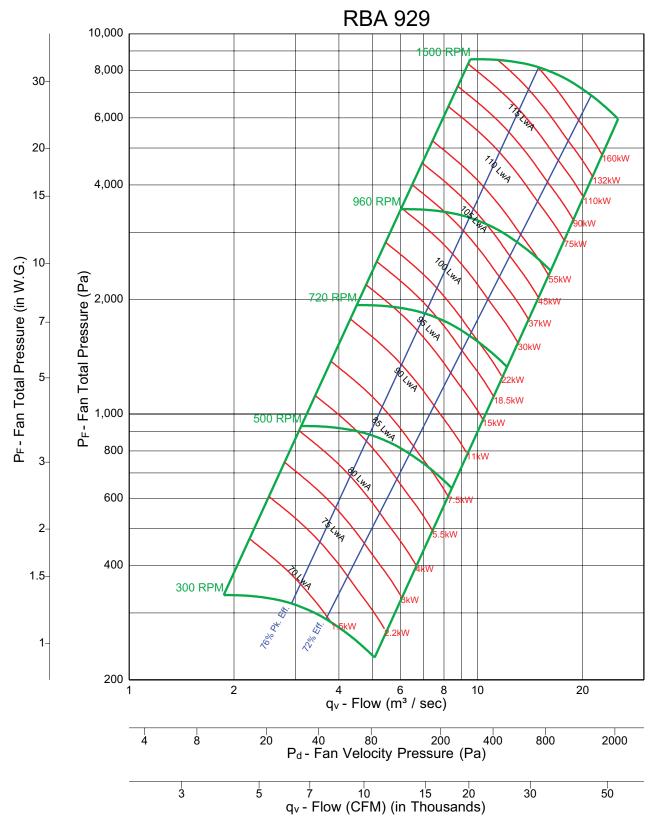
 6. Ratings do not include the effects of duct end correction.

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





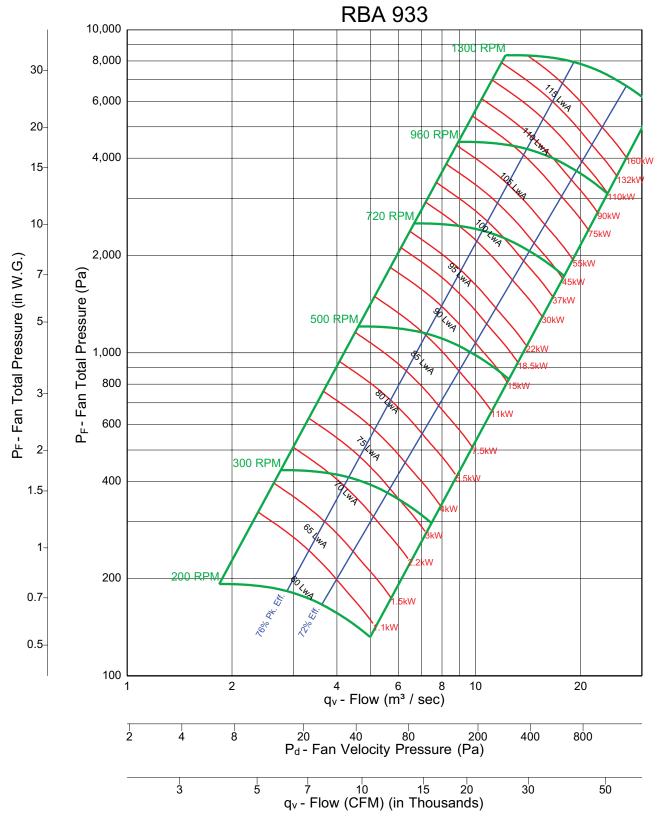
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





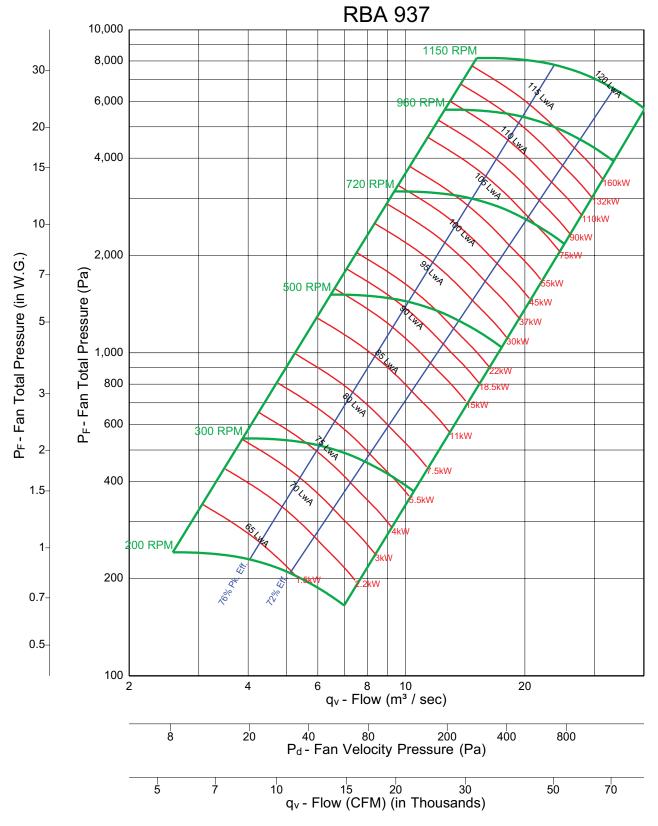
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





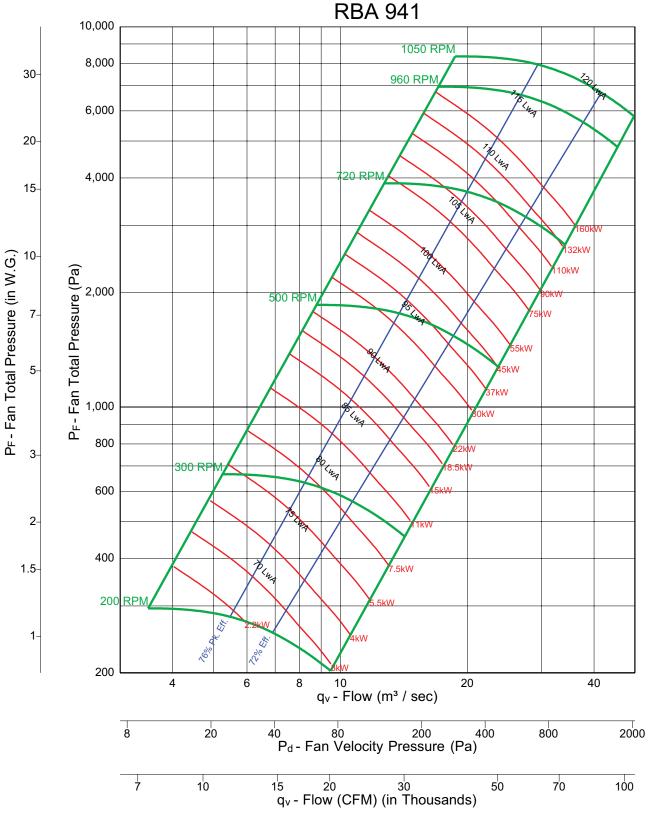
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

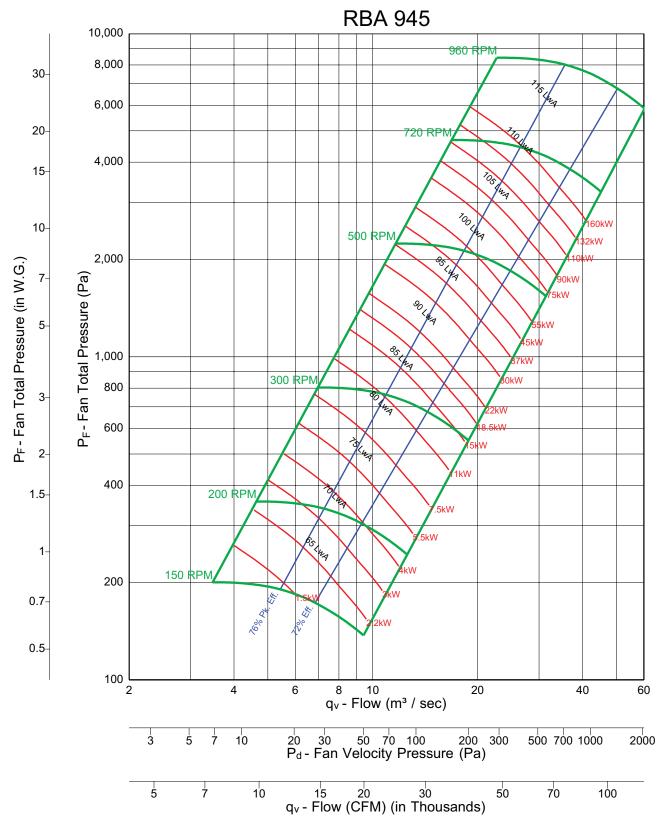
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





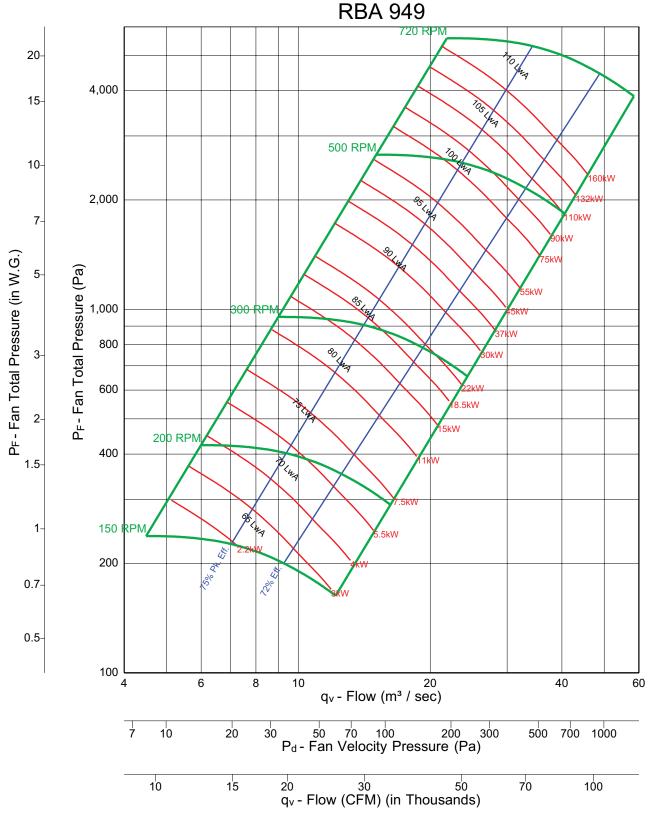
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

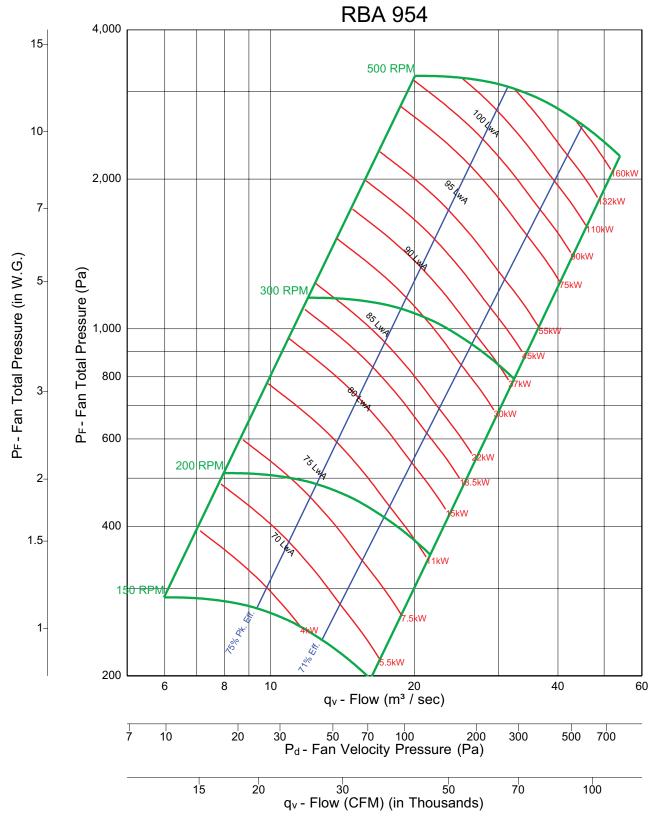
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





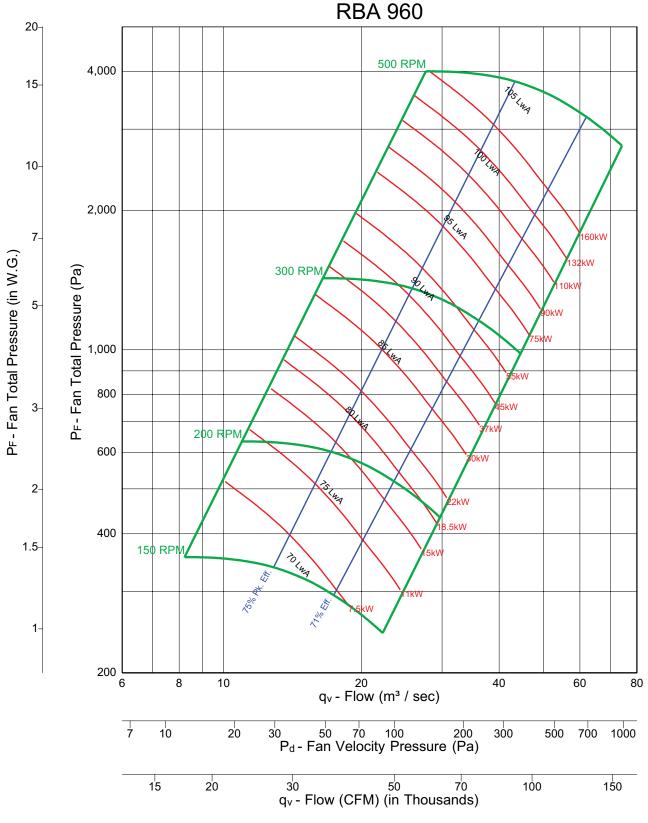
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

