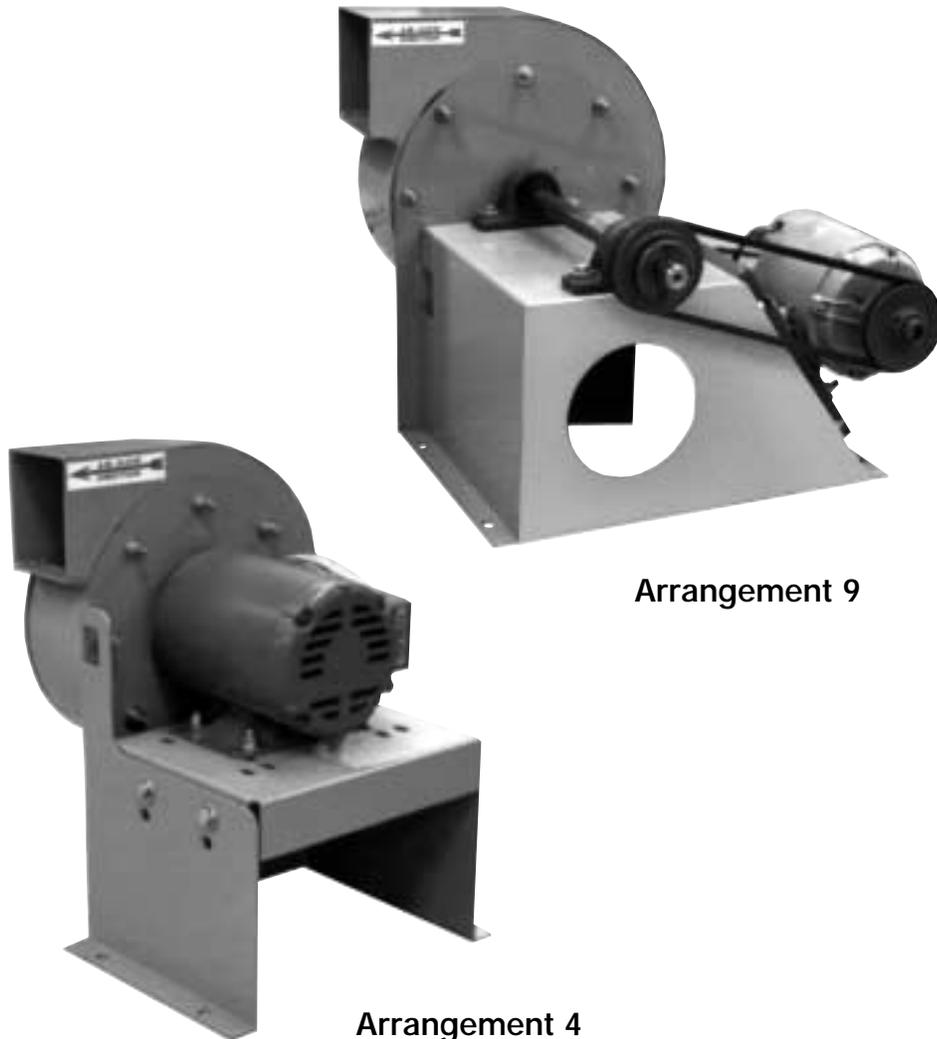




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## ***PRESSURE BLOWER***

*Model PB*



Arrangement 9

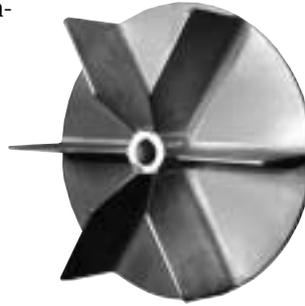
Arrangement 4

# Model PB Pressure Blowers

Pressure blowers provide medium pressure air for cooling, ventilating and exhaust systems handling dust, materials or corrosive fumes.

## Features

- Direct drive or belt driven
- Wheel diameters from 8" through 12"
- Flow capacities to 1275 CFM
- Static pressure to 10" w.g.
- Temperature to 600°F (with modifications)



## Wheel

Cast aluminum wheel furnished as standard. Suitable for air, light dust, and mild chemicals in acidic pH range. For resistance to more severe abrasion, chemicals and high temperatures, specify an aluminum-bronze "Dura" alloy wheel. Fabricated steel and stainless steel wheels are available upon request.

## Accessories

### Weather Cover and Belt Guard

The **weather cover** protects the motor, drives, and bearings from the elements. Available on Arr. 9 fans with fractional horsepower motors only. Weather covers for larger motors require special construction and pricing.

The **belt guard** is available for all belt driven arrangements and sizes. Belt guards are built to fit individual fans. Complete mounting details are required for Arrangement 1 fans.

### Motor Cover

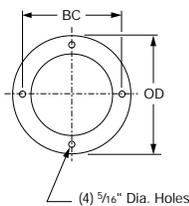
The motor cover protects the motor from the elements. Available on Arr. 4 fans only.

### Drain

1" standard tank spud welded to housing at lowest point.

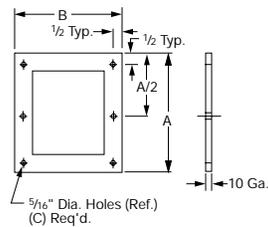
### Flanged Inlet and Outlet

The **flanged inlet** is a circular plate welded flush with standard slip inlet. Holes are provided.



| SIZE  | OD | BC |
|-------|----|----|
| 8A    | 8  | 7  |
| 10 AB | 9  | 8  |
| 12 AB | 9  | 8  |

The **flanged outlet** is welded flush to the outlet. Holes are provided for matching the duct flange.



| SIZE | A                             | B                             | C |
|------|-------------------------------|-------------------------------|---|
| 8A   | 6 <sup>5</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>8</sub> | 4 |
| 10A  | 7 <sup>5</sup> / <sub>8</sub> | 5 <sup>5</sup> / <sub>8</sub> | 4 |
| 10B  | 7 <sup>5</sup> / <sub>8</sub> | 7 <sup>5</sup> / <sub>8</sub> | 4 |
| 12A  | 9                             | 5 <sup>5</sup> / <sub>8</sub> | 6 |
| 12B  | 9                             | 7 <sup>5</sup> / <sub>8</sub> | 6 |

### Shaft Seals

**Elastomeric rotary seal** — Rides against a heavy Teflon wear plate. A spare seal is provided as standard. This seal is suitable for operation up to 300°F.

**Ceramic felt** — Elements are encased between housing drive side and metal retaining plate. Ceramic felt inserts may easily split for field installation and maintenance. This seal is best suited for 301°F to 600°F operation. These seals minimize leakage around shaft opening but are not gas tight.

### Heat Fan

**Belt driven heat fan (Arr. 1 & 9)** includes aluminum-bronze "Dura" wheel and A240 aluminum two-piece heat slinger. Arrangement 9 includes a motor heat shield. Suitable for temperatures to 600°F.

**Direct drive heat fan (Arr. 8)** — Consult factory. Includes aluminum-bronze "Dura" wheel and A240 aluminum two-piece heat slinger. Suitable for temperatures to 600°F.

