

# Direct & Belt Drive Centrifugal Roof & Wall Exhausters

CENTRIMASTER® MODELS PDU & PNU



ACME ENGINEERING & MANUFACTURING CORPORATION / MUSKOGEE, OKLAHOMA

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# MODEL PDU AND PNU UPBLAST EXHAUSTERS

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### MODEL PDU DIRECT DRIVE EXHAUSTER

Model PDU is a direct drive centrifugal upblast exhauster designed to discharge exhaust air high above the roof surface. The PDU is available in two models: the PDU-RF for clean air exhaust applications and the PDU-RG for grease laden exhaust applications. PDU exhausters are available in nine (9) sizes ranging in capacities from 253 to 5317 CFM and up to 1 ¼ inches static pressure. Wall adapter kit is available for wall-mount applications.

### MODEL PNU BELT DRIVE EXHAUSTER

Model PNU is a belt drive centrifugal upblast exhauster designed to discharge exhaust air high above the roof surface. The PNU is available in three models: the PNU-RF for clean air exhaust applications, the PNU-RG for grease laden exhaust applications, and the PNU-SE for emergency smoke control systems. High pressure models PNUHP and PNUXP are available for applications with static pressures up to 4" and 5" respectively. PNU exhausters are available in thirteen (13) sizes ranging in capacities from 74 to 33,374 CFM. Wall adapter kit is available for wall mount applications up to size 245.



Acme Engineering & Manufacturing Corp. certifies that models PDU and PNU exhausters shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Models PDU-RF and PNU-RF are Listed for electrical (UL/C-UL 705) File No. E39982.  
Models PDU-RG and PNU-RG are Listed for (UL/C-UL 762) File No. MH11542.  
Model PNU-SE is Listed for electrical (UL/C-UL 705) File No. E39982 and is Listed for Power Ventilator for Smoke Control Systems File No. MH25680.



CSA Certified



Consult your Acme representative for availability.

## CONSTRUCTION FEATURES

### DRIVE ASSEMBLY

Motor and drive assembly are located out of exhaust air stream. Drive assembly and motor support are constructed of a rugged galvanized steel frame. Belts are static free, heat and oil resistant. Cast iron drives are sized for 150% of drive horse power.

### BIRDSCREEN

Constructed of heavy gauge galvanized wire. Attached to top of windband to reduce the chance of objects collecting in discharge area. Optional on PDURG and PNURG models.

### MOTOR

Motors are heavy-duty type with pre-lubricated ball bearings requiring minimum maintenance. All motors are located out of the air stream and are cooled with outside air.

### BEARINGS

Permanently lubricated bearings are used in duplex split pillow block housing. Bearings are resiliently mounted in neoprene rings, providing extra protection and vibration isolation. The bearing assembly is rated at an L<sub>50</sub> life of 200,000 hours and features Acme's 5 year limited warranty.

### ALUMINUM AIRFOIL IMPELLER

All models have non-overloading aluminum impellers with single thickness, backward curved blades. Impeller is optimally matched with inlet orifice resulting in a high performance centrifugal fan that operates with a minimum of air noise and maximum efficiency. Impellers are precision balanced.



**MODEL PDU  
DIRECT DRIVE**

### COMPARTMENT COVER

Constructed of heavy gauge aluminum. Quick release latches allow for easy cover removal and access to motor compartment without tools.

### DISCONNECT

A disconnect switch or plug is furnished as standard. Switch is mounted internally on PDURF and PNURF models and externally on PDURG and PNURG models.

### BREATHER TUBE

Cooling Fins located on top of the impeller draws outside air through the breather tube directly into the motor compartment resulting in maximum motor life.

**MODEL PNU  
BELT DRIVE**

### WINDBAND

Constructed of heavy gauge aluminum with rolled bead for extra strength. Orifice base and motor base constructed of galvanized steel.

### VIBRATION ISOLATION

Neoprene vibration isolators are installed to isolate motor and drive base from fan housing.



## GREASE FAN CONSTRUCTION FEATURES

### GREASE EXHAUST CLASSIFICATION

PDU-RG and PNU-RG exhausters are listed by Underwriters Laboratories (UL) for restaurant exhaust in their "Fire Protection Equipment Directory" under "Power Ventilators for Restaurant Exhaust Applications (YZHW)."

To meet the requirements for this application, PDU-RG and PNU-RG exhausters passed two very demanding test:

- Normal Temperature Test required the fan to operate continuously while exhausting air at 300° F without any deteriorating effect to the fan which would cause unsafe operation.
- Abnormal Flare-Up Test required the fan to operate continuously while exhausting burning grease vapors at 600° F for approximately 15 minutes without any deteriorating effect to the fan which would cause unsafe operations.

\*To comply with NFPA 96 the unit must be mounted on a curb of sufficient height to raise the discharge to 40" or more.



**GREASE TROUGH KIT (OPTIONAL)**  
Collects grease to avoid drainage onto roof surface. Easy clip on attachment; does not require tools for removal.

**CURB HINGE KIT (OPTIONAL)**  
Allows entire exhauster to swing away for access to wheel and ductwork for cleaning.

**CURB (OPTIONAL)**  
Designed to meet NFPA\* requirements. Constructed of heavy gauge galvanized steel with continuous weld seams.

## PNU-SE CONSTRUCTION FEATURES

### EMERGENCY SMOKE CONTROL

PNU-SE exhausters are Listed by Underwriters Laboratories (UL) as Power Ventilators for Emergency Smoke Control Systems.

### STEEL IMPELLER

Backward inclined, non-overloading centrifugal steel impeller. Operates with a minimum of air noise and maximum efficiency while exhausting high temperature air.



### MOTOR

Motors are heavy-duty type with pre-lubricated ball bearings requiring minimum maintenance. All motors are located out of the air stream and are cooled with ambient air.

### DRIVE ASSEMBLY

Motor and drive assembly are located out of exhaust air stream. Drive assembly and motor support are constructed of a rugged galvanized steel frame. Belts are static free, heat and oil resistant. Cast iron drives are sized for 150% of drive horsepower.

### COMPARTMENT SHIELD

Insulation restricts heat propagation into motor compartment.

### DISCONNECT SWITCH

Factory disconnect mounted as standard. All wiring and electrical components comply with National Electrical Codes (NEC) and are either UL Listed or Recognized.

### BEARINGS

Permanently lubricated bearings are used in duplex split pillow block housing. Bearings are resiliently mounted in neoprene rings, providing extra protection and vibration isolation. The bearing assembly is rated at an L<sub>50</sub> life of 200,000 hours and features Acme's **5-year** Limited Warranty.

### COMPARTMENT COVER

Constructed of heavy gauge aluminum. Quick release latches allow easy removal of cover for access to motor compartment without tools.

### BREATHER TUBES

Cooling fins located on top of the impeller draw outside air through the breather tubes directly into the motor compartment resulting in maximum motor life.

### VIBRATION ISOLATION

Neoprene vibration isolators are installed to isolate motor and drive base from fan housing.

### WINDBAND

Constructed of heavy gauge aluminum with rolled bead for extra strength. Orifice base and motor base constructed of galvanized steel

**Model PNU-SE is Listed for Electrical (UL/C-UL 705) File No. E39982 and is Listed for Power Ventilator for Smoke Control System File No. MH25680.**