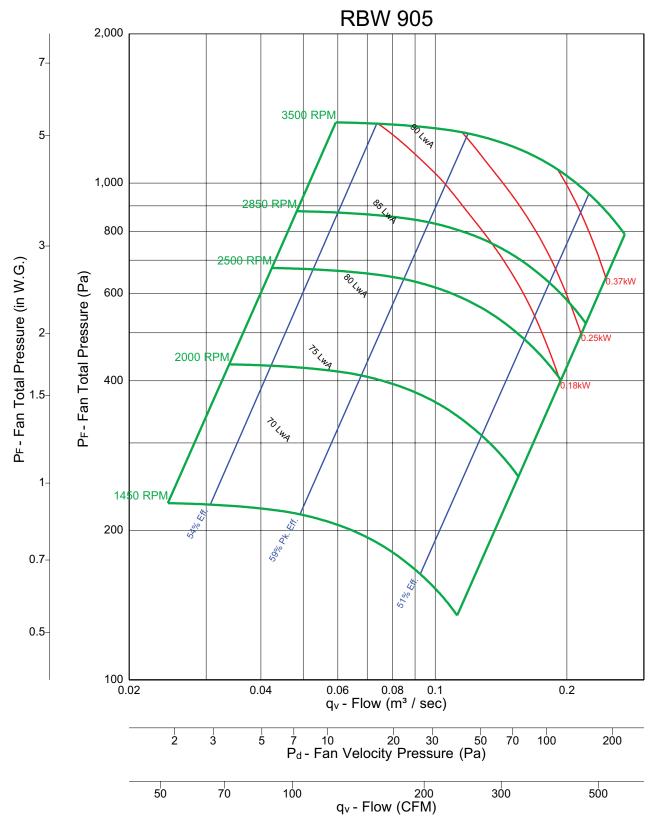
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





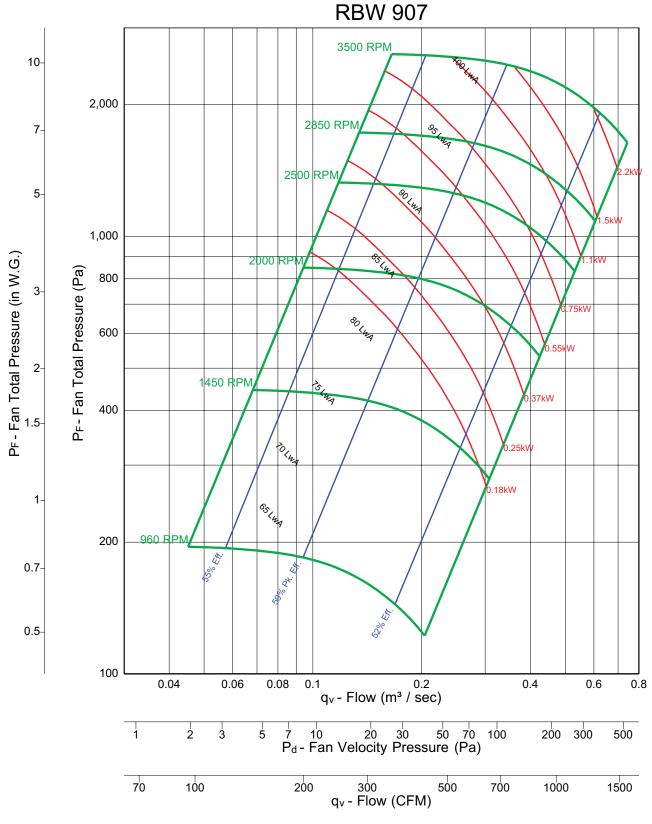
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

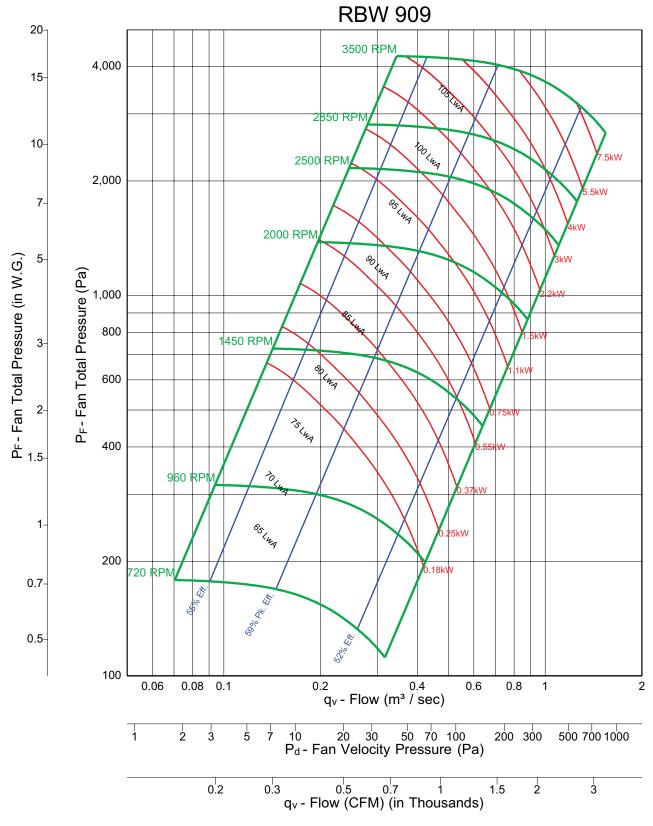
 6. Ratings do not include the effects of duct end correction.

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





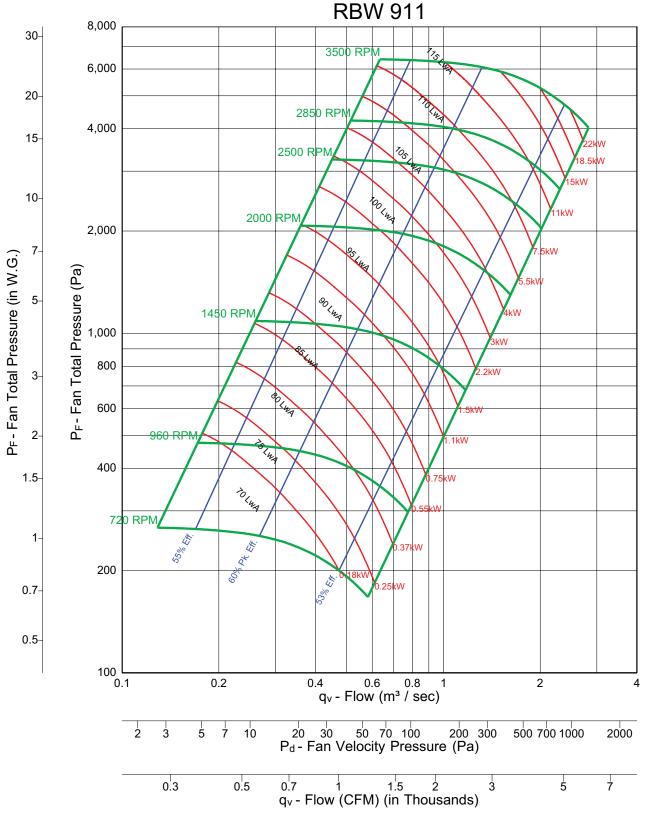
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





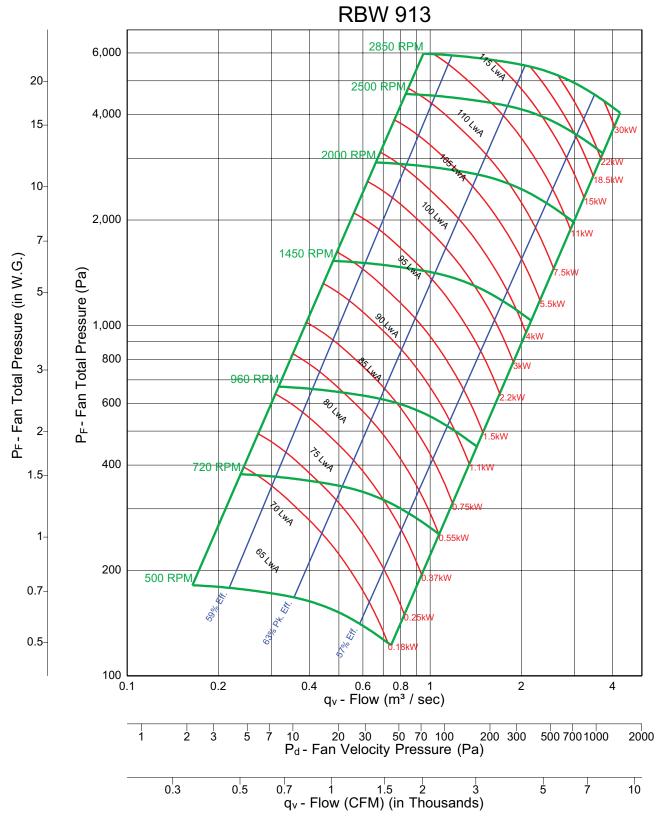
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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



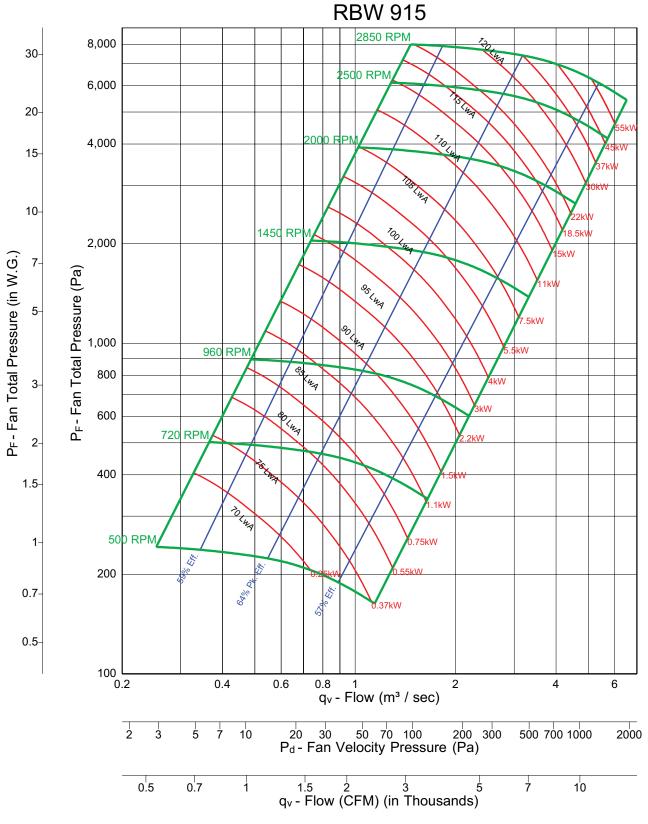


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.