### Special Alloys

- Stainless steel fan housing and wheel
- Aluminum fan housing and wheel
- "Dura" aluminum-bronze alloy wheel

### Spark resistant construction

To reduce danger of fire or explosion.

Type A — All aluminum fan housing and wheel Arrangements 1, 8 and 9

Type B — Aluminum wheel and nonferrous closure plate about the shaft opening

### Coatings

Special corrosion resistant coatings available upon request.

# Drive Arrangements

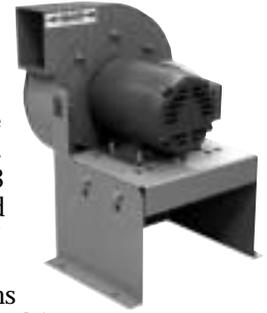
## Arrangement 1

Versatile and rugged V-belt drive arrangement with the motor mounted separate from the fan base. Maximum temperature of standard fan is 300°F. Maximum temperature of heat fan is 600°F\*. Specify AMCA motor position designation (see below) and fan RPM when ordering fan complete with drives and motor.



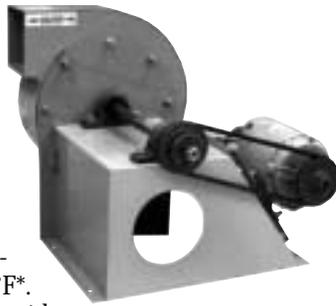
## Arrangement 4

The most compact and least expensive direct drive arrangement with the wheel mounted directly on the motor shaft. Arrangement 4 fans are available in a limited number of models. Minimum motor frame size is 48 for the 8" and 56 for the 10" and 12". Maximum temperature of standard arrangement 4 fan is 180°F. For direct drive heat fans (available in Arrangement 8 only), please consult the factory.



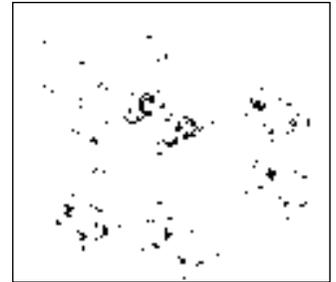
## Arrangement 9

Compact V-belt drive arrangement with the motor mounted on the fan support base. This arrangement will accept a full range of motor frame sizes through 184T. Maximum temperature of standard fan is 300°F. Maximum temperature of heat fan is 600°F\*. Standard construction is with the motor on the right when facing the end of the shaft. Indicate motor and mounting description (right or left) when ordering.



## Motor Positions

The drawing at right illustrates the AMCA 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.

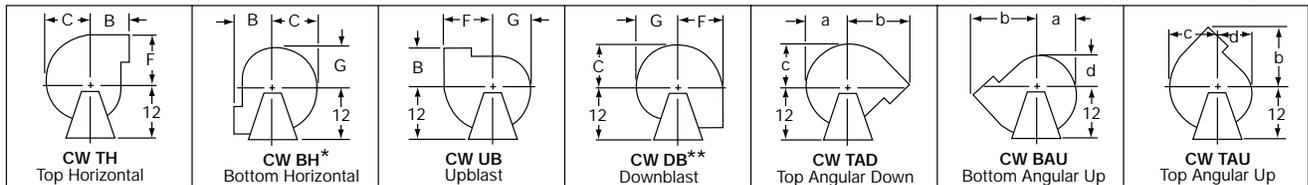


Illustrations reprinted from AMCA Publication 99 Standards Handbook, with the express written permission from the Air Movement & Control Association International, Inc., 30 West University Drive, Arlington Heights, IL 60004-1893.

\* Heat fan includes an aluminum-bronze "Dura" alloy wheel, A240 aluminum two-piece heat slinger, and heat shield. The heat slinger protects against transfer of heat through the shaft to the bearings.

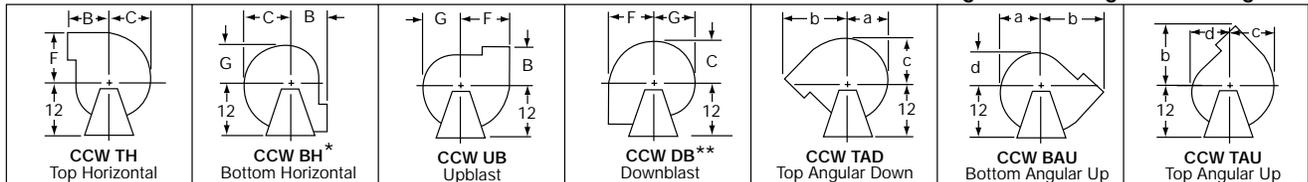
# Discharge Arrangements

### Clockwise



### Angular Discharges at 45 Degrees

### Counterclockwise



### Angular Discharges at 45 Degrees

\*In "BH" position, Size 12A and 12B with flanged outlet, flange will extend below baseline.  
 \*\*"DH" position with flanged outlet requires special construction. Contact factory for details.

# Performance Data

## Arrangement 4 – Direct Drive

| FAN SIZE   | MOTOR |      | ½" SP |      | ¾" SP |      | 1" SP |      | 1½" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |      |
|------------|-------|------|-------|------|-------|------|-------|------|--------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|            | HP    | RPM  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM    | BHP  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  | CFM   | BHP  |
| PB 8A-14   | ¼     | 1725 | 157   | 0.03 | 96    | 0.02 |       |      |        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
| PB 8A-13   | ½     | 3450 | 471   | 0.39 | 447   | 0.37 | 423   | 0.36 | 372    | 0.32 | 315   | 0.27 | 191   | 0.17 |       |      |       |      |       |      |       |      |       |      |
| PB 10A-12  | ½     | 1725 | 329   | 0.13 | 276   | 0.11 | 222   | 0.09 |        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
| PB 10A-1   | 1     | 3450 | 775   | 1.25 | 753   | 1.15 | 707   | 1.08 | 659    | 1.01 | 552   | 0.85 | 444   | 0.73 | 334   | 0.62 |       |      |       |      |       |      |       |      |
| PB 10A-112 | 1½    | 3500 | 808   | 1.29 | 788   | 1.71 | 767   | 1.21 | 722    | 1.13 | 674   | 1.06 | 570   | 0.91 | 463   | 0.77 | 357   | 0.66 |       |      |       |      |       |      |
| PB 10B-12  | ½     | 1725 | 537   | 0.29 | 454   | 0.17 | 375   | 0.15 | 148    | 0.08 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |
| PB 10B-1   | 1     | 3450 |       |      |       |      |       |      |        |      |       |      |       |      |       |      | 583   | 0.98 | 297   | 0.64 |       |      |       |      |
| PB 10B-112 | 1½    | 3500 |       |      |       |      |       |      |        | 1098 | 1.60  | 936  | 1.44  | 778  | 1.29  | 620  | 1.07  | 385  | 0.75  |      |       |      |       |      |
| PB 12A-12  | ½     | 1725 | 573   | 0.29 | 529   | 0.27 | 485   | 0.25 | 370    | 0.20 | 190   | 0.13 |       |      |       |      |       |      |       |      |       |      |       |      |
| PB 12A-2   | 2     | 3500 |       |      |       |      |       |      |        |      |       |      |       | 995  | 2.11  | 892  | 1.92  | 771  | 1.72  | 636  | 1.47  | 447  | 1.18  |      |
| PB 12A-3   | 3     | 3500 | 1307  | 2.62 | 1283  | 2.59 | 1259  | 2.57 | 1212   | 2.51 | 1168  | 2.45 | 1081  | 2.31 |       |      |       |      |       |      |       |      |       |      |
| PB 12B-12  | ½     | 1725 | 866   | 0.40 | 802   | 0.38 | 734   | 0.36 | 576    | 0.29 | 353   | 0.22 |       |      |       |      |       |      |       |      |       |      |       |      |
| PB 12B-3   | 3     | 3500 |       |      |       |      |       |      |        |      |       |      | 1639  | 3.20 | 1506  | 3.00 | 1361  | 2.78 | 1197  | 2.50 | 1033  | 2.32 | 791   | 1.97 |