### UL Listed for:

500°F for 4 and 8 hours  
630°F for 4 hours  
1000°F for 15 and 25 minutes

### APPLICATIONS

General Clean Air Exhaust  
Emergency Smoke Control





# PDU PERFORMANCE AND DIMENSIONAL DATA

| Fan Model | Motor |        | LICENSED CFM AND SONES vs. STATIC PRESSURE |      |       |      |       |      |       |      |       |      |       |      |       |      |        |      |        |      | ● MAX. BHP |
|-----------|-------|--------|--------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--------|------|--------|------|------------|
|           | HP    | RPM    | .000"                                      |      | .125" |      | .250" |      | .375" |      | .500" |      | .625" |      | .750" |      | 1.000" |      | 1.250" |      |            |
|           |       |        | CFM                                        | Sone | CFM   | Sone | CFM   | Sone | CFM   | Sone | CFM   | Sone | CFM   | Sone | CFM   | Sone | CFM    | Sone | CFM    | Sone |            |
| PDU080    | 1/15  | ■ 1600 | 385                                        | 9.7  | 368   | 9.5  | 350   | 9.2  | 323   | 8.8  | 253   | 8.5  |       |      |       |      |        |      |        |      | .040       |
|           |       | 1300   | 313                                        | 7.4  | 292   | 7.7  | 261   | 11.0 |       |      |       |      |       |      |       |      |        |      |        |      | .020       |
| PDU100    | 1/10  | ■ 1630 | 850                                        | 12.0 | 788   | 11.8 | 735   | 11.3 | 681   | 10.6 | 625   | 9.6  | 573   | 8.9  |       |      |        |      |        |      | .085       |
|           |       | 1300   | 678                                        | 8.3  | 604   | 7.8  | 537   | 7.5  | 468   | 6.9  |       |      |       |      |       |      |        |      |        |      | .042       |
| PDU110    | 1/10  | ■ 1550 | 1017                                       | 10.1 | 951   | 10.2 | 885   | 10.6 | 816   | 9.6  | 731   | 9.5  | 617   | 9.5  | 506   | 9.5  |        |      |        |      | .098       |
|           |       | 1300   | 853                                        | 8.1  | 774   | 8.3  | 693   | 7.6  | 588   | 7.5  | 454   | 7.5  | 270   | 7.5  |       |      |        |      |        |      | .057       |
|           |       | 1050   | 689                                        | 6.0  | 591   | 6.2  | 468   | 5.5  | 292   | 5.5  |       |      |       |      |       |      |        |      |        |      | .030       |
|           |       | 860    | 564                                        | 4.5  | 441   | 4.2  | 243   | 4.2  |       |      |       |      |       |      |       |      |        |      |        |      | .016       |
| PDU120E4  | 1/4   | ■ 1680 | 1753                                       | 13.8 | 1689  | 13.7 | 1611  | 13.6 | 1522  | 13.6 | 1433  | 13.5 | 1295  | 13.2 | 1155  | 13.1 |        |      |        |      | .250       |
|           |       | 1550   | 1617                                       | 13.5 | 1548  | 13.5 | 1457  | 13.1 | 1361  | 12.7 | 1233  | 12.4 | 1082  | 12.0 |       |      |        |      |        |      | .200       |
|           |       | 1300   | 1356                                       | 10.8 | 1269  | 9.9  | 1154  | 9.5  | 1001  | 9.6  |       |      |       |      |       |      |        |      |        |      | .110       |
|           |       | 1160   | 1210                                       | 9.0  | 1106  | 8.8  | 972   | 8.7  | 770   | 8.2  |       |      |       |      |       |      |        |      |        |      | .080       |
|           |       | 860    | 897                                        | 5.3  | 742   | 5.3  |       |      |       |      |       |      |       |      |       |      |        |      |        |      | .030       |
| PDU135F6  | 1/3   | ■ 1160 | 1840                                       | 11.9 | 1718  | 11.6 | 1597  | 11.1 | 1470  | 11.0 | 1311  | 10.6 |       |      |       |      |        |      |        |      | .164       |
|           |       | 1050   | 1665                                       | 10.5 | 1531  | 10.0 | 1397  | 9.7  | 1242  | 9.4  |       |      |       |      |       |      |        |      |        |      | .122       |
|           |       | 860    | 1364                                       | 8.5  | 1201  | 8.1  | 1020  | 7.6  |       |      |       |      |       |      |       |      |        |      |        |      | .067       |
| PDU135G4  | ½     | ■ 1725 | 2736                                       | 20   | 2654  | 19.2 | 2572  | 19.2 | 2491  | 19.0 | 2410  | 18.5 | 2328  | 18.4 | 2243  | 18.3 | 2052   | 18.1 | 1782   | 17.5 | .540       |
|           |       | 1550   | 2458                                       | 17.6 | 2367  | 17.1 | 2276  | 16.9 | 2186  | 16.5 | 2095  | 16.2 | 2000  | 16.1 | 1897  | 16.0 | 1614   | 15.0 |        |      | .392       |
|           |       | 1300   | 2062                                       | 14.0 | 1953  | 13.6 | 1845  | 13.1 | 1737  | 12.9 | 1619  | 12.7 | 1473  | 12.0 |       |      |        |      |        |      | .231       |
|           |       | 1050   | 1665                                       | 10.5 | 1531  | 10.0 | 1397  | 9.7  | 1242  | 9.4  |       |      |       |      |       |      |        |      |        |      | .122       |
|           |       | 860    | 1364                                       | 8.5  | 1201  | 8.1  | 1020  | 7.6  |       |      |       |      |       |      |       |      |        |      |        |      | .067       |
| PDU150F6  | 1/3   | ■ 1160 | 2260                                       | 11.6 | 2139  | 10.9 | 2018  | 9.9  | 1934  | 10.0 | 1835  | 9.5  | 1680  | 8.9  | 1458  | 8.5  |        |      |        |      | .290       |
|           |       | 860    | 1676                                       | 8.0  | 1512  | 8.4  | 1395  | 8.5  | 1170  | 7.9  |       |      |       |      |       |      |        |      |        |      | .120       |
| PDU165G6  | ½     | ■ 1160 | 3242                                       | 18.2 | 3087  | 18.5 | 2934  | 18.1 | 2781  | 17.0 | 2621  | 16.2 | 2439  | 16.1 | 2194  | 15.2 | 1692   | 15.9 |        |      | .500       |
|           |       | 1050   | 2935                                       | 15.9 | 2764  | 16.3 | 2595  | 16.0 | 2421  | 14.9 | 2227  | 13.7 | 1962  | 13.4 | 1680  | 13.8 |        |      |        |      | .373       |
|           |       | 860    | 2404                                       | 11.9 | 2196  | 12.4 | 1986  | 10.7 | 1725  | 10.6 | 1385  | 10.2 |       |      |       |      |        |      |        |      | .205       |
| PDU185G6  | ½     | 1160   | 4340                                       | 15.0 | 4193  | 15.0 | 4047  | 14.5 | 3900  | 14.0 | 3751  | 13.3 | 3602  | 12.6 | 3426  | 12.7 |        |      |        |      | .600       |
| PDU200J6  | 1     | 1160   | 5317                                       | 19.5 | 5155  | 18.2 | 4994  | 17.8 | 4830  | 17.8 | 4657  | 17.0 | 4483  | 17.0 | 4305  | 16.8 | 3898   | 16.1 | 3415   | 15.4 | 1.215      |

The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan sone levels.

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test.

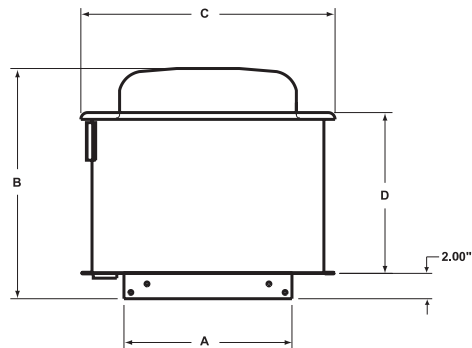
- The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating on Acme exhaustors does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

- Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use SSC.

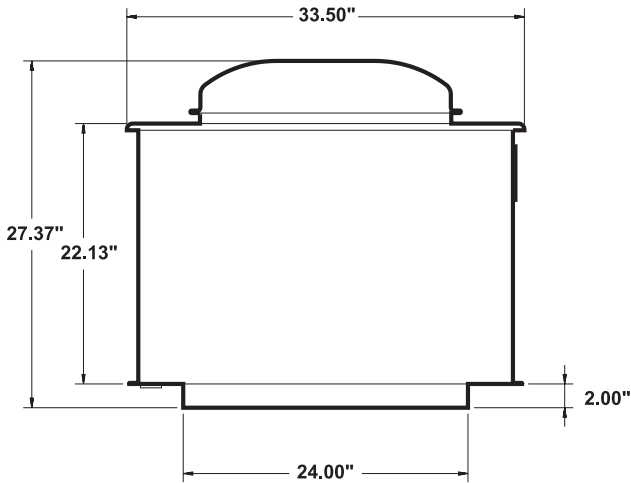
| DIMENSIONS |       |       |       |       |           |           |           |
|------------|-------|-------|-------|-------|-----------|-----------|-----------|
| Fan Model  | A Sq. | B     | C     | D     | Duct Size | Est. Unit | Est. Ship |
|            |       |       |       |       |           | Wt. lbs.  | Wt. lbs.  |
| PDU080     | 13.50 | 13.06 | 20.63 | 12.84 | 6.50      | 23        | 36        |
| PDU100     | 13.50 | 16.10 | 20.63 | 12.84 | 10.00     | 30        | 43        |
| PDU110     | 13.50 | 16.41 | 20.63 | 12.84 | 11.00     | 30        | 43        |
| PDU120     | 19.00 | 19.48 | 26.41 | 16.59 | 14.50     | 50        | 72        |
| PDU135     | 19.00 | 20.87 | 26.41 | 16.59 | 15.00     | 50        | 72        |
| PDU150     | 24.00 | 23.89 | 30.16 | 21.92 | 16.50     | 76        | 102       |
| PDU165     | 24.00 | 23.89 | 30.16 | 21.92 | 19.50     | 76        | 102       |
| PDU185     | 28.00 | 25.75 | 34.65 | 21.99 | 23.00     | 94        | 179       |
| PDU200     | 28.00 | 25.75 | 34.65 | 21.99 | 25.00     | 94        | 179       |

Dimensions shown in inches.