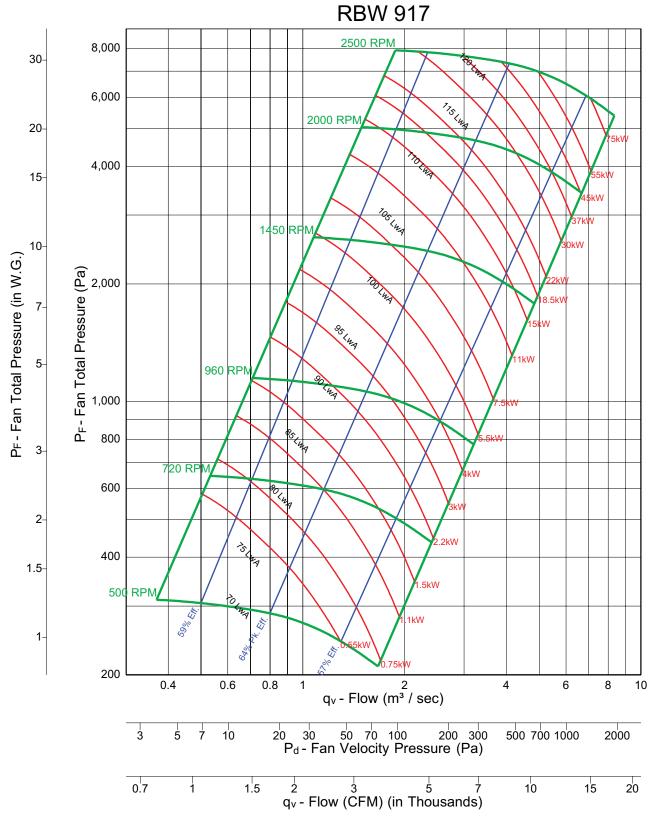


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
- 6. Ratings do not include the effects of duct end correction.
- The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





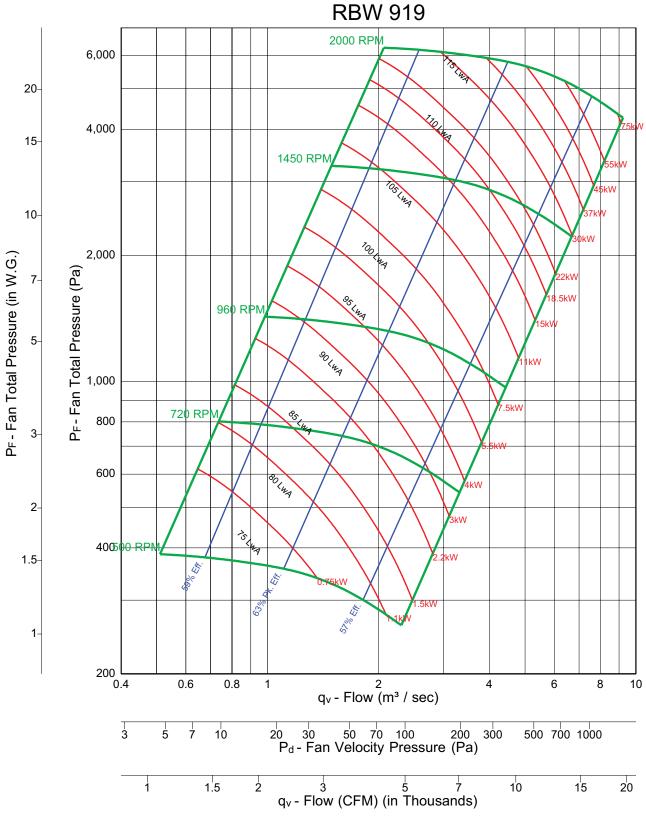
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





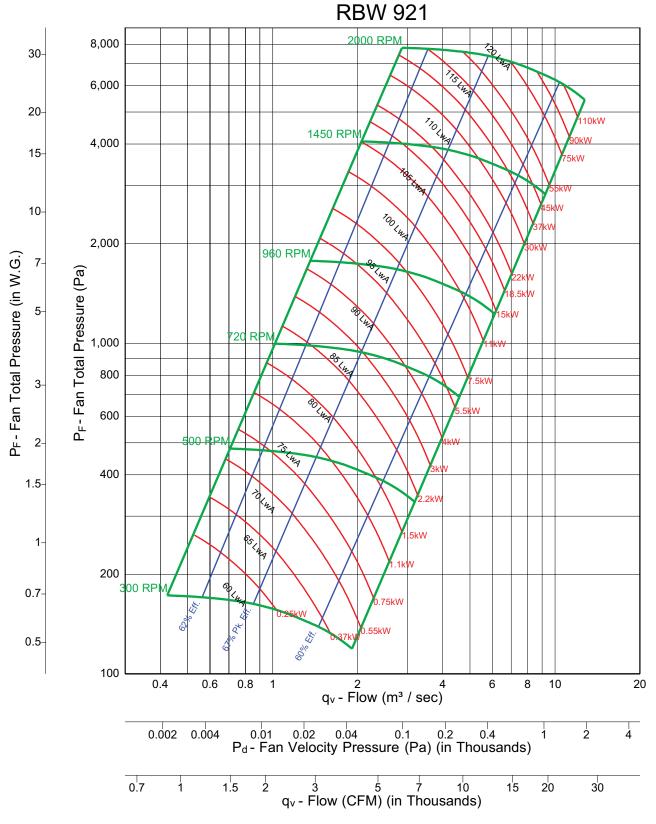
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





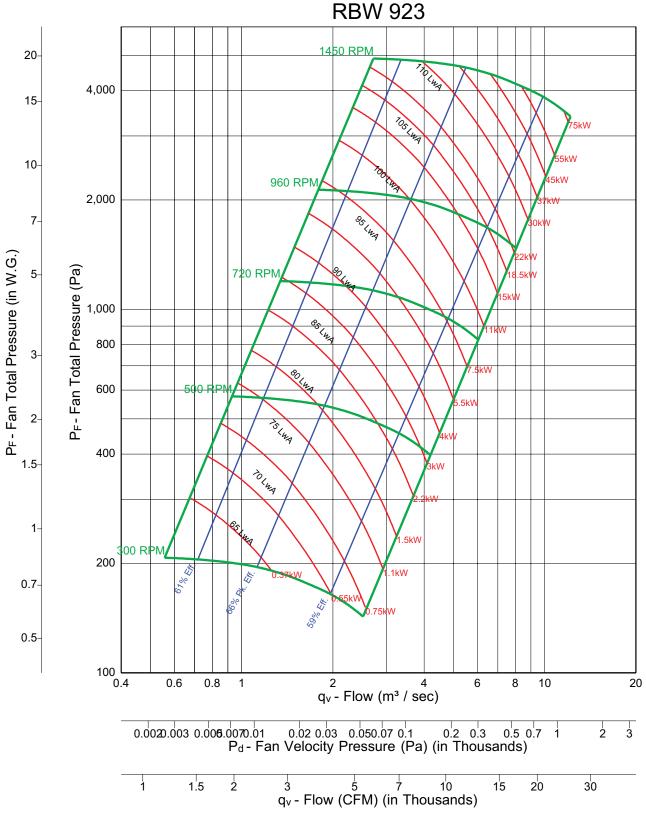
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

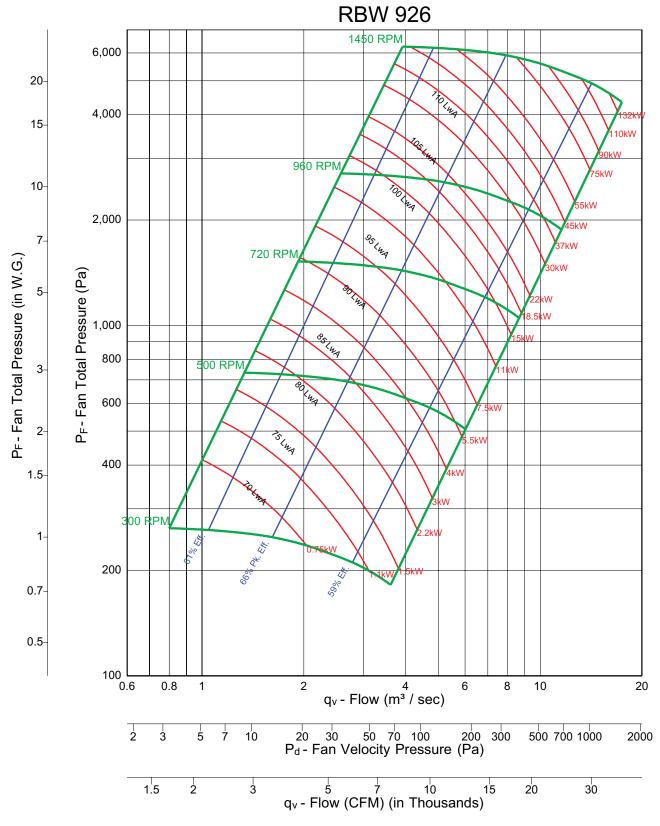
 6. Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





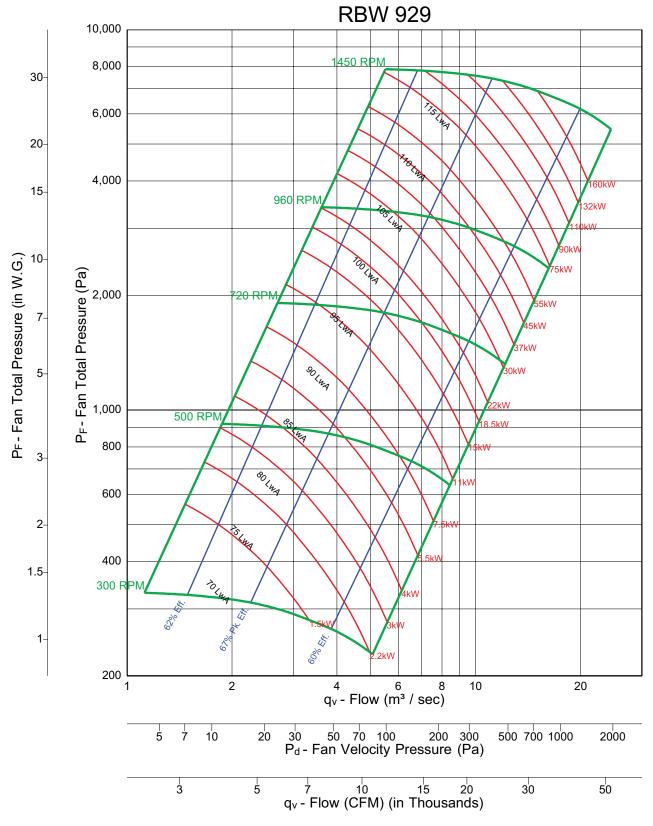
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

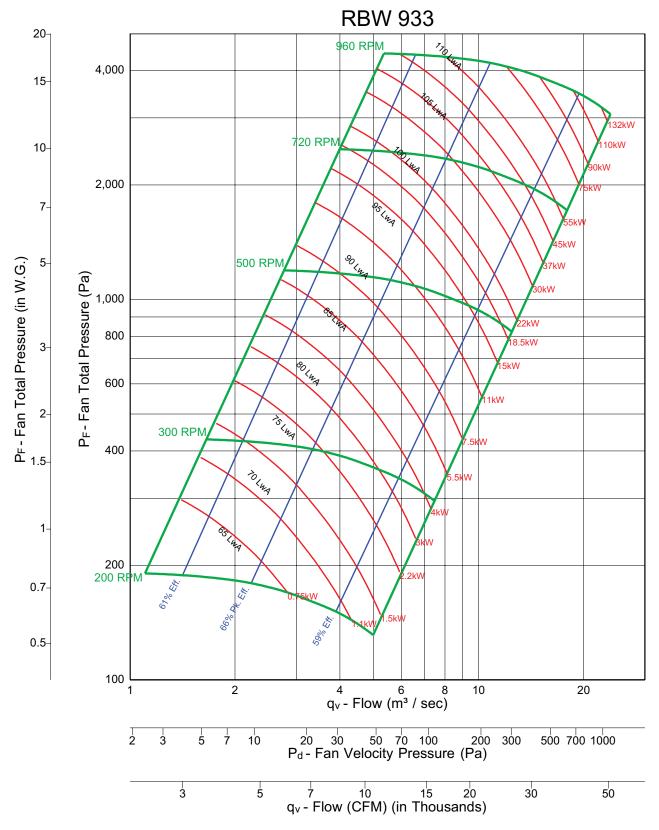
 6. Ratings do not include the effects of duct end correction.

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





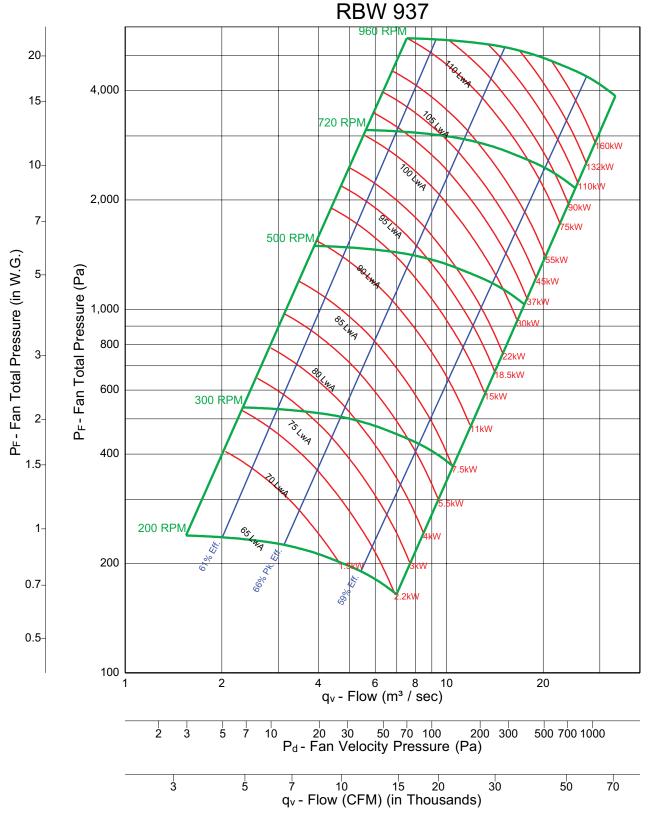
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