## Arrangement 1 & 9 – Belt Driven

### PB8A

Inlet: 6" O.D. Outlet: 0.103 Sq. Ft. Based on air density of 0.075 lbs. per cu. ft.

| CFM | OV   | ½" SP |      | ¾" SP |      | 1½" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |     |  |  |
|-----|------|-------|------|-------|------|--------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|--|--|
|     |      | RPM   | BHP  | RPM   | BHP  | RPM    | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP |  |  |
| 41  | 400  | 1318  | 0.01 | 1849  | 0.02 |        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |  |  |
| 62  | 600  | 1358  | 0.01 | 1868  | 0.02 | 2273   | 0.03 | 2617  | 0.05 |       |      |       |      |       |      |       |      |       |      |       |     |  |  |
| 82  | 800  | 1422  | 0.01 | 1906  | 0.02 | 2297   | 0.04 | 2635  | 0.05 | 3210  | 0.09 | 3697  | 0.13 |       |      |       |      |       |      |       |     |  |  |
| 103 | 1000 | 1499  | 0.02 | 1966  | 0.03 | 2340   | 0.05 | 2667  | 0.06 | 3230  | 0.10 | 3713  | 0.14 | 4142  | 0.19 | 4530  | 0.24 | 4888  | 0.30 |       |     |  |  |
| 124 | 1200 | 1580  | 0.02 | 2040  | 0.04 | 2401   | 0.06 | 2715  | 0.07 | 3262  | 0.11 | 3737  | 0.15 | 4160  | 0.20 | 4546  | 0.25 | 4902  | 0.31 |       |     |  |  |
| 144 | 1400 | 1665  | 0.03 | 2114  | 0.05 | 2470   | 0.07 | 2775  | 0.09 | 3305  | 0.13 | 3769  | 0.17 | 4185  | 0.22 | 4566  | 0.27 | 4920  | 0.33 |       |     |  |  |
| 165 | 1600 | 1759  | 0.04 | 2194  | 0.06 | 2548   | 0.08 | 2848  | 0.10 | 3363  | 0.15 | 3813  | 0.19 | 4221  | 0.24 | 4596  | 0.29 | 4944  | 0.35 |       |     |  |  |
| 185 | 1800 | 1850  | 0.05 | 2274  | 0.07 | 2622   | 0.09 | 2921  | 0.12 | 3428  | 0.17 | 3867  | 0.22 | 4265  | 0.27 | 4633  | 0.32 | 4976  | 0.38 |       |     |  |  |
| 206 | 2000 | 1950  | 0.06 | 2365  | 0.08 | 2702   | 0.11 | 2999  | 0.14 | 3502  | 0.19 | 3932  | 0.25 | 4321  | 0.30 | 4680  | 0.36 |       |      |       |     |  |  |
| 227 | 2200 | 2055  | 0.07 | 2460  | 0.10 | 2787   | 0.13 | 3078  | 0.16 | 3579  | 0.22 | 4005  | 0.28 | 4386  | 0.34 | 4737  | 0.40 |       |      |       |     |  |  |
| 247 | 2400 | 2158  | 0.08 | 2550  | 0.12 | 2873   | 0.15 | 3156  | 0.18 | 3653  | 0.25 | 4077  | 0.31 | 4453  | 0.38 | 4799  | 0.44 |       |      |       |     |  |  |
| 268 | 2600 | 2269  | 0.10 | 2646  | 0.13 | 2968   | 0.17 | 3242  | 0.20 | 3731  | 0.28 | 4155  | 0.35 | 4529  | 0.42 | 4870  | 0.49 |       |      |       |     |  |  |
| 288 | 2800 | 2378  | 0.12 | 2741  | 0.15 | 3057   | 0.19 | 3330  | 0.23 | 3808  | 0.31 | 4229  | 0.39 | 4602  | 0.46 | 4941  | 0.54 |       |      |       |     |  |  |
| 309 | 3000 | 2494  | 0.14 | 2845  | 0.18 | 3152   | 0.22 | 3425  | 0.26 | 3892  | 0.34 | 4307  | 0.42 | 4680  | 0.51 |       |      |       |      |       |     |  |  |
| 330 | 3200 | 2614  | 0.16 | 2951  | 0.20 | 3249   | 0.25 | 3519  | 0.29 | 3978  | 0.38 | 4387  | 0.47 | 4757  | 0.56 |       |      |       |      |       |     |  |  |
| 350 | 3400 | 2729  | 0.18 | 3055  | 0.23 | 3344   | 0.28 | 3609  | 0.33 | 4066  | 0.42 | 4466  | 0.51 | 4833  | 0.60 |       |      |       |      |       |     |  |  |
| 371 | 3600 | 2851  | 0.21 | 3166  | 0.26 | 3447   | 0.31 | 3705  | 0.36 | 4161  | 0.46 | 4552  | 0.55 | 4913  | 0.65 |       |      |       |      |       |     |  |  |
| 391 | 3800 | 2969  | 0.24 | 3273  | 0.30 | 3548   | 0.35 | 3799  | 0.40 | 4251  | 0.51 | 4637  | 0.60 | 4992  | 0.71 |       |      |       |      |       |     |  |  |
| 412 | 4000 | 3094  | 0.28 | 3388  | 0.33 | 3655   | 0.39 | 3900  | 0.45 | 4345  | 0.56 | 4731  | 0.66 |       |      |       |      |       |      |       |     |  |  |
| 433 | 4200 | 3220  | 0.31 | 3505  | 0.38 | 3764   | 0.44 | 4004  | 0.49 | 4440  | 0.61 | 4826  | 0.73 |       |      |       |      |       |      |       |     |  |  |
| 453 | 4400 | 3341  | 0.35 | 3618  | 0.42 | 3870   | 0.48 | 4104  | 0.54 | 4531  | 0.67 | 4915  | 0.79 |       |      |       |      |       |      |       |     |  |  |
| 474 | 4600 | 3469  | 0.40 | 3738  | 0.47 | 3983   | 0.53 | 4211  | 0.60 | 4629  | 0.73 |       |      |       |      |       |      |       |      |       |     |  |  |
| 494 | 4800 | 3592  | 0.44 | 3853  | 0.52 | 4092   | 0.59 | 4315  | 0.65 | 4725  | 0.79 |       |      |       |      |       |      |       |      |       |     |  |  |
| 515 | 5000 | 3721  | 0.49 | 3976  | 0.57 | 4207   | 0.64 | 4426  | 0.72 | 4827  | 0.86 |       |      |       |      |       |      |       |      |       |     |  |  |

Performance shown for direct drive and belt driven fans is with inlet and outlet ducts. BHP does not include drive losses.