Typical drawings are for dimensional purposes only and are correct within limits suitable for normal installation requirements. They do not necessarily show actual construction.



# PNUXP080 PERFORMANCE DATA AND DIMENSIONS



| Fan Model  | HP  | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|------------|-----|-------------|---------------|---------------|
|            |     |             | lbs.          | lbs.          |
| PNUXP080E1 | 1/4 | 1324 - 1673 | 84            | 120           |
| PNUXP080E2 | 1/4 | 1633 - 2110 | 84            | 120           |
| PNUXP080E3 | 1/4 | 2130 - 2598 | 84            | 120           |
| PNUXP080F  | 1/3 | 2333 - 2877 | 87            | 123           |
| PNUXP080G  | 1/2 | 2833 - 3293 | 94            | 130           |
| PNUXP080H  | 3/4 | 2840 - 3378 | 101           | 137           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 1324 | 330                                        |      | 271   |      | 211   |      | 117   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 5.0  | 0.06  | 4.7  | 0.06  | 4.7  | 0.06  | 4.9  |        |      |        |      |        |      |        |      |        |      |        |      |
| 1633 | 407                                        |      | 360   |      | 310   |      | 262   |      | 190    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.09                                       | 7.0  | 0.10  | 6.7  | 0.11  | 6.4  | 0.11  | 6.1  | 0.12   | 6.7  |        |      |        |      |        |      |        |      |        |      |
| 1673 | 417                                        |      | 371   |      | 322   |      | 277   |      | 211    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.10                                       | 7.3  | 0.11  | 7.1  | 0.12  | 6.7  | 0.12  | 6.5  | 0.12   | 7.0  |        |      |        |      |        |      |        |      |        |      |
| 2110 | 526                                        |      | 488   |      | 452   |      | 413   |      | 377    |      | 339    |      | 289    |      | 225    |      |        |      |        |      |
|      | 0.20                                       | 11.4 | 0.21  | 11.2 | 0.22  | 10.7 | 0.23  | 10.3 | 0.24   | 10.2 | 0.25   | 10.5 | 0.25   | 10.8 | 0.25   | 11.1 |        |      |        |      |
| 2130 | 531                                        |      | 493   |      | 458   |      | 419   |      | 384    |      | 347    |      | 299    |      | 236    |      | 155    |      |        |      |
|      | 0.21                                       | 11.5 | 0.22  | 11.4 | 0.23  | 10.9 | 0.24  | 10.5 | 0.25   | 10.4 | 0.25   | 10.6 | 0.26   | 10.9 | 0.26   | 11.3 | 0.24   | 11.7 |        |      |
| 2333 | 582                                        |      | 546   |      | 516   |      | 480   |      | 445    |      | 414    |      | 380    |      | 338    |      | 281    |      | 224    |      |
|      | 0.27                                       | 13.2 | 0.28  | 13.1 | 0.30  | 12.5 | 0.31  | 12.2 | 0.32   | 11.9 | 0.33   | 11.9 | 0.33   | 12.2 | 0.34   | 12.5 | 0.34   | 12.9 | 0.33   | 13.3 |
| 2598 | 648                                        |      | 614   |      | 588   |      | 558   |      | 526    |      | 495    |      | 467    |      | 439    |      | 403    |      | 360    |      |
|      | 0.37                                       | 15.5 | 0.39  | 15.5 | 0.40  | 14.9 | 0.42  | 14.6 | 0.43   | 14.0 | 0.44   | 13.6 | 0.45   | 14.0 | 0.46   | 14.3 | 0.46   | 14.7 | 0.47   | 15.2 |
| 2833 | 707                                        |      | 674   |      | 650   |      | 625   |      | 596    |      | 567    |      | 538    |      | 512    |      | 487    |      | 456    |      |
|      | 0.49                                       | 17.7 | 0.50  | 17.6 | 0.52  | 17.0 | 0.53  | 16.8 | 0.54   | 16.0 | 0.56   | 15.3 | 0.57   | 15.7 | 0.58   | 16.0 | 0.59   | 16.3 | 0.60   | 17.0 |
| 2840 | 709                                        |      | 675   |      | 652   |      | 627   |      | 598    |      | 569    |      | 540    |      | 514    |      | 489    |      | 459    |      |
|      | 0.49                                       | 17.7 | 0.50  | 17.7 | 0.52  | 17.1 | 0.54  | 16.9 | 0.55   | 16.1 | 0.56   | 15.4 | 0.57   | 15.7 | 0.58   | 16.0 | 0.59   | 16.4 | 0.60   | 17.0 |
| 2877 | 718                                        |      | 685   |      | 662   |      | 637   |      | 609    |      | 580    |      | 552    |      | 526    |      | 501    |      | 473    |      |
|      | 0.51                                       | 18.1 | 0.52  | 18.1 | 0.54  | 17.4 | 0.56  | 17.2 | 0.57   | 16.4 | 0.58   | 15.7 | 0.59   | 16.0 | 0.61   | 16.3 | 0.62   | 16.7 | 0.62   | 17.0 |
| 3293 | 822                                        |      | 791   |      | 770   |      | 750   |      | 727    |      | 703    |      | 678    |      | 653    |      | 628    |      | 605    |      |
|      | 0.76                                       | 23   | 0.77  | 23   | 0.79  | 22   | 0.82  | 22   | 0.83   | 20   | 0.85   | 19.2 | 0.86   | 19.4 | 0.88   | 19.7 | 0.89   | 20   | 0.91   | 20   |
| 3378 | 843                                        |      | 813   |      | 792   |      | 772   |      | 751    |      | 727    |      | 703    |      | 678    |      | 654    |      | 631    |      |
|      | 0.82                                       | 24   | 0.83  | 24   | 0.85  | 23   | 0.88  | 23   | 0.90   | 21   | 0.91   | 20   | 0.93   | 20   | 0.94   | 21   | 0.96   | 21   | 0.97   | 21   |

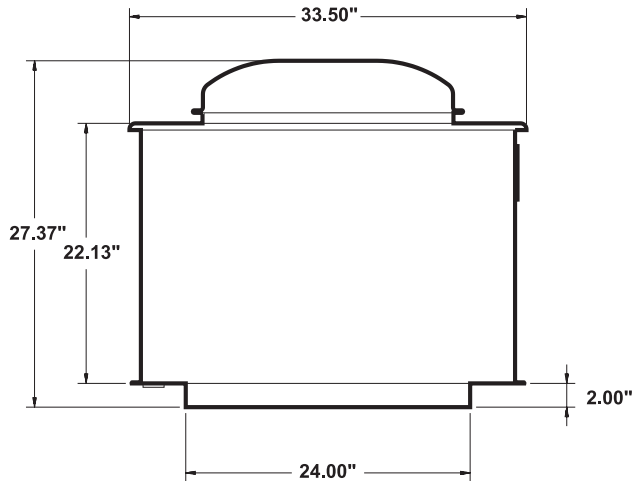
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 2598 | 309                                        |      | 258    |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.47                                       | 15.4 | 0.46   | 15.8 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 2833 | 423                                        |      | 379    |      | 332    |      | 285    |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.60                                       | 17.1 | 0.61   | 17.4 | 0.61   | 17.8 | 0.60   | 18.1 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 2840 | 425                                        |      | 382    |      | 335    |      | 288    |      | 232    |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.61                                       | 17.1 | 0.61   | 17.5 | 0.61   | 17.8 | 0.60   | 18.2 | 0.59   | 18.5 |        |      |        |      |        |      |        |      |        |      |        |      |
| 2877 | 439                                        |      | 401    |      | 354    |      | 308    |      | 262    |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.63                                       | 17.4 | 0.63   | 17.7 | 0.64   | 18.1 | 0.63   | 18.4 | 0.62   | 19.1 |        |      |        |      |        |      |        |      |        |      |        |      |
| 3293 | 583                                        |      | 562    |      | 535    |      | 506    |      | 475    |      | 435    |      | 394    |      | 354    |      | 313    |      |        |      |        |      |
|      | 0.92                                       | 21   | 0.93   | 21   | 0.94   | 21   | 0.94   | 22   | 0.95   | 22   | 0.95   | 22   | 0.95   | 23   | 0.94   | 23   | 0.93   | 23   |        |      |        |      |
| 3378 | 610                                        |      | 588    |      | 566    |      | 538    |      | 510    |      | 477    |      | 437    |      | 398    |      | 358    |      | 319    |      |        |      |
|      | 0.98                                       | 22   | 1.00   | 22   | 1.01   | 22   | 1.01   | 22   | 1.02   | 23   | 1.03   | 23   | 1.03   | 23   | 1.03   | 24   | 1.02   | 24   | 1.01   | 25   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNUHP100 PERFORMANCE DATA AND DIMENSIONS