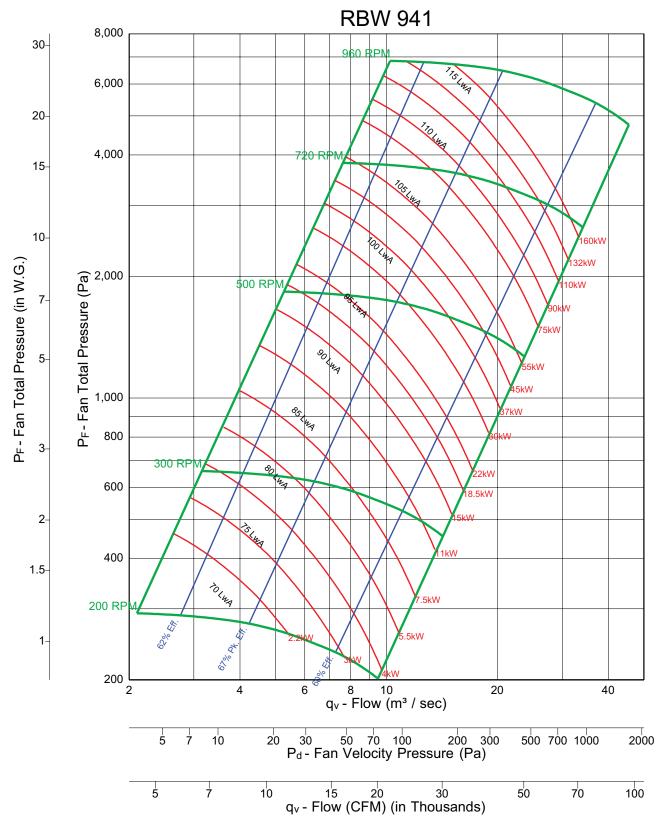
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





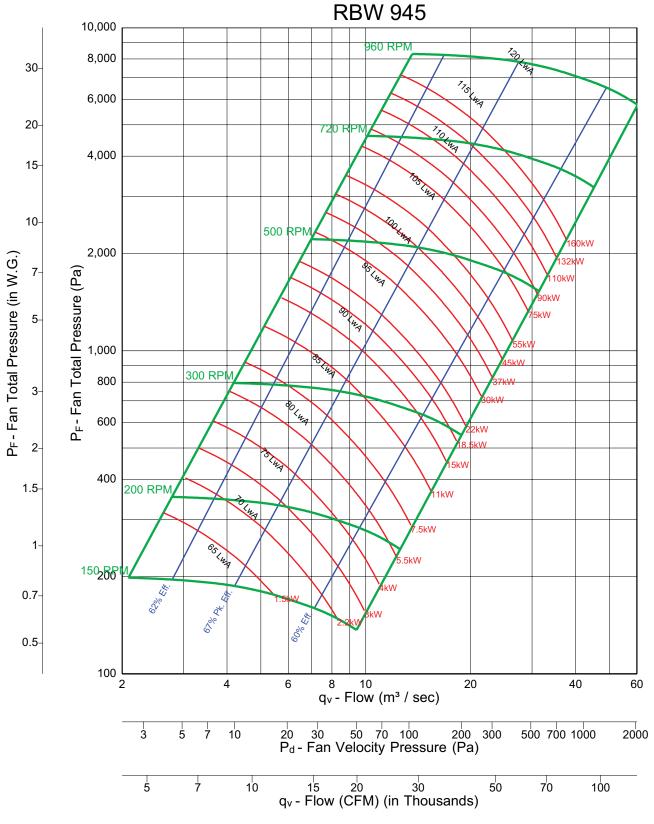
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- 2. Performance ratings do not include the effects of appurtenances (accessories).

 4. The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.

 5. Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.

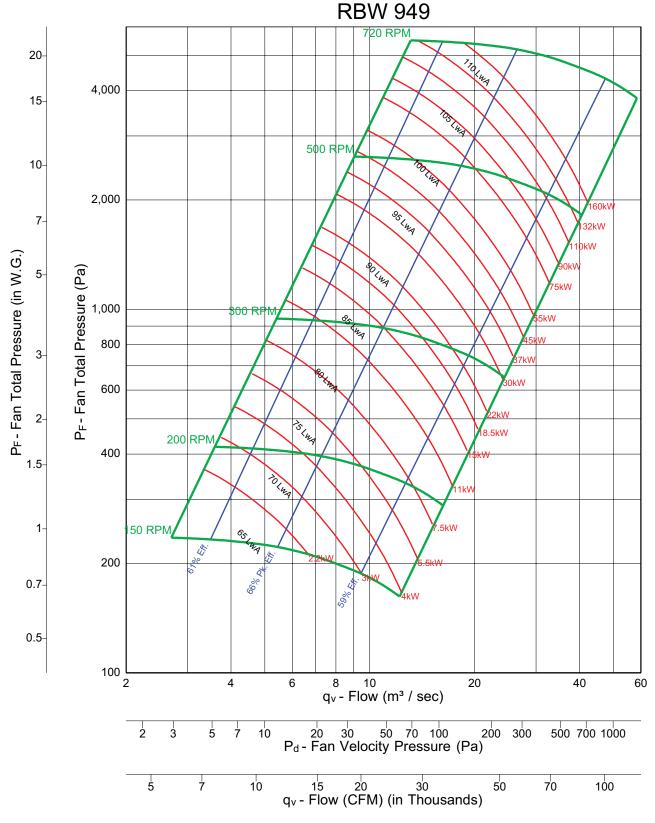
 6. Ratings do not include the effects of duct end correction.

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



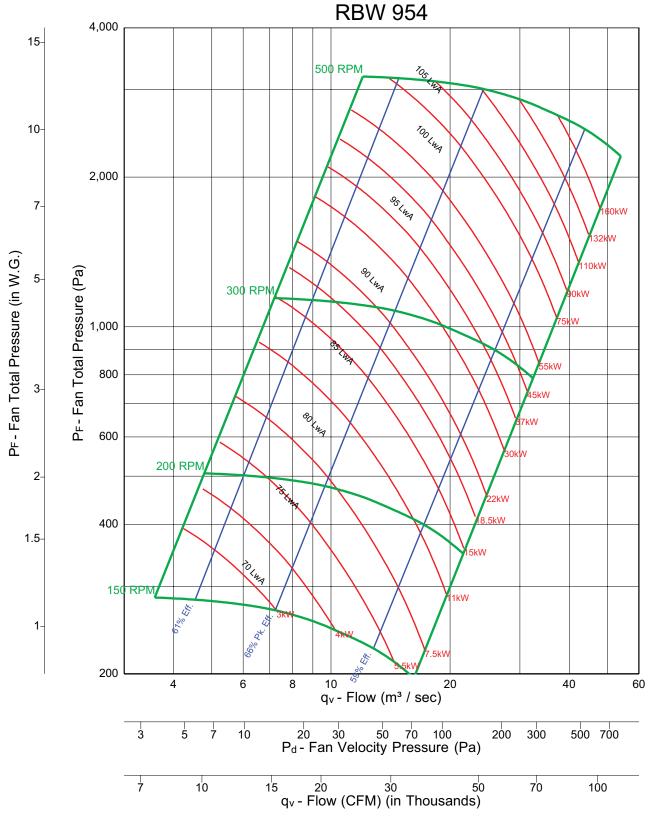


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.



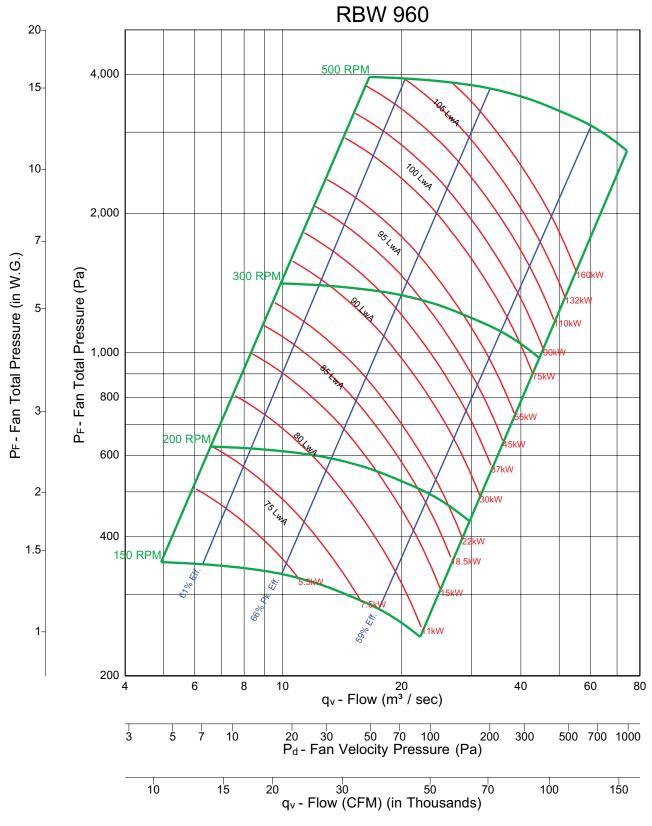


- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
- 6. Ratings do not include the effects of duct end correction.
- The A-weighted sound ratings shown have been calculated per AMCA Standard 301.





- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

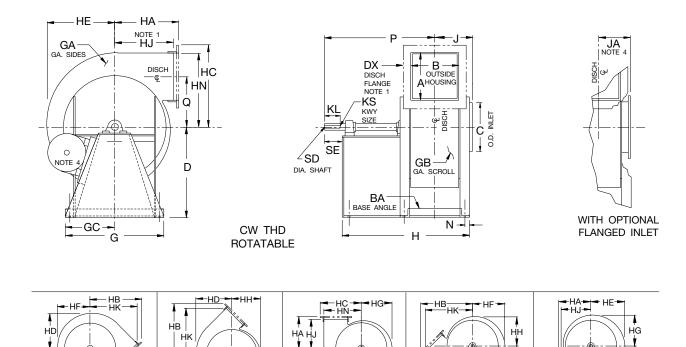




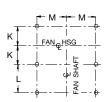
- 1. Performance certified is for Installation Type B & D: Free or ducted inlet, ducted outlet.
- 2. Power rating (kW) does not include transmission losses.
- Performance ratings do not include the effects of appurtenances (accessories).
 The sound power level ratings shown are in decibels, referred to 10 E-12 watts calculated per AMCA Standard 301.
 Values shown are for inlet LwiA sound power levels for Installation Type B: Free inlet, ducted outlet.
 Ratings do not include the effects of duct end correction.

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

RBO, RBA, & RBW, Arr. 9A & 9B, Class 22







CW TAD

NOTES:

CW UBD

CW

Outlet flanges are optional. Flanges are punched per drawing AC15146.

CW BAU

- CW rotation is shown. CCW rotation is similar but opposite.
- For 'DBD' (downblast) see drawing AC15071.

 Motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation.

 Dimension 'FR' is Max. Motor Frame.
- 5. Optional flanged inlet per drawing AC15143.

| FAN | Α | В | ВА | ВН | С | | | DX | F | R | G | GA | GB | GC |
|------|-----|-----|---------|----|-----|-----|-----|----|------|------|-----|-----|-----|-----|
| SIZE | Α | Б | DA | ВΠ | ٥ | 9A | 9B | DX | 9A | 9B | G | GA | GB | GC |
| 907 | 173 | 154 | 38 x 38 | 11 | 178 | 470 | 546 | 32 | 112M | 132M | 362 | 2.5 | 2.5 | 181 |
| 909 | 219 | 195 | 38 x 38 | 11 | 229 | 470 | 622 | 32 | 112M | 160L | 451 | 2.5 | 2.5 | 226 |
| 911 | 268 | 240 | 51 x 51 | 14 | 279 | 546 | 635 | 38 | 132M | 160L | 514 | 3 | 3 | 257 |
| 913 | 316 | 283 | 51 x 51 | 14 | 330 | 552 | 705 | 38 | 132M | 180L | 591 | 3 | 3 | 295 |
| 915 | 363 | 325 | 64 x 64 | 14 | 381 | 641 | 718 | 38 | 160L | 180L | 667 | 3 | 3 | 334 |
| 917 | 413 | 368 | 64 x 64 | 14 | 432 | 718 | 813 | 38 | 160L | 200L | 749 | 3 | 3 | 375 |
| 919 | 459 | 410 | 64 x 64 | 14 | 483 | 794 | 902 | 51 | 180L | 225M | 794 | 3 | 3 | 397 |

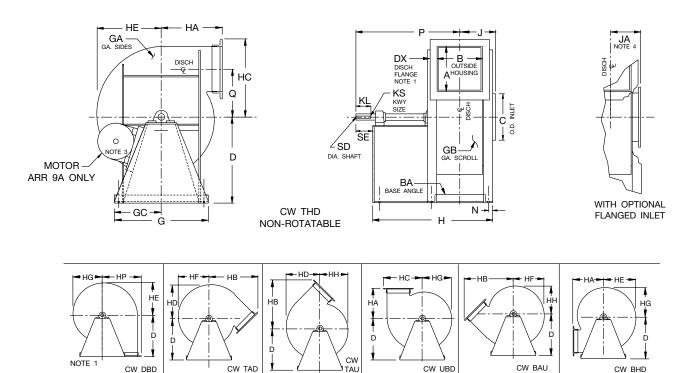
| FAN | | 1 | НА | НВ | нс | HD | HE | HE | HG | нн | HJ | нк | HN | | JA |
|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE | 9A | 9B | ПА | ПБ | пС | עח | ne . | | пG | nn | ПЭ | пк | ПИ | , | JA |
| 907 | 630 | 722 | 224 | 372 | 300 | 257 | 246 | 235 | 224 | 213 | 211 | 340 | 268 | 119 | 145 |
| 909 | 672 | 887 | 283 | 465 | 375 | 329 | 314 | 300 | 286 | 272 | 270 | 433 | 343 | 140 | 165 |
| 911 | 833 | 957 | 343 | 565 | 456 | 400 | 383 | 365 | 348 | 330 | 330 | 530 | 418 | 175 | 213 |
| 913 | 876 | 1060 | 403 | 662 | 532 | 473 | 452 | 432 | 411 | 391 | 391 | 626 | 494 | 195 | 233 |
| 915 | 1068 | 1129 | 464 | 757 | 607 | 545 | 521 | 497 | 473 | 449 | 451 | 721 | 568 | 230 | 256 |
| 917 | 1111 | 1235 | 524 | 854 | 683 | 617 | 591 | 564 | 537 | 510 | 511 | 818 | 645 | 251 | 276 |
| 919 | 1213 | 1314 | 583 | 956 | 768 | 687 | 657 | 627 | 597 | 567 | 570 | 911 | 718 | 272 | 297 |