# Arrangement 1 & 9 – Belt Driven

## PB10A

Inlet: 7" O.D. Outlet: 0.126 Sq. Ft. Based on air density of 0.075 lbs. per cu. ft.

| CFM | OV   | 1/2" SP |      | 3/4" SP |      | 1" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |      | 10" SP |      |
|-----|------|---------|------|---------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|------|
|     |      | RPM     | BHP  | RPM     | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM    | BHP  |
| 50  | 400  | 1021    | 0.01 | 1248    | 0.02 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 76  | 600  | 1039    | 0.02 | 1257    | 0.03 | 1446  | 0.04 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 101 | 800  | 1081    | 0.02 | 1283    | 0.03 | 1462  | 0.04 | 2043  | 0.10 | 2495  | 0.18 |       |      |       |      |       |      |       |      |       |      |        |      |
| 126 | 1000 | 1139    | 0.02 | 1329    | 0.04 | 1497  | 0.05 | 2054  | 0.12 | 2502  | 0.19 | 2884  |      |       |      |       |      |       |      |       |      |        |      |
| 151 | 1200 | 1204    | 0.03 | 1387    | 0.04 | 1546  | 0.06 | 2076  | 0.13 | 2513  | 0.21 | 2891  | 0.30 | 3227  | 0.40 | 3531  | 0.51 |       |      |       |      |        |      |
| 176 | 1400 | 1272    | 0.04 | 1451    | 0.05 | 1605  | 0.07 | 2113  | 0.14 | 2533  | 0.23 | 2903  | 0.32 | 3235  | 0.43 | 3538  | 0.54 | 3818  | 0.66 | 4078  | 0.79 |        |      |
| 202 | 1600 | 1343    | 0.05 | 1520    | 0.06 | 1672  | 0.08 | 2163  | 0.15 | 2566  | 0.24 | 2923  | 0.35 | 3249  | 0.46 | 3548  | 0.58 | 3826  | 0.70 | 4085  | 0.83 | 4561   | 1.12 |
| 227 | 1800 | 1413    | 0.06 | 1589    | 0.08 | 1738  | 0.09 | 2217  | 0.17 | 2609  | 0.26 | 2953  | 0.37 | 3269  | 0.48 | 3563  | 0.61 | 3837  | 0.74 | 4094  | 0.88 | 4568   | 1.17 |
| 252 | 2000 | 1485    | 0.07 | 1658    | 0.09 | 1807  | 0.11 | 2278  | 0.19 | 2658  | 0.28 | 2994  | 0.39 | 3299  | 0.51 | 3585  | 0.64 | 3854  | 0.78 | 4107  | 0.92 | 4577   | 1.22 |
| 277 | 2200 | 1560    | 0.09 | 1727    | 0.11 | 1876  | 0.13 | 2342  | 0.22 | 2713  | 0.31 | 3041  | 0.42 | 3339  | 0.54 | 3616  | 0.67 | 3877  | 0.81 | 4126  | 0.96 | 4589   | 1.27 |
| 302 | 2400 | 1638    | 0.11 | 1799    | 0.13 | 1945  | 0.15 | 2407  | 0.24 | 2773  | 0.34 | 3092  | 0.45 | 3385  | 0.57 | 3655  | 0.71 | 3909  | 0.85 | 4152  | 1.01 | 4607   | 1.33 |
| 328 | 2600 | 1721    | 0.13 | 1876    | 0.15 | 2018  | 0.17 | 2477  | 0.27 | 2839  | 0.38 | 3152  | 0.49 | 3437  | 0.61 | 3702  | 0.74 | 3951  | 0.89 | 4187  | 1.05 | 4631   | 1.38 |
| 353 | 2800 | 1803    | 0.15 | 1953    | 0.17 | 2090  | 0.20 | 2546  | 0.31 | 2904  | 0.42 | 3213  | 0.53 | 3492  | 0.65 | 3752  | 0.79 | 3997  | 0.94 | 4228  | 1.09 | 4661   | 1.44 |
| 378 | 3000 | 1887    | 0.17 | 2031    | 0.20 | 2165  | 0.23 | 2615  | 0.34 | 2970  | 0.46 | 3277  | 0.58 | 3551  | 0.71 | 3805  | 0.84 | 4046  | 0.98 | 4274  | 1.14 | 4699   | 1.49 |
| 403 | 3200 | 1973    | 0.20 | 2112    | 0.23 | 2241  | 0.26 | 2684  | 0.38 | 3037  | 0.50 | 3341  | 0.64 | 3613  | 0.77 | 3863  | 0.90 | 4098  | 1.04 | 4323  | 1.20 | 4742   | 1.55 |
| 428 | 3400 | 2060    | 0.23 | 2194    | 0.27 | 2319  | 0.30 | 2753  | 0.42 | 3106  | 0.55 | 3407  | 0.69 | 3677  | 0.83 | 3924  | 0.97 | 4155  | 1.11 | 4375  | 1.27 | 4789   | 1.61 |
| 454 | 3600 | 2153    | 0.27 | 2281    | 0.30 | 2402  | 0.34 | 2825  | 0.47 | 3178  | 0.61 | 3476  | 0.75 | 3744  | 0.90 | 3990  | 1.05 | 4218  | 1.19 | 4434  | 1.35 | 4840   | 1.69 |
| 479 | 3800 | 2243    | 0.31 | 2366    | 0.35 | 2483  | 0.38 | 2897  | 0.52 | 3247  | 0.66 | 3545  | 0.81 | 3810  | 0.97 | 4054  | 1.12 | 4281  | 1.28 | 4494  | 1.44 | 4893   | 1.77 |
| 504 | 4000 | 2334    | 0.35 | 2453    | 0.39 | 2566  | 0.43 | 2970  | 0.58 | 3315  | 0.72 | 3614  | 0.88 | 3877  | 1.04 | 4119  | 1.20 | 4345  | 1.37 | 4556  | 1.53 | 4949   | 1.87 |
| 529 | 4200 | 2426    | 0.40 | 2540    | 0.44 | 2650  | 0.48 | 3044  | 0.63 | 3385  | 0.79 | 3683  | 0.95 | 3945  | 1.11 | 4185  | 1.28 | 4409  | 1.46 | 4620  | 1.63 |        |      |
| 554 | 4400 | 2520    | 0.45 | 2629    | 0.49 | 2735  | 0.53 | 3120  | 0.70 | 3455  | 0.86 | 3751  | 1.02 | 4014  | 1.19 | 4252  | 1.37 | 4474  | 1.55 | 4684  | 1.73 |        |      |
| 580 | 4600 | 2617    | 0.51 | 2723    | 0.55 | 2825  | 0.59 | 3200  | 0.77 | 3529  | 0.94 | 3823  | 1.11 | 4086  | 1.28 | 4323  | 1.46 | 4543  | 1.65 | 4751  | 1.84 |        |      |
| 605 | 4800 | 2712    | 0.57 | 2814    | 0.62 | 2913  | 0.66 | 3278  | 0.84 | 3601  | 1.02 | 3892  | 1.19 | 4155  | 1.37 | 4392  | 1.56 | 4611  | 1.75 | 4817  | 1.95 |        |      |
| 630 | 5000 | 2808    | 0.64 | 2905    | 0.68 | 3001  | 0.73 | 3358  | 0.92 | 3675  | 1.10 | 3962  | 1.29 | 4223  | 1.47 | 4461  | 1.66 | 4679  | 1.86 | 4884  | 2.06 |        |      |

Performance shown for direct drive and belt driven fans is with inlet and outlet ducts.  
BHP does not include drive losses.