| Fan Model  | HP  | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|------------|-----|-------------|---------------|---------------|
|            |     |             | lbs.          | lbs.          |
| PNUHP100E1 | 1/4 | 942 - 1211  | 84            | 120           |
| PNUHP100E2 | 1/4 | 1225 - 1561 | 84            | 120           |
| PNUHP100E3 | 1/4 | 1531 - 1922 | 84            | 120           |
| PNUHP100F  | 1/3 | 1633 - 2128 | 87            | 123           |
| PNUHP100G  | 1/2 | 1983 - 2436 | 94            | 130           |
| PNUHP100H  | 3/4 | 2288 - 2798 | 101           | 137           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 942  | 500                                        |      | 359   |      |       |      |       |      |        |      |        |      |        |      |        |      |
|      | 0.02                                       | 3.6  | 0.03  | 2.8  |       |      |       |      |        |      |        |      |        |      |        |      |
| 1211 | 642                                        |      | 543   |      | 404   |      |       |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 5.6  | 0.06  | 5.2  | 0.07  | 4.7  |       |      |        |      |        |      |        |      |        |      |
| 1225 | 650                                        |      | 552   |      | 417   |      |       |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 5.7  | 0.06  | 5.3  | 0.07  | 4.8  |       |      |        |      |        |      |        |      |        |      |
| 1531 | 812                                        |      | 738   |      | 651   |      | 538   |      | 383    |      |        |      |        |      |        |      |
|      | 0.09                                       | 8.1  | 0.11  | 7.7  | 0.12  | 7.3  | 0.13  | 7.0  | 0.13   | 7.3  |        |      |        |      |        |      |
| 1561 | 828                                        |      | 755   |      | 671   |      | 564   |      | 422    |      |        |      |        |      |        |      |
|      | 0.10                                       | 8.4  | 0.11  | 7.9  | 0.13  | 7.6  | 0.14  | 7.1  | 0.14   | 7.5  |        |      |        |      |        |      |
| 1633 | 866                                        |      | 797   |      | 717   |      | 623   |      | 496    |      |        |      |        |      |        |      |
|      | 0.11                                       | 9.1  | 0.13  | 8.6  | 0.14  | 8.2  | 0.16  | 7.8  | 0.16   | 7.7  |        |      |        |      |        |      |
| 1922 | 1020                                       |      | 960   |      | 898   |      | 828   |      | 746    |      | 645    |      | 528    |      |        |      |
|      | 0.18                                       | 12.3 | 0.20  | 11.7 | 0.22  | 10.9 | 0.24  | 10.4 | 0.25   | 10.1 | 0.26   | 10.0 | 0.26   | 10.4 |        |      |
| 1983 | 1052                                       |      | 995   |      | 935   |      | 867   |      | 791    |      | 700    |      | 590    |      | 448    |      |
|      | 0.20                                       | 13.0 | 0.22  | 12.5 | 0.24  | 11.7 | 0.26  | 11.2 | 0.27   | 10.8 | 0.28   | 10.7 | 0.29   | 10.7 | 0.29   | 11.5 |
| 2128 | 1129                                       |      | 1075  |      | 1022  |      | 959   |      | 894    |      | 819    |      | 727    |      | 623    |      |
|      | 0.25                                       | 14.4 | 0.27  | 14.3 | 0.29  | 14.1 | 0.31  | 13.7 | 0.33   | 12.2 | 0.34   | 11.9 | 0.35   | 11.3 | 0.36   | 12.4 |
| 2288 | 1214                                       |      | 1164  |      | 1114  |      | 1059  |      | 1000   |      | 935    |      | 865    |      | 776    |      |
|      | 0.31                                       | 15.9 | 0.33  | 15.5 | 0.35  | 14.9 | 0.37  | 14.3 | 0.40   | 14.3 | 0.41   | 13.6 | 0.43   | 12.1 | 0.44   | 13.7 |
| 2436 | 1292                                       |      | 1246  |      | 1199  |      | 1149  |      | 1094   |      | 1039   |      | 974    |      | 907    |      |
|      | 0.37                                       | 17.4 | 0.39  | 17.0 | 0.42  | 16.5 | 0.44  | 16.0 | 0.47   | 16.4 | 0.49   | 15.4 | 0.50   | 14.9 | 0.52   | 15.0 |
| 2798 | 1484                                       |      | 1444  |      | 1403  |      | 1362  |      | 1318   |      | 1270   |      | 1222   |      | 1171   |      |
|      | 0.56                                       | 21   | 0.59  | 21   | 0.62  | 21   | 0.64  | 20   | 0.67   | 22   | 0.70   | 21   | 0.72   | 19.1 | 0.75   | 18.5 |

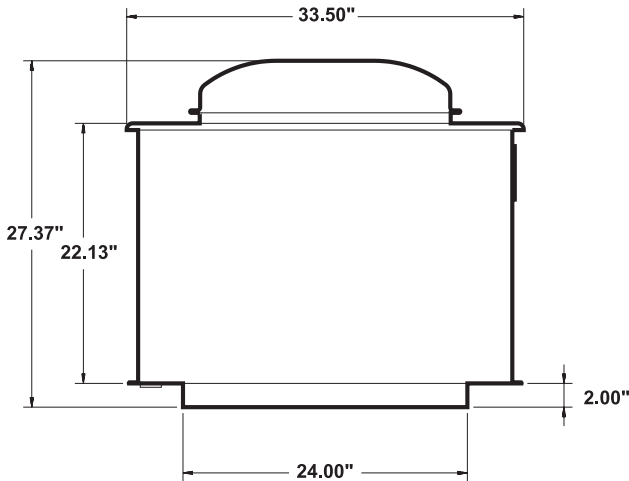
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 2436 | 626                                        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.53                                       | 16.1 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 2798 | 984                                        |      | 909    |      | 828    |      | 742    |      |        |      |        |      |        |      |        |      |
|      | 0.80                                       | 19.3 | 0.81   | 19.6 | 0.81   | 19.9 | 0.81   | 20   |        |      |        |      |        |      |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNU120 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP  | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-----|-------------|---------------|---------------|
|           |     |             | lbs.          | lbs.          |
| PNU120E1  | 1/4 | 710 - 849   | 84            | 120           |
| PNU120E2  | 1/4 | 850 - 1033  | 84            | 120           |
| PNU120E3  | 1/4 | 908 - 1099  | 84            | 120           |
| PNU120E4  | 1/4 | 1100 - 1321 | 84            | 120           |
| PNU120E5  | 1/4 | 1167 - 1369 | 84            | 120           |
| PNU120E6  | 1/4 | 1370 - 1615 | 84            | 120           |
| PNU120F1  | 1/3 | 1415 - 1600 | 87            | 123           |
| PNU120F2  | 1/3 | 1601 - 1787 | 87            | 123           |
| PNU120G1  | 1/2 | 1544 - 1804 | 94            | 130           |
| PNU120G2  | 1/2 | 1805 - 2059 | 94            | 130           |
| PNU120H1  | 3/4 | 1878 - 2082 | 101           | 137           |
| PNU120H2  | 3/4 | 2083 - 2305 | 101           | 137           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 710  | 739                                        |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.02                                       | 4.4  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 908  | 945                                        |      | 638   |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.03                                       | 6.4  | 0.05  | 6.0  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1033 | 1075                                       |      | 815   |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 8.0  | 0.07  | 7.6  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1167 | 1215                                       |      | 987   |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.07                                       | 10.4 | 0.10  | 10.2 |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1321 | 1375                                       |      | 1167  |      | 956   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.11                                       | 10.6 | 0.13  | 9.6  | 0.15  | 8.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1415 | 1473                                       |      | 1275  |      | 1089  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.13                                       | 12.0 | 0.16  | 11.0 | 0.18  | 10.3 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1544 | 1607                                       |      | 1420  |      | 1263  |      | 1062  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.17                                       | 12.5 | 0.20  | 12.4 | 0.23  | 12.3 | 0.24  | 11.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1615 | 1681                                       |      | 1499  |      | 1354  |      | 1166  |      | 939    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.19                                       | 13.6 | 0.22  | 13.4 | 0.26  | 13.4 | 0.28  | 12.9 | 0.28   | 12.6 |        |      |        |      |        |      |        |      |        |      |
| 1787 | 1860                                       |      | 1689  |      | 1557  |      | 1408  |      | 1233   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.26                                       | 15.4 | 0.29  | 14.8 | 0.33  | 14.4 | 0.36  | 14.8 | 0.38   | 16.4 |        |      |        |      |        |      |        |      |        |      |
| 1878 | 1955                                       |      | 1792  |      | 1662  |      | 1529  |      | 1366   |      | 1197   |      |        |      |        |      |        |      |        |      |
|      | 0.30                                       | 16.7 | 0.34  | 16.1 | 0.38  | 15.7 | 0.41  | 16.0 | 0.43   | 17.3 | 0.45   | 19.1 |        |      |        |      |        |      |        |      |
| 2059 | 2144                                       |      | 1995  |      | 1868  |      | 1755  |      | 1620   |      | 1468   |      |        |      |        |      |        |      |        |      |
|      | 0.40                                       | 17.6 | 0.44  | 17.2 | 0.48  | 16.9 | 0.52  | 16.8 | 0.56   | 17.2 | 0.57   | 17.0 |        |      |        |      |        |      |        |      |
| 2305 | 2400                                       |      | 2267  |      | 2143  |      | 2042  |      | 1940   |      | 1815   |      | 1680   |      | 1543   |      | 1372   |      |        |      |
|      | 0.56                                       | 21   | 0.60  | 23   | 0.65  | 21   | 0.70  | 21   | 0.74   | 20   | 0.78   | 19.1 | 0.80   | 19.1 | 0.82   | 22   | 0.82   | 22   |        |      |