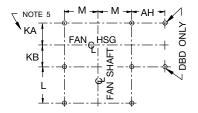
| FAN | V | KL | KS | | | М | N | | | 0 | SD | SE | IMPELLER |
|------|-----|-----|--------|-----|-----|-----|----|------|------|-----|----|-----|----------|
| SIZE | Α. | KL | No | 9A | 9B | IVI | Z | 9A | 9B | ¥ | שפ | SE | DIAMETER |
| 907 | 103 | 114 | 10 x 5 | 386 | 478 | 162 | 16 | 632 | 724 | 183 | 35 | 121 | 311 |
| 909 | 124 | 127 | 10 x 5 | 386 | 602 | 207 | 16 | 672 | 887 | 233 | 35 | 140 | 397 |
| 911 | 152 | 127 | 10 x 5 | 478 | 602 | 232 | 22 | 799 | 922 | 284 | 40 | 140 | 486 |
| 913 | 173 | 140 | 10 x 5 | 480 | 664 | 270 | 22 | 833 | 1018 | 337 | 40 | 152 | 575 |
| 915 | 202 | 140 | 13 x 6 | 602 | 662 | 302 | 29 | 991 | 1051 | 387 | 55 | 152 | 664 |
| 917 | 222 | 152 | 13 x 6 | 603 | 727 | 343 | 29 | 1038 | 1162 | 438 | 55 | 178 | 753 |
| 919 | 243 | 178 | 13 x 6 | 664 | 765 | 365 | 29 | 1132 | 1233 | 489 | 55 | 191 | 838 |

AC15074

CW BHD

RBO, RBA, & RBW, Arr.1 & 9A, Class 22





SIX 'BH' DIA. BASE HOLES (EIGHT HOLES ON 'DBD') FOUNDATION PLAN

NOTES:

- Outlet flanges punched per drawing AC15146 except 'DBD' is punched per foundation plan. 'DBD' "punched" outlet is per drawing AC15392. CW rotation is shown. CCW rotation is similar but opposite. Arrangement 9 motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9A.

- Optional flanged inlet per drawing AC15143.
- Use dimension 'KB' for 'DBD'.

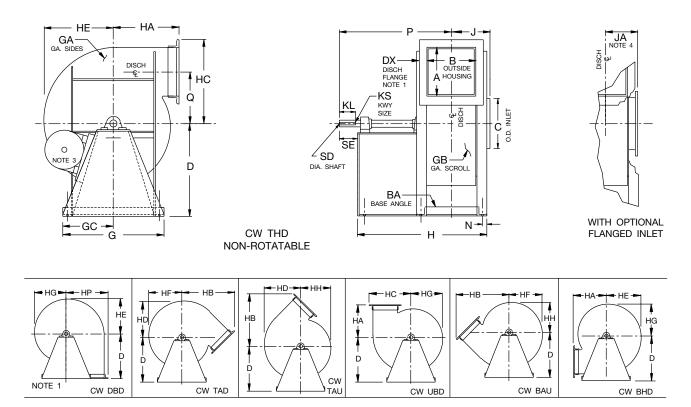
| FAN SIZE | Α | АН | В | ВА | вн | С | D | DX | FR (9A) | G | GA | GB |
|-------------|-----|-----|-----|---------|----|-----|------|----|------------|------|----|----|
| 921 | 508 | 400 | 452 | 76 x 76 | 21 | 533 | 876 | 51 | 200L | 946 | 3 | 3 |
| 923 | 559 | 440 | 499 | 76 x 76 | 21 | 584 | 953 | 51 | 200L | 1022 | 5 | 5 |
| 926 | 630 | 492 | 562 | 76 x 76 | 21 | 660 | 1060 | 64 | 225M | 1137 | 5 | 5 |
| 929 | 703 | 548 | 626 | 76 x 76 | 21 | 737 | 1181 | 64 | 225M | 1264 | 5 | 5 |

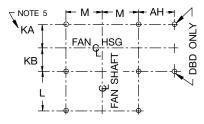
| FAN SIZE | GC | Н | НА | НВ | нс | HD | HE | HF | HG | нн | HP | J | JA |
|-------------|-----|------|-----|------|------|------|------|-----|-----|-----|------|-----|-----|
| 921 | 473 | 1343 | 597 | 1021 | 845 | 759 | 724 | 689 | 654 | 619 | 870 | 308 | 334 |
| 923 | 511 | 1389 | 673 | 1129 | 922 | 833 | 794 | 756 | 716 | 678 | 948 | 330 | 356 |
| 926 | 568 | 1491 | 737 | 1261 | 1045 | 938 | 895 | 852 | 810 | 767 | 1057 | 362 | 387 |
| 929 | 632 | 1554 | 806 | 1394 | 1164 | 1051 | 1003 | 954 | 907 | 857 | 1176 | 394 | 419 |

| FAN SIZE | KA | КВ | KL | KS | L | М | N | Р | Q | SD | SE | IMPELLER DIAMETER |
|-------------|-----|-----|-----|---------|-----|-----|----|------|-----|----|-----|----------------------|
| 921 | 273 | 268 | 178 | 16 x 8 | 725 | 435 | 35 | 1238 | 540 | 60 | 203 | 927 |
| 923 | 295 | 291 | 178 | 16 x 8 | 727 | 473 | 35 | 1262 | 592 | 60 | 203 | 1016 |
| 926 | 327 | 322 | 203 | 19 x 10 | 765 | 530 | 35 | 1357 | 667 | 75 | 229 | 1146 |
| 929 | 359 | 354 | 203 | 22 x 11 | 765 | 594 | 35 | 1402 | 749 | 80 | 241 | 1283 |

AC15063

RBO, RBA, & RBW, Arr. 9B, Class 22





SIX 'BH' DIA. BASE HOLES (EIGHT HOLES ON 'DBD')

FOUNDATION PLAN

NOTES:

- 1. Outlet flanges punched per drawing AC15146 except angles on 'DBD'
- Outlet flanges punched per drawing AC15146 except angles on 'DBD' punched per foundation plan.
 CW rotation is shown. CCW rotation is similar but opposite.
 Motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9B.
 Optional flanged inlet per drawing AC15143.
 Use dimension 'KB' for 'DBD'.

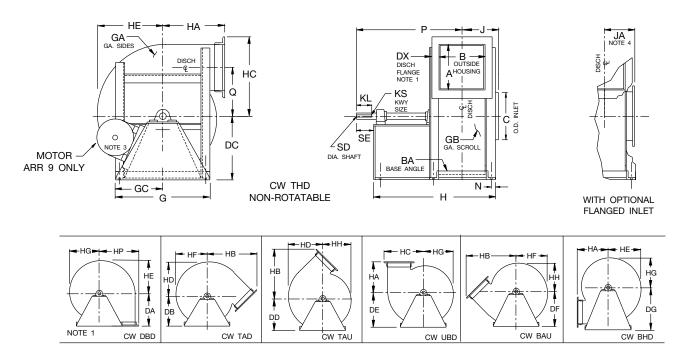
| FAN SIZE | Α | АН | В | ВА | вн | С | D | DX | FR (9B) | G | GA | GB |
|-------------|-----|-----|-----|---------|----|-----|------|----|------------|------|----|----|
| 921 | 508 | 400 | 452 | 76 x 76 | 21 | 533 | 1048 | 51 | 225M | 946 | 3 | 3 |
| 923 | 559 | 440 | 499 | 76 x 76 | 21 | 584 | 1048 | 51 | 225M | 1022 | 5 | 5 |
| 926 | 630 | 492 | 562 | 76 x 76 | 21 | 660 | 1060 | 64 | 250M | 1137 | 5 | 5 |
| 929 | 703 | 548 | 626 | 76 x 76 | 21 | 737 | 1181 | 64 | 250M | 1264 | 5 | 5 |

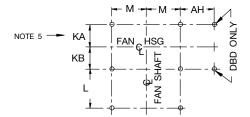
| FAN SIZE | GC | Н | НА | НВ | НС | HD | HE | HF | HG | НН | HP | J | JA |
|-------------|--------|------|-----|------|------|------|------|-----|-----|-----|------|-----|-----|
| 921 | 473 | 1381 | 597 | 1021 | 845 | 759 | 724 | 689 | 654 | 619 | 870 | 308 | 334 |
| 923 | 511.00 | 1427 | 673 | 1129 | 922 | 833 | 794 | 756 | 716 | 678 | 948 | 330 | 356 |
| 926 | 568 | 1618 | 737 | 1261 | 1045 | 938 | 895 | 852 | 810 | 767 | 1057 | 362 | 387 |
| 929 | 632 | 1681 | 806 | 1394 | 1164 | 1051 | 1003 | 954 | 907 | 857 | 1176 | 394 | 419 |

| FAN SIZE | KA | КВ | KL | KS | L | М | N | Р | Q | SD | SE | IMPELLER DIAMETER |
|-------------|-----|-----|-----|---------|-----|-----|----|------|-----|----|-----|----------------------|
| 921 | 273 | 268 | 178 | 16 x 8 | 764 | 435 | 35 | 1276 | 540 | 60 | 203 | 927 |
| 923 | 295 | 291 | 178 | 16 x 8 | 765 | 473 | 35 | 1300 | 592 | 60 | 203 | 1016 |
| 926 | 327 | 322 | 203 | 19 x 10 | 892 | 530 | 35 | 1484 | 667 | 75 | 229 | 1146 |
| 929 | 359 | 354 | 203 | 22 x 11 | 892 | 594 | 35 | 1529 | 749 | 80 | 241 | 1283 |

AC15075A

RBO, RBA, & RBW, Arr. 1 & 9, Class 22





SIX 'BH' DIA. BASE HOLES (EIGHT HOLES ON 'DBD') FOUNDATION PLAN

NOTES:

- Outlet flanges punched per drawing AC15146 except 'DBD' is punched per foundation plan. 'DBD' "punched" outlet is per drawing AC15392.
- CW rotation is shown. CCW rotation is similar but opposite.
 Arrg. 9 motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9.
- 4. Optional flanged inlet per drawing AC15143.5. Use dimension 'KB' for 'DBD'.

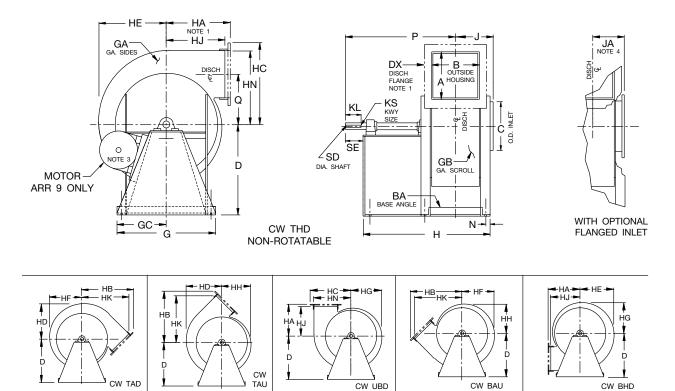
| FAN SIZE | Α | АН | В | ВА | вн | С | DA | DB | DC | DD | DE | DF | DG | DX |
|-------------|-------|------|------|-----------|----|-------|------|------|------|------|------|------|-------|----|
| 933 | 800 | 657 | 711 | 76 x 102 | 21 | 838 | 1092 | 1092 | 1092 | 1143 | 1194 | 1257 | 1334 | 64 |
| 937 | 894 | 730 | 800 | 76 x 102 | 21 | 940 | 1216 | 1216 | 1216 | 1283 | 1346 | 1416 | 1486 | 64 |
| 941 | 989 | 829 | 884 | 89 x 127 | 21 | 1041 | 1340 | 1340 | 1340 | 1403 | 1480 | 1549 | 1632 | 64 |
| 945 | 1086 | 902 | 970 | 102 x 152 | 21 | 1143 | 1499 | 1499 | 1499 | 1575 | 1651 | 1727 | 1829 | 76 |
| 949 | 1184 | 886 | 1054 | 102 x 152 | 21 | 1245 | 1626 | 1626 | 1626 | 1702 | 1772 | 1880 | 2032 | 76 |
| 954 | 1299 | 957 | 1156 | 102 x 152 | 21 | 1388 | 1784 | 1784 | 1784 | 1867 | 1956 | 2057 | 2184 | 76 |
| 960 | 1///8 | 1065 | 1280 | 102 v 152 | 21 | 15/10 | 1081 | 1081 | 1081 | 2076 | 2172 | 2286 | 2/138 | 76 |