## PB10B

Inlet: 7" O.D. Outlet: 0.203 Sq. Ft. Based on air density of 0.075 lbs. per cu. ft.

| CFM  | OV   | 1/2" SP |      | 3/4" SP |      | 1" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |      | 10" SP |      |
|------|------|---------|------|---------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|------|
|      |      | RPM     | BHP  | RPM     | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM   | BHP  | RPM    | BHP  |
| 81   | 400  | 994     | 0.02 | 1211    | 0.03 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 122  | 600  | 1019    | 0.02 | 1228    | 0.03 | 1409  | 0.04 | 1975  | 0.11 |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 162  | 800  | 1062    | 0.03 | 1260    | 0.04 | 1432  | 0.05 | 1988  | 0.12 | 2422  | 0.21 |       |      |       |      |       |      |       |      |       |      |        |      |
| 203  | 1000 | 1117    | 0.04 | 1307    | 0.05 | 1472  | 0.06 | 2008  | 0.14 | 2437  | 0.22 | 2802  | 0.33 | 3125  | 0.44 |       |      |       |      |       |      |        |      |
| 244  | 1200 | 1182    | 0.05 | 1361    | 0.06 | 1521  | 0.08 | 2038  | 0.16 | 2457  | 0.25 | 2818  | 0.35 | 3138  | 0.47 | 3430  | 0.59 | 3698  | 0.73 | 3949  | 0.87 |        |      |
| 284  | 1400 | 1253    | 0.06 | 1422    | 0.08 | 1575  | 0.10 | 2078  | 0.18 | 2484  | 0.27 | 2838  | 0.38 | 3155  | 0.50 | 3444  | 0.63 | 3712  | 0.77 | 3961  | 0.92 | 4418   | 1.24 |
| 325  | 1600 | 1326    | 0.08 | 1494    | 0.10 | 1637  | 0.12 | 2126  | 0.21 | 2520  | 0.31 | 2866  | 0.42 | 3178  | 0.54 | 3464  | 0.67 | 3728  | 0.82 | 3976  | 0.97 | 4431   | 1.29 |
| 365  | 1800 | 1398    | 0.09 | 1566    | 0.12 | 1707  | 0.15 | 2177  | 0.24 | 2564  | 0.35 | 2900  | 0.46 | 3205  | 0.59 | 3487  | 0.72 | 3749  | 0.87 | 3994  | 1.02 | 4446   | 1.35 |
| 406  | 2000 | 1473    | 0.11 | 1638    | 0.14 | 1780  | 0.17 | 2233  | 0.28 | 2614  | 0.40 | 2943  | 0.52 | 3240  | 0.64 | 3516  | 0.78 | 3774  | 0.93 | 4017  | 1.09 | 4465   | 1.43 |
| 447  | 2200 | 1550    | 0.13 | 1712    | 0.17 | 1853  | 0.20 | 2295  | 0.33 | 2666  | 0.45 | 2991  | 0.58 | 3283  | 0.71 | 3552  | 0.85 | 3804  | 1.00 | 4043  | 1.16 | 4487   | 1.51 |
| 487  | 2400 | 1626    | 0.16 | 1785    | 0.19 | 1924  | 0.23 | 2362  | 0.37 | 2721  | 0.51 | 3041  | 0.64 | 3329  | 0.78 | 3593  | 0.92 | 3840  | 1.08 | 4074  | 1.24 | 4512   | 1.59 |
| 528  | 2600 | 1708    | 0.18 | 1861    | 0.23 | 1998  | 0.27 | 2435  | 0.43 | 2781  | 0.57 | 3094  | 0.71 | 3379  | 0.86 | 3640  | 1.01 | 3883  | 1.17 | 4113  | 1.33 | 4542   | 1.69 |
| 568  | 2800 | 1789    | 0.22 | 1937    | 0.26 | 2071  | 0.30 | 2507  | 0.48 | 2844  | 0.64 | 3149  | 0.79 | 3430  | 0.95 | 3689  | 1.11 | 3929  | 1.27 | 4155  | 1.44 | 4576   | 1.80 |
| 609  | 3000 | 1873    | 0.26 | 2017    | 0.30 | 2148  | 0.35 | 2580  | 0.54 | 2915  | 0.71 | 3210  | 0.88 | 3485  | 1.04 | 3740  | 1.21 | 3979  | 1.38 | 4203  | 1.56 | 4617   | 1.92 |
| 650  | 3200 | 1959    | 0.30 | 2098    | 0.34 | 2225  | 0.39 | 2652  | 0.60 | 2988  | 0.79 | 3275  | 0.97 | 3543  | 1.14 | 3794  | 1.32 | 4030  | 1.50 | 4252  | 1.68 | 4663   | 2.06 |
| 690  | 3400 | 2044    | 0.35 | 2179    | 0.39 | 2303  | 0.44 | 2723  | 0.66 | 3060  | 0.87 | 3342  | 1.06 | 3603  | 1.25 | 3849  | 1.44 | 4082  | 1.62 | 4302  | 1.81 | 4709   | 2.21 |
| 731  | 3600 | 2134    | 0.40 | 2263    | 0.45 | 2384  | 0.50 | 2797  | 0.73 | 3133  | 0.96 | 3415  | 1.16 | 3668  | 1.36 | 3909  | 1.56 | 4138  | 1.76 | 4355  | 1.96 | 4759   | 2.37 |
| 771  | 3800 | 2224    | 0.46 | 2346    | 0.51 | 2464  | 0.56 | 2870  | 0.80 | 3204  | 1.04 | 3487  | 1.27 | 3736  | 1.48 | 3970  | 1.69 | 4195  | 1.90 | 4409  | 2.11 | 4809   | 2.53 |
| 812  | 4000 | 2317    | 0.52 | 2433    | 0.57 | 2547  | 0.63 | 2945  | 0.88 | 3276  | 1.13 | 3561  | 1.38 | 3808  | 1.61 | 4037  | 1.83 | 4256  | 2.05 | 4467  | 2.27 | 4862   | 2.71 |
| 853  | 4200 | 2412    | 0.60 | 2521    | 0.65 | 2631  | 0.70 | 3022  | 0.96 | 3349  | 1.23 | 3634  | 1.50 | 3882  | 1.74 | 4107  | 1.98 | 4321  | 2.21 | 4527  | 2.44 | 4917   | 2.90 |
| 893  | 4400 | 2505    | 0.67 | 2609    | 0.73 | 2715  | 0.79 | 3097  | 1.05 | 3421  | 1.33 | 3704  | 1.61 | 3954  | 1.88 | 4178  | 2.13 | 4387  | 2.37 | 4589  | 2.62 | 4973   | 3.10 |
| 934  | 4600 | 2602    | 0.76 | 2700    | 0.82 | 2801  | 0.88 | 3176  | 1.14 | 3496  | 1.44 | 3777  | 1.74 | 4028  | 2.03 | 4252  | 2.29 | 4459  | 2.55 | 4655  | 2.80 |        |      |
| 974  | 4800 | 2697    | 0.85 | 2791    | 0.91 | 2887  | 0.97 | 3253  | 1.24 | 3569  | 1.55 | 3848  | 1.86 | 4098  | 2.17 | 4324  | 2.46 | 4530  | 2.73 | 4724  | 2.99 |        |      |
| 1015 | 5000 | 2795    | 0.95 | 2885    | 1.01 | 2977  | 1.08 | 3333  | 1.35 | 3646  | 1.67 | 3921  | 1.99 | 4171  | 2.32 | 4398  | 2.63 | 4604  | 2.92 | 4796  | 3.20 |        |      |