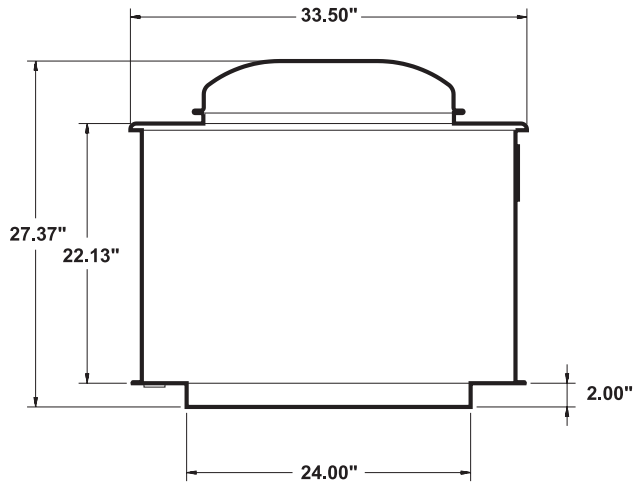
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The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.





# PNU135 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP  | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-----|-------------|---------------|---------------|
|           |     |             | lbs.          | lbs.          |
| PNU135E1  | 1/4 | 795 - 999   | 84            | 120           |
| PNU135E2  | 1/4 | 1000 - 1099 | 84            | 120           |
| PNU135E3  | 1/4 | 1000 - 1199 | 84            | 120           |
| PNU135E4  | 1/4 | 1200 - 1400 | 84            | 120           |
| PNU135F1  | 1/3 | 1122 - 1300 | 87            | 123           |
| PNU135F2  | 1/3 | 1275 - 1551 | 87            | 123           |
| PNU135G1  | 1/2 | 1346 - 1499 | 94            | 130           |
| PNU135G2  | 1/2 | 1500 - 1785 | 94            | 130           |
| PNU135H1  | 3/4 | 1551 - 1749 | 101           | 137           |
| PNU135H2  | 3/4 | 1750 - 2055 | 101           | 137           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 795  | 1143                                       |      | 708   |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.04                                       | 8.2  | 0.06  | 6.8  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 994  | 1429                                       |      | 1087  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.08                                       | 9.4  | 0.09  | 8.2  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1122 | 1613                                       |      | 1308  |      | 997   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.10                                       | 11.0 | 0.13  | 10.2 | 0.14  | 8.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1213 | 1743                                       |      | 1464  |      | 1184  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.13                                       | 12.6 | 0.15  | 12.1 | 0.18  | 10.2 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1346 | 1934                                       |      | 1685  |      | 1432  |      | 1161  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.17                                       | 14.1 | 0.20  | 13.6 | 0.23  | 12.5 | 0.24  | 11.3 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1400 | 2012                                       |      | 1774  |      | 1527  |      | 1275  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.19                                       | 14.9 | 0.22  | 14.5 | 0.25  | 13.7 | 0.27  | 12.4 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1551 | 2229                                       |      | 2016  |      | 1788  |      | 1577  |      | 1333   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.26                                       | 16.3 | 0.29  | 16.2 | 0.32  | 15.4 | 0.35  | 13.7 | 0.37   | 13.2 |        |      |        |      |        |      |        |      |        |      |
| 1785 | 2565                                       |      | 2381  |      | 2187  |      | 1993  |      | 1810   |      | 1599   |      | 1320   |      |        |      |        |      |        |      |
|      | 0.39                                       | 19.6 | 0.43  | 17.6 | 0.46  | 18.6 | 0.49  | 17.6 | 0.53   | 16.8 | 0.55   | 16.1 | 0.55   | 14.7 |        |      |        |      |        |      |
| 2055 | 2953                                       |      | 2793  |      | 2630  |      | 2457  |      | 2291   |      | 2132   |      | 1957   |      | 1772   |      | 1507   |      |        |      |
|      | 0.58                                       | 25   | 0.63  | 21   | 0.67  | 23   | 0.71  | 22   | 0.75   | 21   | 0.79   | 19.5 | 0.82   | 18.9 | 0.83   | 18.3 | 0.83   | 18.3 |        |      |

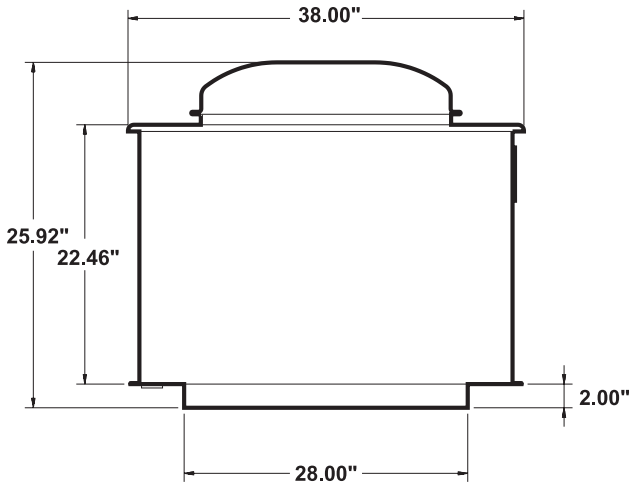
Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.