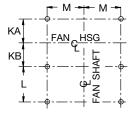
| FAN SIZE | FR (ARR. 9) | G | GA | GB | GC | Н | НА | НВ | НС | HD | HE | HF | HG | НН | HP |
|-------------|----------------|------|----|----|------|------|------|------|------|------|------|------|------|------|------|
| 933 | 250M | 1372 | 5 | 5 | 686 | 1819 | 927 | 1586 | 1314 | 1195 | 1140 | 1084 | 1029 | 973 | 1353 |
| 937 | 250M | 1524 | 6 | 5 | 762 | 1908 | 1035 | 1767 | 1464 | 1338 | 1276 | 1214 | 1153 | 1091 | 1502 |
| 941 | 250M | 1664 | 6 | 5 | 832 | 2043 | 1232 | 2013 | 1613 | 1481 | 1413 | 1345 | 1276 | 1208 | 1676 |
| 945 | 250M | 1854 | 6 | 5 | 927 | 2180 | 1265 | 2151 | 1775 | 1624 | 1549 | 1475 | 1400 | 1326 | 1851 |
| 949 | 250M | 2197 | 6 | 6 | 1099 | 2264 | 1378 | 2340 | 1930 | 1772 | 1691 | 1608 | 1527 | 1445 | 2007 |
| 954 | 250M | 2400 | 8 | 8 | 1200 | 2367 | 1505 | 2553 | 2103 | 1938 | 1849 | 1760 | 1672 | 1583 | 2180 |
| 960 | 250M | 2664 | 8 | 8 | 1332 | 2500 | 1681 | 2846 | 2343 | 2167 | 2067 | 1967 | 1867 | 1767 | 2419 |

| FAN SIZE | J | JA | KA | КВ | KL | KS | L | M | N | Р | Q | SD | SE | IMPELLER DIAMETER |
|-------------|-----|-----|-----|-----|----|---------|-----|------|----|------|------|-----|-----|----------------------|
| 933 | 464 | 489 | 416 | 410 | 8 | 22 x 11 | 892 | 648 | 48 | 1604 | 851 | 87 | 241 | 1461 |
| 937 | 508 | 533 | 461 | 454 | 8 | 22 x 11 | 892 | 724 | 48 | 1648 | 954 | 87 | 241 | 1635 |
| 941 | 576 | 602 | 516 | 510 | 8 | 25 x 13 | 891 | 787 | 60 | 1715 | 1056 | 100 | 241 | 1810 |
| 945 | 645 | 670 | 572 | 565 | 8 | 25 x 13 | 891 | 876 | 73 | 1783 | 1157 | 100 | 241 | 1988 |
| 949 | 686 | 711 | 613 | 607 | 8 | 25 x 13 | 892 | 1048 | 73 | 1826 | 1262 | 113 | 241 | 2165 |
| 954 | 738 | 764 | 665 | 657 | 8 | 32 x 16 | 892 | 1149 | 73 | 1878 | 1378 | 138 | 241 | 2381 |
| 960 | 805 | 830 | 732 | 724 | 8 | 38 x 19 | 892 | 1281 | 73 | 1945 | 1543 | 151 | 241 | 2648 |

AC15064A

RBO, RBA, & RBW, Arr. 1 & 9, Class 32





SIX 'BH' DIA. BASE HOLES (EIGHT HOLES ON 'DBD') FOUNDATION PLAN

NOTES:

- Outlet flanges are optional. Flanges are punched per drawing AC15147.
 CW rotation is shown. CCW rotation is similar but opposite.
 Arrg. 9 motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9.
- 4. Optional flanged inlet per drawing AC15143.
- 5. For 'DBD' (downblast) see drawing AC15072.

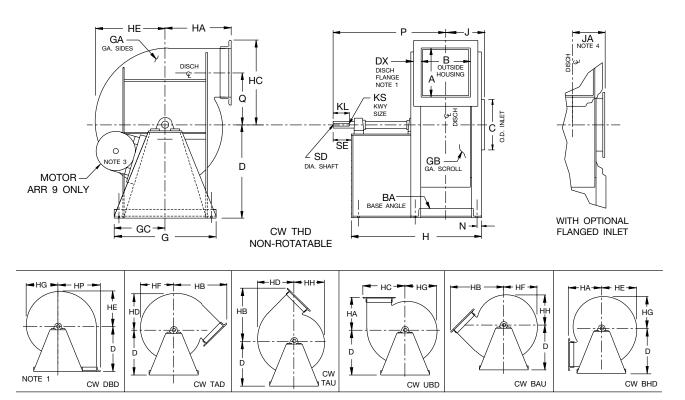
| FAN | ^ | В | ВА | ВН | _ | |) | DX | FR | G | GA | GB | GC |
|------|-----|-----|---------|----|-----|--------|--------|----|----------|-----|----|----|-----|
| SIZE | А | D | DA | ВΠ | C | ARR. 1 | ARR. 9 | DX | (ARR. 9) | G | GA | GB | GC |
| 911 | 272 | 243 | 51 x 51 | 14 | 279 | 476 | 705 | 38 | 160L | 514 | 5 | 5 | 257 |
| 913 | 319 | 286 | 51 x 51 | 14 | 330 | 552 | 813 | 38 | 180L | 591 | 5 | 5 | 295 |
| 915 | 367 | 329 | 64 x 64 | 14 | 381 | 641 | 813 | 38 | 180L | 667 | 5 | 5 | 334 |
| 917 | 416 | 372 | 64 x 64 | 21 | 432 | 718 | 914 | 38 | 200L | 749 | 5 | 5 | 375 |
| 919 | 462 | 413 | 64 x 64 | 21 | 483 | 794 | 1048 | 51 | 225M | 794 | 5 | 5 | 397 |

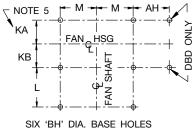
| FAN | H | 1 | НА | НВ | НС | HD | HE | HE | HG | нн | HJ | нк | HN | | JA |
|------|--------|--------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| SIZE | ARR. 1 | ARR. 9 | ПА | ПБ | пС | עח | nc . | nr | пG | nn | ПЭ | пк | ПИ | J | JA |
| 911 | 722 | 1024 | 343 | 567 | 457 | 402 | 384 | 367 | 349 | 332 | 330 | 530 | 419 | 178 | 216 |
| 913 | 797 | 1111 | 403 | 664 | 533 | 475 | 454 | 433 | 413 | 392 | 391 | 627 | 495 | 198 | 236 |
| 915 | 973 | 1199 | 464 | 759 | 608 | 546 | 522 | 499 | 475 | 451 | 451 | 722 | 570 | 233 | 259 |
| 917 | 1067 | 1280 | 524 | 856 | 684 | 619 | 592 | 565 | 538 | 511 | 511 | 819 | 646 | 254 | 279 |
| 919 | 1172 | 1461 | 583 | 957 | 770 | 689 | 659 | 629 | 598 | 568 | 570 | 913 | 719 | 275 | 300 |

| FAN | V | KL | KS | | | М | N | F | | Q | SD | SE | IMPELLER |
|------|-----|-----|---------|--------|--------|-----|----|--------|--------|-----|----|-----|----------|
| SIZE | 2 | KL | N3 | ARR. 1 | ARR. 9 | IVI | N | ARR. 1 | ARR. 9 | y | 3D | SE | DIAMETER |
| 911 | 156 | 137 | 13 x 6 | 360 | 662 | 232 | 22 | 697 | 998 | 284 | 50 | 152 | 486 |
| 913 | 176 | 152 | 13 x 6 | 394 | 708 | 270 | 22 | 770 | 1084 | 337 | 50 | 171 | 575 |
| 915 | 205 | 152 | 16 x 8 | 500 | 725 | 302 | 29 | 911 | 1137 | 387 | 60 | 171 | 664 |
| 917 | 226 | 168 | 16 x 8 | 552 | 765 | 343 | 29 | 1007 | 1219 | 438 | 60 | 194 | 753 |
| 919 | 246 | 203 | 19 x 10 | 616 | 905 | 365 | 29 | 1129 | 1418 | 489 | 75 | 232 | 838 |

AC15065

RBA, RBO, RBP, & RBW, Arr. 1 & 9, Class 32





(EIGHT HOLES ON 'DBD') FOUNDATION PLAN

- Outlet flanges punched per drawing AC15147 except 'DBD' is punched per foundation plan. 'DBD' "punched" outlet is per drawing AC15393.
 CW rotation is shown. CCW rotation is similar but opposite.
 Arrg. 9 motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9.

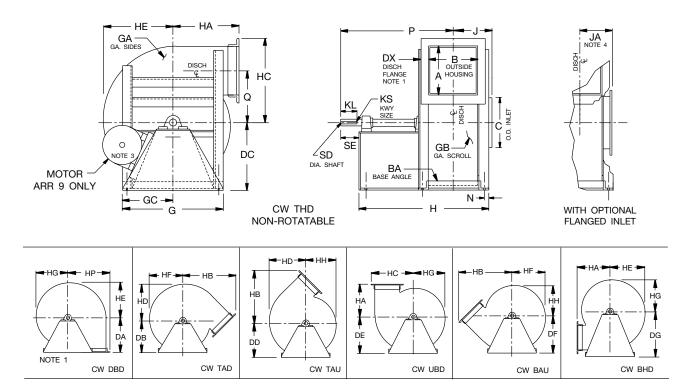
- 4. Optional flanged inlet per drawing AC15143.
- 5. Use dimension 'KB' for 'DBD'.

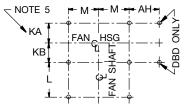
| FAN | | ALI | | BA | DU | _ | | | DX | FR | _ | CA | C.D. |
|------|-----|-----|-----|---------|----|-----|--------|--------|----|----------|------|----|------|
| SIZE | A | AH | Δ | DA | ВН | | ARR. 1 | ARR. 9 | DX | (ARR. 9) | G | GA | GB |
| 921 | 511 | 402 | 456 | 76 x 76 | 21 | 533 | 876 | 1048 | 51 | 225M | 946 | 5 | 5 |
| 923 | 559 | 440 | 502 | 76 x 76 | 21 | 584 | 953 | 1048 | 51 | 225M | 1022 | 6 | 5 |
| 926 | 633 | 494 | 565 | 76 x 76 | 21 | 660 | 1060 | 1060 | 64 | 250M | 1137 | 6 | 6 |
| 929 | 706 | 549 | 629 | 76 x 76 | 21 | 737 | 1181 | 1181 | 64 | 250M | 1264 | 6 | 6 |

| FAN | GC | | Н | HA | шр | но | шр | nue: | nue: | HG | ш | ШΒ | | 10 | KA |
|------|-----|--------|--------|-----|------|------|------|------|------|-----|-----|------|-----|-----|-----|
| SIZE | GC | ARR. 1 | ARR. 9 | ПА | ПВ | пС | עח | ne . | nr | П | пп | пР | , | JA | NA |
| 921 | 473 | 1261 | 1524 | 597 | 1021 | 846 | 760 | 725 | 691 | 656 | 621 | 871 | 310 | 335 | 275 |
| 923 | 511 | 1346 | 1572 | 673 | 1129 | 922 | 833 | 794 | 756 | 716 | 678 | 948 | 334 | 359 | 298 |
| 926 | 568 | 1435 | 1635 | 737 | 1262 | 1046 | 940 | 897 | 854 | 811 | 768 | 1059 | 365 | 391 | 330 |
| 929 | 632 | 1524 | 1699 | 806 | 1395 | 1165 | 1053 | 1005 | 956 | 908 | 859 | 1178 | 397 | 422 | 362 |

| FAN | v | VI. | V.C | | | B.4 | N | | | 0 | SD | er. | IMPELLER |
|------|-----|-----|---------|--------|--------|-----|----|--------|--------|-----|-----|-----|----------|
| SIZE | Λ. | KL | KS | ARR. 1 | ARR. 9 | M | N | ARR. 1 | ARR. 9 | Q | שפ | SE | DIAMETER |
| 921 | 270 | 203 | 19 x 10 | 640 | 903 | 435 | 35 | 1183 | 1446 | 540 | 75 | 232 | 927 |
| 923 | 292 | 203 | 22 x 11 | 679 | 905 | 473 | 35 | 1248 | 1473 | 592 | 90 | 235 | 1016 |
| 926 | 324 | 203 | 22 x 11 | 705 | 905 | 530 | 35 | 1305 | 1505 | 665 | 90 | 235 | 1146 |
| 929 | 356 | 203 | 25 x 13 | 730 | 905 | 594 | 35 | 1365 | 1540 | 749 | 100 | 238 | 1283 |

RBA, RBR, & RBW, Arr. 1 & 9, Class 32





SIX 'BH' DIA. BASE HOLES (EIGHT HOLES ON 'DBD') FOUNDATION PLAN

NOTES:

- Outlet flanges punched per drawing AC15147 except 'DBD' is punched per foundation plan. 'DBD' "punched" outlet is per drawing AC15393.
 CW rotation is shown. CCW rotation is similar but opposite.
 Arrg. 9 motor location is 'left' for 'CW' rotation and 'right' for 'CCW' rotation. Dimension 'FR' is Max. Motor Frame on Arr. 9

- Optional flanged inlet per drawing AC15143.
- Use dimension 'KB' for 'DBD'.