Performance shown for direct drive and belt driven fans is with inlet and outlet ducts.  
BHP does not include drive losses.

# Arrangement 1 & 9 – Belt Driven

## PB12A

Inlet: 7" O.D. Outlet: 0.158 Sq. Ft. Based on air density of 0.075 lbs. per cu. ft.

| CFM | OV   | ½" SP |      | ¾" SP |      | 1" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |      | 10" SP |      |
|-----|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|------|
|     |      | RPM   | BHP  | RPM    | BHP  |
| 63  | 400  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 95  | 600  | 862   | 0.02 | 1047  | 0.03 | 1204  | 0.04 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 126 | 800  | 890   | 0.02 | 1062  | 0.03 | 1215  | 0.04 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 158 | 1000 | 923   | 0.03 | 1094  | 0.04 | 1237  | 0.05 | 1710  | 0.11 | 2085  | 0.18 |       |      |       |      |       |      |       |      |       |      |        |      |
| 190 | 1200 | 960   | 0.03 | 1127  | 0.05 | 1271  | 0.06 | 1725  | 0.13 | 2093  | 0.21 | 2409  | 0.29 |       |      |       |      |       |      |       |      |        |      |
| 221 | 1400 | 1008  | 0.04 | 1161  | 0.06 | 1302  | 0.07 | 1748  | 0.15 | 2106  | 0.23 | 2418  | 0.32 | 2695  | 0.41 |       |      |       |      |       |      |        |      |
| 253 | 1600 | 1060  | 0.05 | 1206  | 0.07 | 1337  | 0.08 | 1781  | 0.17 | 2126  | 0.25 | 2431  | 0.35 | 2705  | 0.45 | 2955  | 0.56 | 3187  | 0.67 |       |      |        |      |
| 284 | 1800 | 1110  | 0.06 | 1256  | 0.08 | 1380  | 0.10 | 1813  | 0.19 | 2153  | 0.28 | 2449  | 0.38 | 2718  | 0.49 | 2966  | 0.60 | 3195  | 0.72 | 3410  | 0.85 |        |      |
| 316 | 2000 | 1167  | 0.07 | 1308  | 0.10 | 1431  | 0.12 | 1845  | 0.21 | 2187  | 0.31 | 2475  | 0.42 | 2737  | 0.53 | 2980  | 0.65 | 3207  | 0.78 | 3420  | 0.91 | 3812   | 1.18 |
| 348 | 2200 | 1230  | 0.09 | 1360  | 0.11 | 1483  | 0.14 | 1880  | 0.23 | 2221  | 0.34 | 2508  | 0.46 | 2762  | 0.58 | 2999  | 0.70 | 3223  | 0.83 | 3433  | 0.97 | 3822   | 1.25 |
| 379 | 2400 | 1294  | 0.11 | 1414  | 0.13 | 1533  | 0.16 | 1919  | 0.26 | 2252  | 0.37 | 2541  | 0.50 | 2793  | 0.62 | 3024  | 0.75 | 3242  | 0.89 | 3449  | 1.03 | 3834   | 1.33 |
| 411 | 2600 | 1363  | 0.13 | 1475  | 0.15 | 1586  | 0.18 | 1966  | 0.29 | 2285  | 0.41 | 2574  | 0.54 | 2827  | 0.68 | 3055  | 0.81 | 3268  | 0.95 | 3470  | 1.10 | 3849   | 1.41 |
| 442 | 2800 | 1431  | 0.16 | 1539  | 0.18 | 1641  | 0.21 | 2016  | 0.33 | 2321  | 0.44 | 2605  | 0.58 | 2860  | 0.73 | 3088  | 0.87 | 3298  | 1.02 | 3496  | 1.17 | 3867   | 1.49 |
| 474 | 3000 | 1501  | 0.19 | 1606  | 0.21 | 1702  | 0.24 | 2068  | 0.37 | 2364  | 0.49 | 2638  | 0.63 | 2892  | 0.78 | 3123  | 0.94 | 3332  | 1.09 | 3527  | 1.25 | 3890   | 1.58 |
| 506 | 3200 | 1572  | 0.22 | 1675  | 0.25 | 1768  | 0.27 | 2119  | 0.41 | 2413  | 0.54 | 2675  | 0.68 | 2924  | 0.83 | 3155  | 1.00 | 3366  | 1.16 | 3561  | 1.33 | 3919   | 1.67 |
| 537 | 3400 | 1643  | 0.25 | 1743  | 0.28 | 1833  | 0.31 | 2169  | 0.45 | 2462  | 0.60 | 2716  | 0.73 | 2957  | 0.89 | 3186  | 1.06 | 3398  | 1.24 | 3595  | 1.41 | 3951   | 1.77 |
| 569 | 3600 | 1716  | 0.29 | 1813  | 0.33 | 1901  | 0.36 | 2222  | 0.49 | 2514  | 0.65 | 2762  | 0.80 | 2995  | 0.95 | 3219  | 1.13 | 3430  | 1.31 | 3628  | 1.50 | 3985   | 1.87 |
| 600 | 3800 | 1787  | 0.33 | 1881  | 0.37 | 1968  | 0.41 | 2275  | 0.54 | 2564  | 0.71 | 2811  | 0.87 | 3036  | 1.02 | 3253  | 1.20 | 3462  | 1.38 | 3659  | 1.58 | 4019   | 1.97 |
| 632 | 4000 | 1862  | 0.37 | 1953  | 0.42 | 2038  | 0.46 | 2334  | 0.60 | 2615  | 0.77 | 2862  | 0.94 | 3082  | 1.10 | 3292  | 1.27 | 3495  | 1.46 | 3691  | 1.66 | 4052   | 2.08 |
| 664 | 4200 | 1936  | 0.42 | 2026  | 0.47 | 2108  | 0.51 | 2395  | 0.66 | 2667  | 0.84 | 2914  | 1.02 | 3131  | 1.19 | 3335  | 1.36 | 3532  | 1.55 | 3724  | 1.75 | 4084   | 2.18 |
| 694 | 4400 | 2007  | 0.47 | 2095  | 0.52 | 2175  | 0.57 | 2455  | 0.72 | 2716  | 0.90 | 2963  | 1.10 | 3179  | 1.28 | 3379  | 1.46 | 3570  | 1.64 | 3757  | 1.84 | 4114   | 2.28 |
| 727 | 4600 | 2085  | 0.53 | 2171  | 0.59 | 2249  | 0.64 | 2523  | 0.80 | 2773  | 0.97 | 3016  | 1.18 | 3233  | 1.38 | 3430  | 1.57 | 3616  | 1.75 | 3797  | 1.95 | 4147   | 2.40 |
| 758 | 4800 | 2158  | 0.59 | 2243  | 0.65 | 2320  | 0.70 | 2589  | 0.88 | 2828  | 1.05 | 3065  | 1.26 | 3284  | 1.48 | 3479  | 1.68 | 3662  | 1.87 | 3838  | 2.06 | 4181   | 2.51 |
| 790 | 5000 | 2235  | 0.66 | 2317  | 0.72 | 2393  | 0.78 | 2657  | 0.97 | 2888  | 1.14 | 3118  | 1.35 | 3335  | 1.58 | 3531  | 1.79 | 3712  | 1.99 | 3884  | 2.19 | 4217   | 2.63 |