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The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNU150 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNU150E   | 1/4   | 833 - 1129  | 99            | 176           |
| PNU150F   | 1/3   | 833 - 1250  | 102           | 179           |
| PNU150G   | 1/2   | 1034 - 1432 | 109           | 186           |
| PNU150H   | 3/4   | 1286 - 1632 | 116           | 193           |
| PNU150J   | 1     | 1346 - 1795 | 128           | 205           |
| PNU150K   | 1 1/2 | 1615 - 2064 | 139           | 216           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

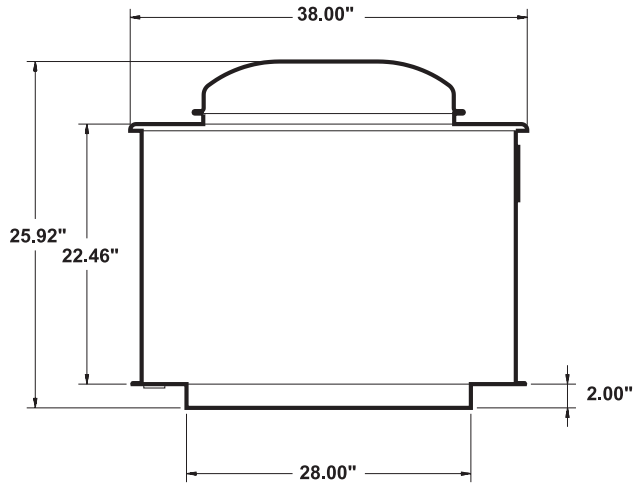
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      | 3.000" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 833  | 1741                                       |      | 1376  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.07                                       | 8.8  | 0.10  | 7.2  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 847  | 1770                                       |      | 1413  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.07                                       | 9.2  | 0.10  | 7.5  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1034 | 2161                                       |      | 1879  |      | 1544  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.12                                       | 10.7 | 0.17  | 10.4 | 0.19  | 10.9 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1129 | 2359                                       |      | 2107  |      | 1812  |      | 1464  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.16                                       | 13.2 | 0.21  | 13.0 | 0.24  | 14.4 | 0.26  | 13.7 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1250 | 2612                                       |      | 2384  |      | 2131  |      | 1843  |      | 1477   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.22                                       | 15.1 | 0.27  | 14.3 | 0.31  | 14.1 | 0.35  | 12.7 | 0.36   | 12.6 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1286 | 2688                                       |      | 2466  |      | 2222  |      | 1947  |      | 1631   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.24                                       | 15.8 | 0.29  | 15.0 | 0.34  | 14.8 | 0.37  | 13.5 | 0.39   | 12.9 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1346 | 2813                                       |      | 2601  |      | 2372  |      | 2117  |      | 1832   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.27                                       | 15.7 | 0.33  | 14.0 | 0.38  | 13.8 | 0.42  | 13.1 | 0.44   | 12.9 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1432 | 2993                                       |      | 2794  |      | 2583  |      | 2355  |      | 2095   |      | 1803   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.33                                       | 17.7 | 0.39  | 15.8 | 0.45  | 16.0 | 0.49  | 14.7 | 0.52   | 15.3 | 0.54   | 14.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1615 | 3375                                       |      | 3199  |      | 3022  |      | 2822  |      | 2613   |      | 2383   |      | 2132   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.47                                       | 21   | 0.54  | 19.6 | 0.61  | 18.5 | 0.66  | 19.4 | 0.71   | 18.3 | 0.74   | 19.1 | 0.77   | 17.9 |        |      |        |      |        |      |        |      |        |      |
| 1632 | 3411                                       |      | 3236  |      | 3062  |      | 2864  |      | 2660   |      | 2432   |      | 2189   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.49                                       | 21   | 0.56  | 20   | 0.63  | 18.9 | 0.68  | 19.7 | 0.73   | 18.7 | 0.76   | 19.4 | 0.79   | 18.4 |        |      |        |      |        |      |        |      |        |      |
| 1795 | 3751                                       |      | 3593  |      | 3434  |      | 3264  |      | 3083   |      | 2892   |      | 2685   |      | 2471   |      | 2219   |      |        |      |        |      |        |      |
|      | 0.65                                       | 23   | 0.73  | 23   | 0.81  | 22   | 0.87  | 22   | 0.93   | 22   | 0.98   | 21   | 1.02   | 19.8 | 1.05   | 19.1 | 1.07   | 18.3 |        |      |        |      |        |      |
| 2064 | 4314                                       |      | 4176  |      | 4038  |      | 3900  |      | 3748   |      | 3590   |      | 3433   |      | 3256   |      | 3075   |      | 2895   |      | 2682   |      |        |      |
|      | 0.99                                       | 30   | 1.08  | 31   | 1.17  | 28   | 1.26  | 27   | 1.33   | 27   | 1.39   | 27   | 1.45   | 26   | 1.50   | 26   | 1.55   | 25   | 1.59   | 24   | 1.62   | 23   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNU165 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNU165E1  | 1/4   | 593 - 846   | 99            | 176           |
| PNU165E2  | 1/4   | 673 - 980   | 99            | 176           |
| PNU165F   | 1/3   | 745 - 1075  | 102           | 179           |
| PNU165G   | 1/2   | 833 - 1227  | 109           | 186           |
| PNU165H   | 3/4   | 1042 - 1408 | 116           | 193           |
| PNU165J   | 1     | 1154 - 1546 | 128           | 205           |
| PNU165K   | 1 1/2 | 1346 - 1771 | 139           | 216           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

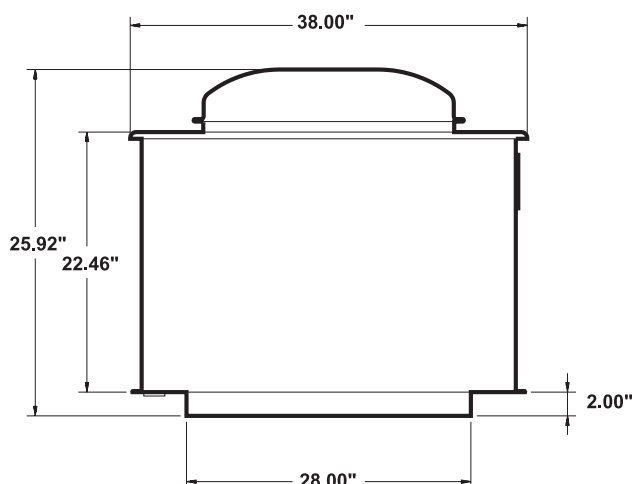
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 593  | 1576                                       |      | 885   |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 5.3  | 0.07  | 4.3  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 673  | 1789                                       |      | 1232  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.07                                       | 6.5  | 0.10  | 5.3  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 745  | 1980                                       |      | 1481  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.09                                       | 7.4  | 0.12  | 6.1  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 833  | 2214                                       |      | 1768  |      | 1222  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.13                                       | 10.8 | 0.16  | 9.8  | 0.18  | 9.8  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 846  | 2249                                       |      | 1809  |      | 1290  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.14                                       | 11.4 | 0.17  | 10.4 | 0.19  | 10.5 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 980  | 2605                                       |      | 2223  |      | 1843  |      | 1205  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.21                                       | 13.3 | 0.24  | 13.1 | 0.28  | 13.4 | 0.27  | 12.8 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1042 | 2770                                       |      | 2409  |      | 2056  |      | 1611  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.25                                       | 14.1 | 0.29  | 13.3 | 0.33  | 13.8 | 0.34  | 12.9 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1075 | 2857                                       |      | 2507  |      | 2166  |      | 1782  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.27                                       | 15.1 | 0.31  | 13.7 | 0.36  | 14.2 | 0.38  | 12.8 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1154 | 3067                                       |      | 2739  |      | 2423  |      | 2092  |      | 1599   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.33                                       | 15.9 | 0.38  | 14.9 | 0.42  | 15.0 | 0.46  | 14.4 | 0.45   | 14.3 |        |      |        |      |        |      |        |      |        |      |
| 1227 | 3262                                       |      | 2951  |      | 2655  |      | 2351  |      | 1984   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.40                                       | 17.0 | 0.45  | 16.5 | 0.49  | 16.2 | 0.54  | 15.6 | 0.56   | 16.0 |        |      |        |      |        |      |        |      |        |      |
| 1346 | 3578                                       |      | 3293  |      | 3022  |      | 2749  |      | 2464   |      | 2084   |      |        |      |        |      |        |      |        |      |
|      | 0.52                                       | 18.4 | 0.58  | 19.0 | 0.63  | 18.4 | 0.68  | 18.5 | 0.73   | 19.4 | 0.73   | 19.2 |        |      |        |      |        |      |        |      |
| 1408 | 3743                                       |      | 3470  |      | 3210  |      | 2951  |      | 2684   |      | 2401   |      | 1930   |      |        |      |        |      |        |      |
|      | 0.60                                       | 19.6 | 0.66  | 20   | 0.71  | 20   | 0.76  | 19.9 | 0.82   | 21   | 0.85   | 21   | 0.81   | 21   |        |      |        |      |        |      |
| 1546 | 4109                                       |      | 3860  |      | 3621  |      | 3387  |      | 3148   |      | 2902   |      | 2644   |      | 2220   |      |        |      |        |      |
|      | 0.79                                       | 21   | 0.85  | 23   | 0.91  | 22   | 0.96  | 23   | 1.03   | 25   | 1.09   | 25   | 1.12   | 24   | 1.08   | 24   |        |      |        |      |
| 1771 | 4708                                       |      | 4487  |      | 4277  |      | 4071  |      | 3866   |      | 3658   |      | 3448   |      | 3225   |      | 2989   |      | 2613   |      |
|      | 1.18                                       | 25   | 1.26  | 27   | 1.32  | 27   | 1.38  | 28   | 1.44   | 30   | 1.52   | 30   | 1.60   | 29   | 1.64   | 29   | 1.68   | 29   | 1.62   | 29   |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNUHP165 PERFORMANCE DATA AND DIMENSIONS



| Fan Model  | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|------------|-------|-------------|---------------|---------------|
|            |       |             | lbs.          | lbs.          |
| PNUHP165E1 | 1/4   | 792 - 1099  | 99            | 176           |
| PNUHP165E2 | 1/4   | 899 - 1233  | 99            | 176           |
| PNUHP165F  | 1/3   | 950 - 1382  | 102           | 179           |
| PNUHP165G  | 1/2   | 1108 - 1573 | 109           | 186           |
| PNUHP165H  | 3/4   | 1279 - 1779 | 116           | 193           |
| PNUHP165J  | 1     | 1330 - 1958 | 128           | 205           |
| PNUHP165K  | 1 1/2 | 1583 - 2241 | 139           | 216           |