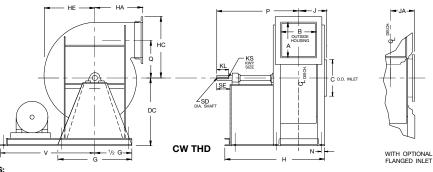
| FAN SIZE | Α | АН | В | ВА | вн | С | DA | DB | DC | DD | DE | DF | DG | DX |
|-------------|------|-----|------|-----------|----|------|------|------|------|------|------|------|------|----|
| 933 | 803 | 659 | 715 | 76 x 102 | 21 | 838 | 1092 | 1092 | 1092 | 1143 | 1194 | 1257 | 1334 | 64 |
| 937 | 897 | 732 | 800 | 76 x 102 | 21 | 940 | 1216 | 1216 | 1216 | 1283 | 1346 | 1416 | 1486 | 64 |
| 941 | 992 | 830 | 884 | 89 x 127 | 21 | 1041 | 1340 | 1340 | 1340 | 1403 | 1480 | 1549 | 1632 | 64 |
| 945 | 1089 | 903 | 970 | 102 x 152 | 21 | 1143 | 1499 | 1499 | 1499 | 1575 | 1651 | 1727 | 1829 | 76 |
| 949 | 1184 | 886 | 1054 | 102 x 152 | 21 | 1245 | 1626 | 1626 | 1626 | 1702 | 1772 | 1880 | 2032 | 76 |

| FAN SIZE | FR (ARR. 9) | G | GA | GB | Н | НА | НВ | НС | HD | HE | HF | HG | НН | НР |
|-------------|----------------|------|----|----|------|------|------|------|------|------|------|------|------|------|
| 933 | 250M | 1372 | 6 | 6 | 1822 | 927 | 1588 | 1316 | 1197 | 1141 | 1086 | 1030 | 975 | 1354 |
| 937 | 250M | 1524 | 6 | 6 | 1908 | 1035 | 1769 | 1465 | 1340 | 1278 | 1216 | 1154 | 1092 | 1503 |
| 941 | 250M | 1664 | 6 | 6 | 2045 | 1232 | 2013 | 1614 | 1483 | 1415 | 1346 | 1278 | 1210 | 1678 |
| 945 | 250M | 1854 | 6 | 6 | 2181 | 1265 | 2151 | 1776 | 1626 | 1551 | 1477 | 1402 | 1327 | 1853 |
| 949 | 250M | 2197 | 6 | 6 | 2264 | 1378 | 2340 | 1930 | 1772 | 1691 | 1608 | 1527 | 1445 | 2007 |

| FAN SIZE | J | JA | KA | КВ | KS | L | М | N | Р | Q | SD | SE | IMPELLER DIAMETER |
|-------------|-----|-----|-----|-----|---------|-----|------|----|------|------|-----|-----|----------------------|
| 933 | 465 | 490 | 418 | 411 | 25 x 13 | 892 | 648 | 48 | 1595 | 851 | 100 | 238 | 1461 |
| 937 | 508 | 533 | 461 | 454 | 32 x 16 | 892 | 724 | 48 | 1642 | 954 | 125 | 241 | 1635 |
| 941 | 578 | 603 | 516 | 510 | 32 x 16 | 892 | 787 | 60 | 1710 | 1056 | 125 | 241 | 1810 |
| 945 | 646 | 672 | 572 | 565 | 32 x 16 | 892 | 876 | 73 | 1778 | 1157 | 125 | 241 | 1988 |
| 949 | 687 | 713 | 613 | 607 | 32 x 16 | 892 | 1048 | 73 | 1819 | 1262 | 140 | 241 | 2165 |

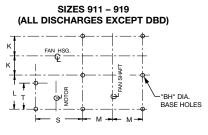
AC15067A

Arr. 9F, Class 32

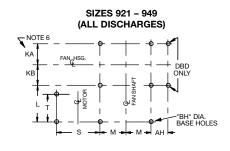


CW DBD (NOTE

- NOTES:
 1. Clockwise (CW) rotation shown. Counterclockwise (CCW) rotation is similar but opposite.
 2. Sizes 911 through 919 are rotatable. Sizes 921 through 949 are non-rotatable.
 3. Optional flanged inlet is shown. See page 38 for dimensional data.
 4. Punched outlet flange is optional on sizes 911 through 919 and standard on sizes 921 through 949. See page 38 for dimensional data.
 5. Standard Arr. 9F motor location is on the left for CW rotation units, and on the right for CCW rotation units (unless otherwise specified.)
 6. Use dimension KB in place of KA for DBD.







| FAN | Α | AH | В | вн | C | DA | DB | DC | DD | DE | DF | DG | G | | Н | HA |
|------|------|-----|------|----|------|------|------|------|------|------|------|------|------|------|--------|------|
| SIZE | Α | АП | Ь | ВΠ | | DA | DB | DC | טט | DE | DF | DG | G | DBD | OTHERS | ПА |
| 911 | 272 | 216 | 243 | 14 | 279 | 476 | 476 | 476 | 476 | 476 | 476 | 476 | 514 | 979 | 989 | 343 |
| 913 | 319 | 254 | 286 | 14 | 330 | 552 | 552 | 552 | 552 | 552 | 552 | 552 | 591 | 1084 | 1094 | 403 |
| 915 | 367 | 303 | 329 | 14 | 381 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 667 | 1154 | 1164 | 464 |
| 917 | 416 | 338 | 372 | 21 | 432 | 718 | 718 | 718 | 718 | 718 | 718 | 718 | 749 | 1237 | 1246 | 524 |
| 919 | 462 | 389 | 413 | 21 | 483 | 794 | 794 | 794 | 794 | 794 | 794 | 794 | 794 | 1462 | 1472 | 583 |
| 921 | 511 | 402 | 456 | 21 | 533 | 876 | 876 | 876 | 876 | 876 | 876 | 876 | 946 | 1537 | 1537 | 597 |
| 923 | 559 | 440 | 502 | 21 | 584 | 953 | 953 | 953 | 953 | 953 | 953 | 953 | 1022 | 1726 | 1726 | 673 |
| 926 | 633 | 494 | 565 | 21 | 660 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1060 | 1137 | 1789 | 1789 | 737 |
| 929 | 706 | 549 | 629 | 21 | 737 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1264 | 1853 | 1853 | 806 |
| 933 | 803 | 659 | 715 | 21 | 838 | 1092 | 1092 | 1092 | 1143 | 1194 | 1257 | 1334 | 1372 | 1989 | 1989 | 927 |
| 937 | 897 | 732 | 800 | 21 | 940 | 1216 | 1216 | 1216 | 1283 | 1346 | 1416 | 1486 | 1524 | 2075 | 2075 | 1035 |
| 941 | 992 | 830 | 884 | 21 | 1041 | 1340 | 1340 | 1340 | 1403 | 1480 | 1549 | 1632 | 1664 | 2297 | 2297 | 1232 |
| 945 | 1089 | 903 | 970 | 21 | 1143 | 1499 | 1499 | 1499 | 1575 | 1651 | 1727 | 1829 | 1854 | 2408 | 2408 | 1265 |
| 949 | 1184 | 886 | 1054 | 21 | 1245 | 1626 | 1626 | 1626 | 1702 | 1772 | 1880 | 2032 | 2197 | 2491 | 2491 | 1378 |

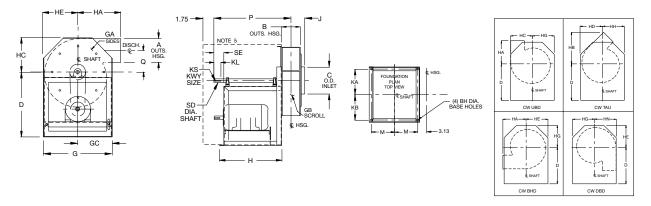
| FAN SIZE | НВ | НС | HD | HE | HF | HG | НН | HP | J | JA | K | KA | КВ | KL | KS |
|-------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|---------|
| 911 | 567 | 457 | 402 | 384 | 367 | 349 | 332 | 470 | 178 | 216 | 156 | _ | _ | 137 | 13 x 6 |
| 913 | 664 | 533 | 475 | 454 | 433 | 413 | 392 | 546 | 198 | 236 | 176 | _ | _ | 152 | 13 x 6 |
| 915 | 759 | 608 | 546 | 522 | 499 | 475 | 451 | 633 | 233 | 259 | 205 | _ | _ | 152 | 16 x 8 |
| 917 | 856 | 684 | 619 | 592 | 565 | 538 | 511 | 710 | 254 | 279 | 226 | _ | _ | 168 | 16 x 8 |
| 919 | 957 | 770 | 689 | 659 | 629 | 598 | 568 | 783 | 275 | 300 | 246 | _ | _ | 203 | 19 x 10 |
| 921 | 1021 | 846 | 760 | 725 | 691 | 656 | 621 | 871 | 310 | 335 | _ | 275 | 270 | 203 | 19 x 10 |
| 923 | 1129 | 922 | 833 | 794 | 756 | 716 | 678 | 948 | 334 | 359 | _ | 298 | 292 | 235 | 22 x 11 |
| 926 | 1261 | 1046 | 940 | 897 | 854 | 811 | 768 | 1059 | 365 | 391 | _ | 330 | 324 | 235 | 22 x 11 |
| 929 | 1394 | 1165 | 1053 | 1005 | 956 | 908 | 859 | 1178 | 397 | 422 | _ | 362 | 356 | 235 | 25 x 13 |
| 933 | 1586 | 1316 | 1197 | 1141 | 1086 | 1030 | 975 | 1354 | 465 | 490 | _ | 418 | 411 | 235 | 25 x 13 |
| 937 | 1769 | 1465 | 1340 | 1278 | 1216 | 1154 | 1092 | 1503 | 508 | 533 | _ | 461 | 454 | 235 | 32 x 16 |
| 941 | 2013 | 1614 | 1483 | 1415 | 1346 | 1276 | 1210 | 1678 | 578 | 603 | _ | 516 | 510 | 235 | 32 x 16 |
| 945 | 2153 | 1778 | 1626 | 1551 | 1477 | 1402 | 1327 | 1854 | 646 | 672 | _ | 572 | 565 | 235 | 32 x 16 |
| 949 | 2340 | 1930 | 1772 | 1691 | 1608 | 1527 | 1445 | 2007 | 687 | 713 | _ | 613 | 607 | 235 | 32 x 16 |

| FAN | | L | М | N | | P | Q | S | SD | SE | | T | | ٧ | MAX. MOTOR |
|------|------|--------|------|----|------|--------|------|------|-----|------------|------|--------|------|--------|------------|
| SIZE | DBD | OTHERS | IVI | N | DBD | OTHERS | Q | 0 | שפ | 5 <u>L</u> | DBD | OTHERS | DBD | OTHERS | FRAME SIZE |
| 911 | 591 | 594 | 232 | 22 | 926 | 930 | 284 | 775 | 49 | 152 | 533 | 537 | 1041 | 1041 | 180L |
| 913 | 654 | 654 | 270 | 22 | 1026 | 1030 | 337 | 883 | 49 | 171 | 597 | 597 | 1187 | 1187 | 200L |
| 915 | 654 | 654 | 302 | 29 | 1060 | 1065 | 387 | 889 | 62 | 171 | 591 | 591 | 1226 | 1226 | 200L |
| 917 | 695 | 695 | 343 | 29 | 1145 | 1149 | 438 | 994 | 62 | 194 | 632 | 632 | 1372 | 1372 | 225M |
| 919 | 876 | 876 | 365 | 29 | 1384 | 1389 | 489 | 1124 | 75 | 232 | 813 | 813 | 1524 | 1524 | 250M |
| 921 | 876 | 876 | 435 | 35 | 1419 | 1419 | 540 | 1130 | 75 | 232 | 806 | 806 | 1600 | 1600 | 250M |
| 923 | 1019 | 1019 | 473 | 35 | 1619 | 1619 | 592 | 1219 | 87 | 267 | 949 | 949 | 1727 | 1727 | 280M |
| 926 | 1019 | 1019 | 530 | 35 | 1651 | 1651 | 667 | 1219 | 87 | 267 | 949 | 949 | 1784 | 1784 | 280M |
| 929 | 1019 | 1019 | 594 | 35 | 1686 | 1686 | 749 | 1219 | 100 | 270 | 949 | 949 | 1848 | 1848 | 280M |
| 933 | 1019 | 1019 | 648 | 48 | 1754 | 1754 | 851 | 1219 | 100 | 270 | 937 | 937 | 1902 | 1902 | 280M |
| 937 | 1019 | 1019 | 724 | 48 | 1800 | 1800 | 954 | 1219 | 125 | 273 | 937 | 937 | 1978 | 1978 | 280M |
| 941 | 1105 | 1105 | 787 | 60 | 1954 | 1954 | 1056 | 1226 | 125 | 273 | 1010 | 1010 | 2048 | 2048 | 280M |
| 945 | 1080 | 1080 | 876 | 73 | 1997 | 1997 | 1156 | 1232 | 125 | 273 | 972 | 972 | 2143 | 2143 | 280M |
| 949 | 1080 | 1080 | 1048 | 73 | 2038 | 2038 | 1261 | 1232 | 138 | 273 | 972 | 972 | 2315 | 2315 | 280M |

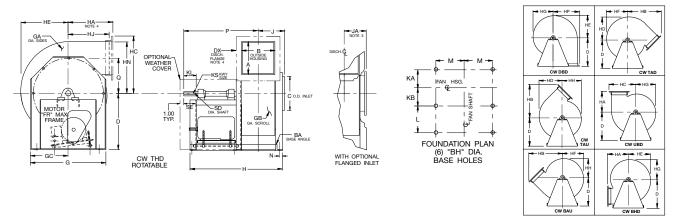
AC15072F AC15136A AC15137A

Arrangement 10

Size 905



Sizes 907 - 919



NOTES:

- Clockwise (CW) rotation shown, counterclockwise (CCW) rotation is similar but opposite.
- All sizes are rotatable.

 Optional flanged inlet shown on sizes 907 through 919. An optional flanged inlet is available on all Arrangement 10 sizes, including size 905. See page 38 for dimensional data.