Performance shown for direct drive and belt driven fans is with inlet and outlet ducts.  
BHP does not include drive losses.

## PB12B

Inlet: 7" O.D. Outlet: 0.255 Sq. Ft. Based on air density of 0.075 lbs. per cu. ft.

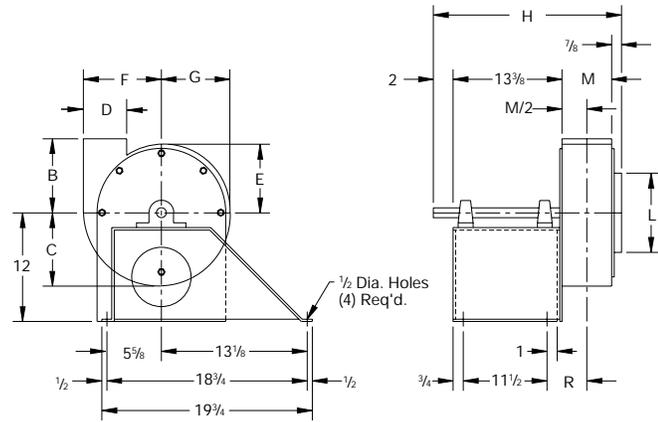
| CFM  | OV   | ½" SP |      | ¾" SP |      | 1" SP |      | 2" SP |      | 3" SP |      | 4" SP |      | 5" SP |      | 6" SP |      | 7" SP |      | 8" SP |      | 10" SP |      |
|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|------|
|      |      | RPM   | BHP  | RPM    | BHP  |
| 102  | 400  | 836   | 0.02 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 153  | 600  | 851   | 0.02 | 1031  | 0.04 | 1184  | 0.05 |       |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 204  | 800  | 879   | 0.03 | 1050  | 0.05 | 1199  | 0.06 | 1673  | 0.15 |       |      |       |      |       |      |       |      |       |      |       |      |        |      |
| 255  | 1000 | 916   | 0.04 | 1080  | 0.06 | 1223  | 0.08 | 1685  | 0.17 | 2050  | 0.28 | 2361  | 0.40 |       |      |       |      |       |      |       |      |        |      |
| 306  | 1200 | 967   | 0.05 | 1117  | 0.07 | 1254  | 0.10 | 1702  | 0.19 | 2061  | 0.30 | 2369  | 0.43 | 2642  | 0.58 | 2891  | 0.73 |       |      |       |      |        |      |
| 357  | 1400 | 1023  | 0.06 | 1165  | 0.09 | 1293  | 0.11 | 1727  | 0.22 | 2078  | 0.33 | 2381  | 0.47 | 2652  | 0.62 | 2898  | 0.78 | 3126  | 0.95 | 3339  | 1.13 |        |      |
| 408  | 1600 | 1080  | 0.08 | 1221  | 0.10 | 1341  | 0.13 | 1758  | 0.26 | 2100  | 0.38 | 2397  | 0.51 | 2665  | 0.66 | 2909  | 0.83 | 3134  | 1.00 | 3346  | 1.19 | 3734   | 1.59 |
| 439  | 1800 | 1117  | 0.09 | 1255  | 0.12 | 1374  | 0.15 | 1778  | 0.27 | 2116  | 0.41 | 2410  | 0.54 | 2675  | 0.69 | 2917  | 0.86 | 3141  | 1.04 | 3351  | 1.23 | 3738   | 1.64 |
| 510  | 2000 | 1208  | 0.12 | 1335  | 0.15 | 1453  | 0.18 | 1832  | 0.32 | 2160  | 0.48 | 2446  | 0.63 | 2703  | 0.79 | 2940  | 0.95 | 3162  | 1.14 | 3369  | 1.33 | 3751   | 1.75 |
| 561  | 2200 | 1276  | 0.15 | 1397  | 0.18 | 1510  | 0.21 | 1880  | 0.36 | 2194  | 0.53 | 2476  | 0.70 | 2729  | 0.87 | 2962  | 1.04 | 3180  | 1.22 | 3385  | 1.41 | 3764   | 1.84 |
| 612  | 2400 | 1347  | 0.18 | 1462  | 0.21 | 1569  | 0.25 | 1934  | 0.40 | 2233  | 0.58 | 2509  | 0.76 | 2759  | 0.95 | 2988  | 1.14 | 3202  | 1.32 | 3404  | 1.52 | 3780   | 1.94 |
| 663  | 2600 | 1420  | 0.21 | 1530  | 0.25 | 1632  | 0.29 | 1990  | 0.45 | 2279  | 0.64 | 2545  | 0.83 | 2791  | 1.03 | 3018  | 1.24 | 3229  | 1.44 | 3427  | 1.64 | 3797   | 2.06 |
| 714  | 2800 | 1495  | 0.25 | 1600  | 0.30 | 1698  | 0.34 | 2046  | 0.51 | 2330  | 0.70 | 2585  | 0.90 | 2825  | 1.12 | 3049  | 1.34 | 3258  | 1.56 | 3454  | 1.77 | 3819   | 2.20 |
| 765  | 3000 | 1571  | 0.30 | 1672  | 0.34 | 1766  | 0.39 | 2103  | 0.57 | 2385  | 0.76 | 2631  | 0.98 | 2863  | 1.20 | 3083  | 1.43 | 3290  | 1.67 | 3484  | 1.91 | 3844   | 2.36 |
| 816  | 3200 | 1648  | 0.35 | 1745  | 0.40 | 1836  | 0.45 | 2161  | 0.64 | 2442  | 0.84 | 2682  | 1.06 | 2905  | 1.29 | 3120  | 1.53 | 3323  | 1.78 | 3516  | 2.04 | 3872   | 2.53 |
| 867  | 3400 | 1727  | 0.41 | 1820  | 0.46 | 1907  | 0.51 | 2221  | 0.71 | 2498  | 0.92 | 2736  | 1.14 | 2952  | 1.39 | 3160  | 1.64 | 3359  | 1.90 | 3549  | 2.17 | 3903   | 2.70 |
| 918  | 3600 | 1806  | 0.47 | 1895  | 0.52 | 1980  | 0.58 | 2284  | 0.79 | 2554  | 1.01 | 2793  | 1.24 | 3004  | 1.49 | 3204  | 1.75 | 3398  | 2.02 | 3584  | 2.30 | 3934   | 2.86 |
| 969  | 3800 | 1887  | 0.54 | 1972  | 0.59 | 2054  | 0.65 | 2349  | 0.88 | 2612  | 1.11 | 2849  | 1.34 | 3059  | 1.60 | 3253  | 1.87 | 3441  | 2.15 | 3623  | 2.44 | 3968   | 3.03 |
| 1020 | 4000 | 1969  | 0.62 | 2050  | 0.67 | 2129  | 0.73 | 2415  | 0.97 | 2671  | 1.21 | 2905  | 1.46 | 3115  | 1.71 | 3306  | 1.99 | 3488  | 2.28 | 3664  | 2.58 | 4003   | 3.19 |
| 1071 | 4200 | 2051  | 0.70 | 2129  | 0.76 | 2205  | 0.82 | 2483  | 1.07 | 2731  | 1.33 | 2962  | 1.58 | 3172  | 1.84 | 3361  | 2.13 | 3539  | 2.42 | 3710  | 2.73 | 4041   | 3.36 |
| 1122 | 4400 | 2134  | 0.80 | 2209  | 0.86 | 2282  | 0.92 | 2553  | 1.19 | 2794  | 1.45 | 3019  | 1.71 | 3228  | 1.98 | 3418  | 2.27 | 3593  | 2.57 | 3760  | 2.89 | 4082   | 3.54 |
| 1173 | 4600 | 2217  | 0.90 | 2289  | 0.96 | 2360  | 1.03 | 2623  | 1.30 | 2859  | 1.58 | 3078  | 1.86 | 3284  | 2.13 | 3474  | 2.42 | 3649  | 2.73 | 3813  | 3.05 | 4126   | 3.73 |
| 1224 | 4800 | 2301  | 1.01 | 2371  | 1.07 | 2439  | 1.14 | 2695  | 1.43 | 2925  | 1.72 | 3139  | 2.01 | 3341  | 2.29 | 3530  | 2.59 | 3705  | 2.90 | 3868  | 3.23 | 4173   | 3.92 |
| 1275 | 5000 | 2385  | 1.13 | 2452  | 1.20 | 2518  | 1.26 | 2767  | 1.56 | 2992  | 1.86 | 3201  | 2.17 | 3399  | 2.46 | 3587  | 2.77 | 3761  | 3.08 | 3924  | 3.41 | 4225   | 4.12 |