Motor Information: Maximum Motor Frame Size 56  
Minimum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 792  | 1102                                       |      | 910   |      | 557   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 6.9  | 0.07  | 4.6  | 0.08  | 4.2  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 899  | 1251                                       |      | 1085  |      | 900   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.07                                       | 8.2  | 0.09  | 5.1  | 0.11  | 5.4  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 950  | 1322                                       |      | 1167  |      | 993   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.08                                       | 8.8  | 0.11  | 6.0  | 0.13  | 6.1  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1099 | 1529                                       |      | 1397  |      | 1251  |      | 1099  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.12                                       | 10.7 | 0.15  | 8.4  | 0.18  | 7.3  | 0.20  | 7.8  |        |      |        |      |        |      |        |      |        |      |        |      |
| 1108 | 1541                                       |      | 1411  |      | 1266  |      | 1115  |      | 655    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.12                                       | 10.8 | 0.15  | 8.0  | 0.18  | 7.4  | 0.20  | 8.0  | 0.19   | 7.9  |        |      |        |      |        |      |        |      |        |      |
| 1233 | 1715                                       |      | 1598  |      | 1473  |      | 1339  |      | 1198   |      | 372    |      |        |      |        |      |        |      |        |      |
|      | 0.16                                       | 12.4 | 0.20  | 10.4 | 0.23  | 9.0  | 0.26  | 9.2  | 0.28   | 9.6  | 0.19   | 10.3 |        |      |        |      |        |      |        |      |
| 1279 | 1779                                       |      | 1666  |      | 1547  |      | 1419  |      | 1287   |      | 1011   |      |        |      |        |      |        |      |        |      |
|      | 0.18                                       | 13.0 | 0.22  | 9.4  | 0.25  | 11.0 | 0.29  | 11.7 | 0.31   | 11.9 | 0.31   | 11.7 |        |      |        |      |        |      |        |      |
| 1330 | 1850                                       |      | 1742  |      | 1629  |      | 1506  |      | 1380   |      | 1191   |      |        |      |        |      |        |      |        |      |
|      | 0.20                                       | 13.7 | 0.24  | 12.0 | 0.28  | 10.2 | 0.31  | 10.1 | 0.34   | 10.9 | 0.35   | 10.9 |        |      |        |      |        |      |        |      |
| 1382 | 1923                                       |      | 1818  |      | 1711  |      | 1593  |      | 1473   |      | 1350   |      | 1015   |      |        |      |        |      |        |      |
|      | 0.22                                       | 14.4 | 0.26  | 12.8 | 0.31  | 11.3 | 0.34  | 10.9 | 0.37   | 11.5 | 0.40   | 11.7 | 0.39   | 11.3 |        |      |        |      |        |      |
| 1573 | 2188                                       |      | 2096  |      | 2005  |      | 1905  |      | 1801   |      | 1696   |      | 1588   |      | 1408   |      |        |      |        |      |
|      | 0.32                                       | 17.0 | 0.37  | 15.9 | 0.42  | 14.7 | 0.46  | 13.7 | 0.50   | 13.7 | 0.54   | 14.3 | 0.57   | 14.7 | 0.58   | 14.7 |        |      |        |      |
| 1583 | 2202                                       |      | 2111  |      | 2020  |      | 1921  |      | 1818   |      | 1713   |      | 1606   |      | 1438   |      |        |      |        |      |
|      | 0.32                                       | 17.1 | 0.37  | 15.2 | 0.43  | 14.2 | 0.47  | 13.9 | 0.51   | 13.9 | 0.55   | 14.4 | 0.57   | 14.9 | 0.59   | 14.9 |        |      |        |      |
| 1779 | 2475                                       |      | 2394  |      | 2312  |      | 2231  |      | 2140   |      | 2048   |      | 1955   |      | 1860   |      | 1765   |      | 1582   |      |
|      | 0.45                                       | 20   | 0.51  | 19.2 | 0.57  | 18.3 | 0.62  | 17.6 | 0.67   | 17.1 | 0.72   | 17.1 | 0.76   | 17.5 | 0.79   | 18.1 | 0.82   | 18.2 | 0.83   | 18.1 |
| 1958 | 2724                                       |      | 2650  |      | 2576  |      | 2503  |      | 2426   |      | 2342   |      | 2258   |      | 2175   |      | 2089   |      | 2002   |      |
|      | 0.60                                       | 23   | 0.66  | 23   | 0.73  | 23   | 0.79  | 23   | 0.85   | 23   | 0.90   | 24   | 0.95   | 25   | 1.00   | 26   | 1.04   | 28   | 1.07   | 27   |
| 2241 | 3117                                       |      | 3053  |      | 2989  |      | 2924  |      | 2860   |      | 2794   |      | 2721   |      | 2648   |      | 2575   |      | 2502   |      |
|      | 0.89                                       | 27   | 0.96  | 26   | 1.03  | 26   | 1.11  | 26   | 1.18   | 25   | 1.25   | 24   | 1.30   | 24   | 1.36   | 24   | 1.42   | 24   | 1.48   | 25   |

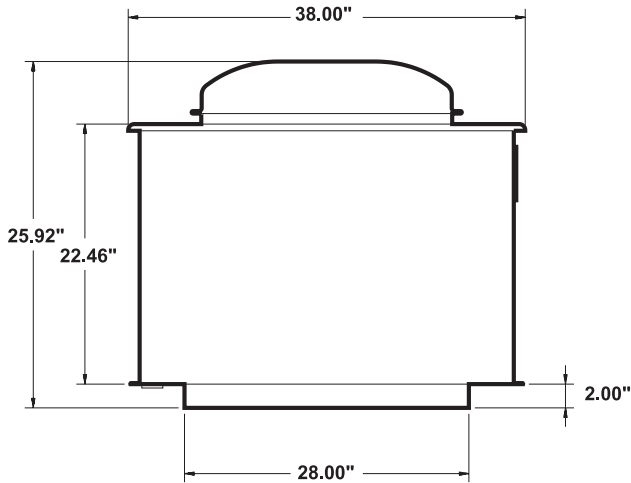
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 1779 | 1285                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.81                                       | 18.3 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1958 | 1916                                       |      | 1722   |      | 1452   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.10                                       | 24   | 1.10   | 23   | 1.08   | 23   |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 2241 | 2427                                       |      | 2351   |      | 2276   |      | 2200   |      | 2041   |      | 1868   |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.52                                       | 25   | 1.56   | 26   | 1.60   | 26   | 1.64   | 26   | 1.65   | 25   | 1.65   | 26   |        |      |        |      |        |      |        |      |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.