 Punched outlet flange is optional on all sizes. See page 38 for dimensional data.
- Weather cover is optional.
- 6. All Arrangement 10 fans are available as Class 22 only.

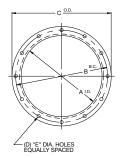
| FAN SIZE | Α | В | вн | С | D | G | GC | Н | НА | НВ | НС | HD | HE | HF | HG | НН |
|-------------|-----|-----|----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 905 | 124 | 114 | 11 | 127 | 368 | 406 | 203 | 340 | 229 | 298 | 203 | 203 | 203 | _ | 203 | 203 |
| 907 | 173 | 154 | 11 | 178 | 448 | 406 | 203 | 727 | 243 | 384 | 300 | 257 | 246 | 235 | 224 | 213 |
| 909 | 219 | 195 | 11 | 229 | 492 | 483 | 241 | 813 | 283 | 465 | 375 | 329 | 314 | 300 | 286 | 272 |
| 911 | 268 | 240 | 14 | 279 | 556 | 635 | 318 | 991 | 362 | 578 | 456 | 400 | 383 | 365 | 348 | 330 |
| 913 | 316 | 283 | 14 | 337 | 648 | 692 | 346 | 1034 | 403 | 662 | 532 | 473 | 452 | 432 | 411 | 391 |
| 915 | 363 | 325 | 14 | 387 | 775 | 838 | 419 | 1146 | 464 | 757 | 607 | 546 | 521 | 497 | 473 | 449 |
| 917 | 413 | 368 | 14 | 438 | 699 | 918 | 459 | 1189 | 524 | 854 | 683 | 617 | 591 | 564 | 537 | 510 |
| 919 | 459 | 410 | 14 | 489 | 762 | 988 | 494 | 1319 | 583 | 956 | 768 | 687 | 657 | 627 | 597 | 567 |

| FAN SIZE | HN | J | JA | KA | КВ | KL | KS | L | М | N | Р | Q | SD | SE | MAX. MTR. |
|-------------|-----|-----|-----|-----|-----|-----|--------|-----|-----|----|------|-----|----|-----|--------------|
| 905 | 203 | 99 | _ | 171 | 171 | 51 | 6 x 3 | _ | 152 | _ | 435 | 130 | 25 | 70 | 90L |
| 907 | 268 | 119 | 145 | 103 | 125 | 51 | 10 x 5 | 470 | 186 | 16 | 630 | 183 | 35 | 70 | 112M |
| 909 | 343 | 140 | 165 | 124 | 146 | 67 | 10 x 5 | 514 | 224 | 16 | 713 | 233 | 35 | 86 | 132M |
| 911 | 418 | 175 | 213 | 152 | 171 | 83 | 10 x 5 | 629 | 276 | 22 | 870 | 284 | 40 | 102 | 160L |
| 913 | 494 | 195 | 233 | 173 | 208 | 83 | 10 x 5 | 607 | 283 | 22 | 892 | 337 | 40 | 102 | 160L |
| 915 | 568 | 230 | 256 | 202 | 230 | 92 | 13 x 6 | 664 | 308 | 29 | 988 | 387 | 55 | 118 | 180L |
| 917 | 645 | 251 | 276 | 222 | 265 | 92 | 13 x 6 | 645 | 314 | 29 | 1011 | 438 | 55 | 118 | 180L |
| 919 | 718 | 272 | 297 | 243 | 286 | 114 | 13 x 6 | 734 | 359 | 29 | 1137 | 489 | 55 | 133 | 200L |

AC10726D

Inlet & Outlet Flanges

Inlet Flange

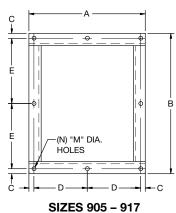


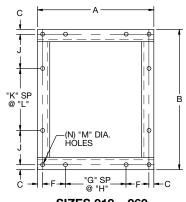
| FAN SIZE | Α | В | С | D | Е |
|-------------|-----|-----|-----|----|----|
| 905 | 129 | 160 | 179 | 6 | 7 |
| 907 | 181 | 216 | 238 | 6 | 10 |
| 909 | 232 | 270 | 295 | 6 | 11 |
| 911 | 283 | 324 | 353 | 6 | 11 |
| 913 | 334 | 376 | 408 | 12 | 11 |
| 915 | 384 | 427 | 459 | 12 | 11 |
| 917 | 435 | 478 | 513 | 12 | 11 |
| 919 | 486 | 529 | 564 | 12 | 11 |
| 921 | 537 | 579 | 614 | 16 | 14 |
| 923 | 588 | 630 | 665 | 16 | 14 |

| FAN SIZE | Α | В | С | D | Е |
|-------------|------|------|------|----|----|
| 926 | 664 | 724 | 765 | 16 | 14 |
| 929 | 740 | 800 | 842 | 16 | 14 |
| 933 | 842 | 902 | 943 | 24 | 14 |
| 937 | 943 | 1003 | 1045 | 24 | 14 |
| 941 | 1045 | 1105 | 1146 | 32 | 14 |
| 945 | 1146 | 1207 | 1248 | 32 | 14 |
| 949 | 1248 | 1308 | 1350 | 32 | 14 |
| 954 | 1388 | 1457 | 1515 | 32 | 21 |
| 960 | 1540 | 1610 | 1667 | 32 | 21 |

AC15143B

Outlet Flange





SIZES 919 - 960

Class 22

| FAN SIZE | Α | В | С | D | Е | F | G | Н | J | K | L | M | N | ANGLE SIZE |
|-------------|------|------|----|-----|-----|-----|-----|-----|-----|---|-----|----|----|---------------|
| 905 | 178 | 187 | 13 | _ | _ | _ | _ | _ | _ | _ | _ | 10 | 4 | 32 x 32 |
| 907 | 217 | 236 | 13 | _ | _ | _ | l — | _ | l — | _ | l — | 10 | 4 | 32 x 32 |
| 909 | 259 | 283 | 13 | 117 | 129 | _ | l — | _ | l — | _ | l — | 10 | 8 | 32 x 32 |
| 911 | 316 | 344 | 16 | 142 | 156 | _ | _ | _ | _ | _ | _ | 11 | 8 | 38 x 38 |
| 913 | 359 | 392 | 16 | 164 | 180 | _ | — | _ | l — | _ | — | 11 | 8 | 38 x 38 |
| 915 | 402 | 440 | 16 | 185 | 204 | _ | _ | _ | _ | _ | _ | 11 | 8 | 38 x 38 |
| 917 | 445 | 489 | 16 | 207 | 229 | _ | _ | _ | _ | _ | _ | 11 | 8 | 38 x 38 |
| 919 | 511 | 560 | 22 | _ | _ | 156 | 1 | 156 | 169 | 1 | 178 | 14 | 12 | 51 x 51 |
| 921 | 554 | 610 | 22 | _ | _ | 170 | 1 | 170 | 189 | 1 | 187 | 14 | 12 | 51 x 51 |
| 923 | 600 | 660 | 22 | _ | _ | 186 | 1 | 184 | 205 | 1 | 207 | 14 | 12 | 51 x 51 |
| 926 | 689 | 757 | 29 | _ | _ | 211 | 1 | 210 | 176 | 2 | 175 | 14 | 14 | 64 x 64 |
| 929 | 753 | 830 | 29 | _ | _ | 232 | 1 | 232 | 193 | 2 | 194 | 14 | 14 | 64 x 64 |
| 933 | 838 | 927 | 29 | _ | _ | 195 | 2 | 195 | 219 | 2 | 216 | 14 | 16 | 64 x 64 |
| 937 | 927 | 1021 | 29 | _ | _ | 217 | 2 | 217 | 241 | 2 | 241 | 14 | 16 | 64 x 64 |
| 941 | 1011 | 1116 | 29 | _ | _ | 239 | 2 | 238 | 282 | 2 | 248 | 14 | 16 | 64 x 64 |
| 945 | 1122 | 1238 | 35 | _ | _ | 212 | 3 | 210 | 260 | 3 | 216 | 14 | 20 | 76 x 76 |
| 949 | 1207 | 1337 | 35 | _ | _ | 226 | 3 | 229 | 272 | 3 | 241 | 14 | 20 | 76 x 76 |
| 954 | 1308 | 1451 | 35 | _ | _ | 248 | 3 | 248 | 233 | 4 | 229 | 14 | 22 | 76 x 76 |
| 960 | 1441 | 1600 | 35 | _ | _ | 276 | 3 | 273 | 257 | 4 | 254 | 14 | 22 | 76 x 76 |

AC15146C Class 32

| FAN SIZE | Α | В | С | D | Е | F | G | Н | J | K | L | М | N | ANGLE SIZE |
|-------------|------|------|----|-----|-----|-----|---|-----|-----|---|-----|----|----|---------------|
| 911 | 319 | 348 | 16 | 144 | 158 | _ | _ | _ | _ | _ | _ | 11 | 8 | 38 x 38 |
| 913 | 362 | 395 | 16 | 165 | 182 | _ | _ | l — | - | _ | l — | 11 | 8 | 38 x 38 |
| 915 | 405 | 443 | 16 | 186 | 205 | _ | _ | _ | _ | _ | _ | 11 | 8 | 38 x 38 |
| 917 | 448 | 492 | 16 | 208 | 230 | — | _ | — | — | _ | — | 11 | 8 | 38 x 38 |
| 919 | 514 | 564 | 22 | _ | _ | 157 | 1 | 156 | 169 | 1 | 181 | 14 | 12 | 51 x 51 |
| 921 | 557 | 613 | 22 | _ | _ | 171 | 1 | 171 | 189 | 1 | 191 | 14 | 12 | 51 x 51 |
| 923 | 603 | 660 | 22 | _ | _ | 186 | 1 | 187 | 205 | 1 | 207 | 14 | 12 | 51 x 51 |
| 926 | 692 | 760 | 29 | _ | _ | 211 | 1 | 213 | 176 | 2 | 176 | 14 | 14 | 64 x 64 |
| 929 | 756 | 833 | 29 | _ | _ | 232 | 1 | 235 | 195 | 2 | 194 | 14 | 14 | 64 x 64 |
| 933 | 842 | 930 | 29 | _ | _ | 195 | 2 | 197 | 219 | 2 | 217 | 14 | 16 | 64 x 64 |
| 937 | 927 | 1024 | 29 | _ | _ | 217 | 2 | 217 | 242 | 2 | 241 | 14 | 16 | 64 x 64 |
| 941 | 1011 | 1119 | 29 | _ | _ | 236 | 2 | 241 | 283 | 2 | 248 | 14 | 16 | 64 x 64 |
| 945 | 1122 | 1241 | 35 | _ | _ | 210 | 3 | 211 | 252 | 3 | 222 | 14 | 20 | 76 x 76 |
| 949 | 1207 | 1337 | 35 | _ | _ | 225 | 3 | 229 | 252 | 3 | 254 | 14 | 20 | 76 x 76 |

AC15147



Fans shall be Model RBO/RBR/RBW/RBA/RBP Industrial Fans, as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Fans shall be tested in accordance with AMCA 210 test code for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels.

RBO, RBR, RBW and RBA fans shall be licensed to bear the AMCA certified ratings seal for air and fan efficiency grade (FEG).

HOUSING — Housings shall be continuously welded heavy gauge steel, suitably braced to prevent pulsation. Housings with lock seams or partially welded construction are not acceptable. Class 22 housings shall be constructed of a minimum 3 mm through 8 mm steel. Class 32 housings shall be constructed of at least 5 mm through 8 mm steel. Units having impeller diameters of 838 mm (size 919) and smaller shall be built with adjustable discharge housings which can be field rotated to any of the eight standard positions. Fans with impeller diameters larger than 838 mm shall be built with a fixed discharge housing and have a flanged type discharge to provide unit rigidity.

IMPELLER — All class 22 fan impellers shall be constructed of a minimum 3 mm through 19 mm thick steel. Class 32 fan impellers shall be constructed of a minimum 5 mm through 19 mm steel. The spider hubs for RBO impellers shall be fabricated steel or cast steel material. All industrial fan impellers shall be continuously welded.

SHAFT — Shafts shall be AISI 1040 or 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed.

BEARINGS — Bearings shall be heavy duty, grease lubricated, anti-friction ball or roller, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.

V-BELT DRIVE — Fan and motor sheaves shall be cast iron fixed pitched drives for service over 7.5 kW. Small drives may use variable pitch cast iron motor sheaves. The minimum belt service factor is 120% for drives through 18.5 kW and 150% over 18.5 kW.

FINISH AND COATING — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant. Aluminum components shall be unpainted.

ACCESSORIES — When specified, accessories such as inlet vanes, outlet dampers, companion inlet and outlet flanges, inlet bells, inlet boxes, shaft guards, and impeller and scroll liners shall be provided by Twin City Fan & Blower to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at the specified operating speed or maximum RPM allowed for the particular construction type. Each impeller shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS

MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | PROPELLER WALL FANS | PROPELLER ROOF VENTILATORS

CENTRIFUGAL ROOF & WALL EXHAUSTERS | CEILING VENTILATORS | GRAVITY VENTILATORS | DUCT BLOWERS

RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS

LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCOOLERS | FIBERGLASS FANS | CUSTOM FANS



TWIN CITY FAN & BLOWER WWW.TCF.COM

5959 TRENTON LANE N | MINNEAPOLIS, MN 55442 | PHONE: 763-551-7600 | FAX: 763-551-7601