Performance shown for direct drive and belt driven fans is with inlet and outlet ducts.  
BHP does not include drive losses.

# Dimensional Data

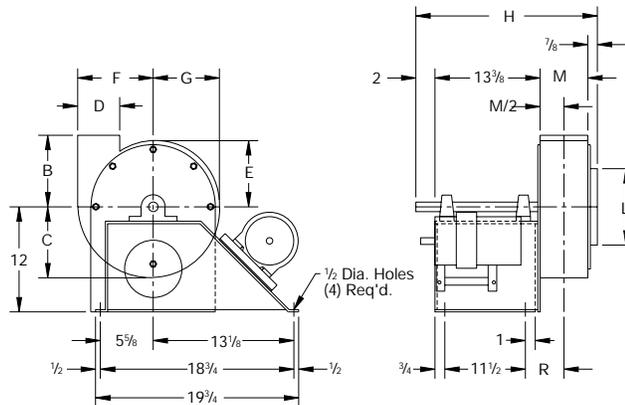
## Arrangement 1

L, M, and D are outside dimensions.



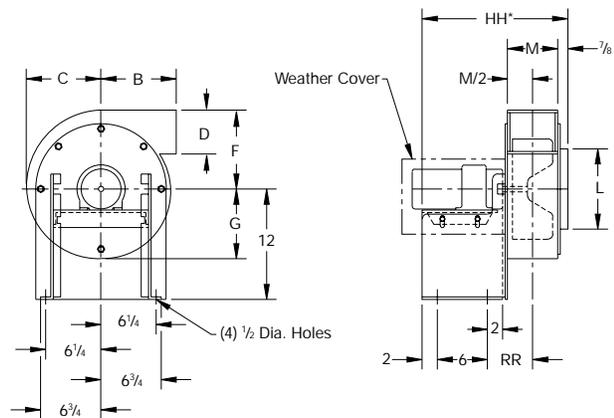
## Arrangement 9

L, M, and D are outside dimensions.



## Arrangement 4

\*Maximum motor overhang for any size motor up to frame 182T is 3". Weather cover extends 3 3/4" (increases HH dimensions by 3 3/4").



## Dimensions (in.) Tolerance: ±1/8"

| SIZE & WHEEL DIA. | B     | C     | D     | E     | F      | G     | H      | L | M     | R       | HH*    | RR      | a**   | b**    | c**    | d**   | SHAFT DIA.† | KEYWAY †          | BASE HOLES |
|-------------------|-------|-------|-------|-------|--------|-------|--------|---|-------|---------|--------|---------|-------|--------|--------|-------|-------------|-------------------|------------|
| 8A                | 6     | 6 3/8 | 4 5/8 | 5 3/8 | 6 1/8  | 5 7/8 | 19 7/8 | 6 | 3 5/8 | 2 13/16 | 14 1/2 | 3 13/16 | 6 1/4 | 9 1/8  | 6 5/8  | 5 5/8 | 1           | 1/4 x 1/8 x 2 1/8 | 1/2        |
| 10A               | 7 1/2 | 7 7/8 | 5 5/8 | 6 5/8 | 8 1/2  | 7 1/4 | 19 7/8 | 7 | 3 3/8 | 2 13/16 | 14 1/2 | 3 13/16 | 7 3/4 | 11 1/4 | 8      | 6 3/4 | 1           | 1/4 x 1/8 x 2 1/8 | 1/2        |
| 10B               | 7 1/2 | 7 7/8 | 5 5/8 | 6 5/8 | 8 1/2  | 7 1/4 | 21 7/8 | 7 | 5 5/8 | 3 13/16 | 16 1/2 | 4 13/16 | 7 3/4 | 11 1/4 | 8      | 6 3/4 | 1           | 1/4 x 1/8 x 2 1/8 | 1/2        |
| 12A               | 8 1/2 | 10    | 7     | 7 1/2 | 11 1/4 | 8 3/4 | 19 7/8 | 7 | 3 3/8 | 2 13/16 | 14 1/2 | 3 13/16 | 9 3/8 | 13 7/8 | 10 5/8 | 8 1/8 | 1           | 1/4 x 1/8 x 2 1/8 | 1/2        |
| 12B               | 8 1/2 | 10    | 7     | 7 1/2 | 11 1/4 | 8 3/4 | 21 7/8 | 7 | 5 5/8 | 3 13/16 | 16 1/2 | 4 13/16 | 9 3/8 | 13 7/8 | 10 5/8 | 8 1/8 | 1           | 1/4 x 1/8 x 2 1/8 | 1/2        |

Dimensions should not be used for construction unless certified.

\*\*See Discharge Arrangements, page 3.

†Arrangements 1 & 9