# PNUXP165 PERFORMANCE DATA AND DIMENSIONS



| Fan Model  | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|------------|-------|-------------|---------------|---------------|
|            |       |             | lbs.          | lbs.          |
| PNUXP165E1 | 1/4   | 950 - 1355  | 99            | 176           |
| PNUXP165E2 | 1/4   | 1039 - 1524 | 99            | 176           |
| PNUXP165F  | 1/3   | 1188 - 1707 | 102           | 179           |
| PNUXP165G  | 1/2   | 1330 - 1943 | 109           | 186           |
| PNUXP165H  | 3/4   | 1583 - 2197 | 116           | 193           |
| PNUXP165J  | 1     | 1663 - 2419 | 128           | 205           |
| PNUXP165K  | 1 1/2 | 2217 - 2769 | 139           | 216           |

Motor Information: Maximum Motor Frame Size 56  
Maximum "C" Dimension 11.50"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 950  | 527                                        |      | 453   |      | 365   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.04                                       | 5.3  | 0.06  | 4.8  | 0.06  | 5.1  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1039 | 576                                        |      | 508   |      | 434   |      | 349   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.05                                       | 6.0  | 0.07  | 5.1  | 0.08  | 4.9  | 0.09  | 5.5  |        |      |        |      |        |      |        |      |        |      |        |      |
| 1188 | 659                                        |      | 600   |      | 540   |      | 466   |      | 394    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.08                                       | 7.3  | 0.10  | 6.5  | 0.12  | 6.2  | 0.13  | 6.3  | 0.13   | 6.8  |        |      |        |      |        |      |        |      |        |      |
| 1330 | 737                                        |      | 685   |      | 631   |      | 575   |      | 505    |      | 442    |      |        |      |        |      |        |      |        |      |
|      | 0.12                                       | 8.6  | 0.14  | 7.9  | 0.15  | 7.5  | 0.17  | 7.5  | 0.18   | 7.6  | 0.18   | 8.0  |        |      |        |      |        |      |        |      |
| 1355 | 751                                        |      | 700   |      | 647   |      | 594   |      | 525    |      | 462    |      |        |      |        |      |        |      |        |      |
|      | 0.12                                       | 8.9  | 0.14  | 7.7  | 0.16  | 7.7  | 0.18  | 7.7  | 0.19   | 7.9  | 0.19   | 8.3  |        |      |        |      |        |      |        |      |
| 1524 | 845                                        |      | 799   |      | 753   |      | 706   |      | 656    |      | 594    |      | 538    |      |        |      |        |      |        |      |
|      | 0.17                                       | 10.9 | 0.20  | 10.1 | 0.22  | 9.6  | 0.24  | 9.3  | 0.25   | 9.3  | 0.27   | 9.5  | 0.27   | 9.8  |        |      |        |      |        |      |
| 1583 | 878                                        |      | 833   |      | 789   |      | 744   |      | 699    |      | 640    |      | 584    |      | 530    |      |        |      |        |      |
|      | 0.19                                       | 11.6 | 0.22  | 10.8 | 0.24  | 10.3 | 0.26  | 10.1 | 0.28   | 10.3 | 0.29   | 10.4 | 0.30   | 10.5 | 0.30   | 10.8 |        |      |        |      |
| 1663 | 922                                        |      | 880   |      | 838   |      | 795   |      | 752    |      | 702    |      | 645    |      | 594    |      | 525    |      |        |      |
|      | 0.22                                       | 12.5 | 0.25  | 11.8 | 0.28  | 11.2 | 0.30  | 10.9 | 0.32   | 10.8 | 0.33   | 10.8 | 0.35   | 11.0 | 0.35   | 11.3 | 0.35   | 11.7 |        |      |
| 1707 | 946                                        |      | 905   |      | 864   |      | 823   |      | 781    |      | 735    |      | 680    |      | 628    |      | 579    |      |        |      |
|      | 0.24                                       | 13.1 | 0.27  | 12.4 | 0.30  | 11.8 | 0.32  | 11.3 | 0.34   | 11.2 | 0.36   | 11.2 | 0.37   | 11.3 | 0.38   | 11.6 | 0.38   | 12.1 |        |      |
| 1943 | 1077                                       |      | 1041  |      | 1005  |      | 969   |      | 932    |      | 896    |      | 859    |      | 812    |      | 763    |      | 718    |      |
|      | 0.36                                       | 16.1 | 0.39  | 15.5 | 0.42  | 14.8 | 0.45  | 14.4 | 0.47   | 14.0 | 0.50   | 13.1 | 0.52   | 13.9 | 0.54   | 13.9 | 0.55   | 14.0 | 0.56   | 14.2 |
| 2197 | 1218                                       |      | 1186  |      | 1154  |      | 1122  |      | 1090   |      | 1058   |      | 1026   |      | 993    |      | 959    |      | 916    |      |
|      | 0.52                                       | 18.9 | 0.55  | 18.0 | 0.59  | 17.1 | 0.62  | 16.4 | 0.65   | 16.6 | 0.68   | 16.7 | 0.71   | 16.8 | 0.73   | 16.8 | 0.76   | 16.8 | 0.78   | 16.8 |
| 2217 | 1229                                       |      | 1198  |      | 1166  |      | 1134  |      | 1103   |      | 1071   |      | 1038   |      | 1006   |      | 974    |      | 931    |      |
|      | 0.53                                       | 19.1 | 0.57  | 18.6 | 0.60  | 18.1 | 0.64  | 17.7 | 0.67   | 17.4 | 0.70   | 17.2 | 0.72   | 17.1 | 0.75   | 17.1 | 0.78   | 17.1 | 0.79   | 17.1 |
| 2419 | 1341                                       |      | 1312  |      | 1283  |      | 1254  |      | 1225   |      | 1196   |      | 1167   |      | 1137   |      | 1108   |      | 1078   |      |
|      | 0.69                                       | 22   | 0.73  | 21   | 0.77  | 21   | 0.80  | 21   | 0.84   | 21   | 0.88   | 21   | 0.91   | 21   | 0.94   | 21   | 0.96   | 21   | 0.99   | 21   |
| 2769 | 1535                                       |      | 1510  |      | 1485  |      | 1459  |      | 1434   |      | 1409   |      | 1383   |      | 1358   |      | 1332   |      | 1306   |      |
|      | 1.04                                       | 26   | 1.08  | 26   | 1.12  | 25   | 1.17  | 25   | 1.21   | 25   | 1.25   | 24   | 1.30   | 24   | 1.33   | 24   | 1.36   | 24   | 1.40   | 24   |

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 1943 | 675                                        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.56                                       | 14.6 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 2197 | 873                                        |      | 832    |      | 793    |      | 755    |      | 688    |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.79                                       | 16.8 | 0.80   | 16.8 | 0.81   | 17.1 | 0.81   | 17.3 | 0.80   | 17.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 2217 | 889                                        |      | 847    |      | 809    |      | 770    |      | 732    |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.81                                       | 17.1 | 0.83   | 17.1 | 0.83   | 17.3 | 0.83   | 17.5 | 0.83   | 17.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 2419 | 1044                                       |      | 1005   |      | 966    |      | 927    |      | 892    |      | 857    |      | 822    |      | 754    |      |        |      |        |      |        |      |
|      | 1.02                                       | 21   | 1.04   | 21   | 1.06   | 21   | 1.07   | 21   | 1.07   | 21   | 1.08   | 21   | 1.08   | 20   | 1.07   | 20   |        |      |        |      |        |      |
| 2769 | 1280                                       |      | 1255   |      | 1229   |      | 1198   |      | 1164   |      | 1130   |      | 1096   |      | 1063   |      | 1032   |      | 1001   |      | 971    |      |
|      | 1.43                                       | 24   | 1.46   | 24   | 1.50   | 24   | 1.52   | 24   | 1.55   | 24   | 1.57   | 24   | 1.59   | 24   | 1.61   | 24   | 1.61   | 24   | 1.61   | 24   | 1.61   | 24   |

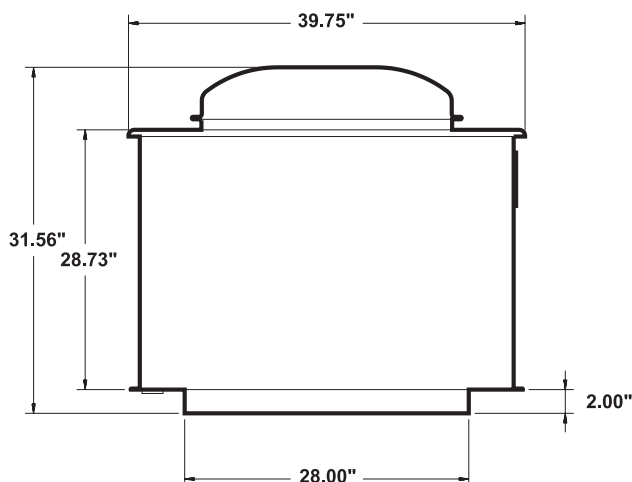
Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.





# PNU185 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNU185E   | 1/4   | 522 - 784   | 132           | 232           |
| PNU185F   | 1/3   | 653 - 862   | 134           | 234           |
| PNU185G   | 1/2   | 711 - 984   | 138           | 238           |
| PNU185H   | 3/4   | 847 - 1129  | 140           | 240           |
| PNU185J   | 1     | 949 - 1246  | 152           | 252           |
| PNU185K   | 1 1/2 | 1034 - 1432 | 163           | 263           |
| PNU185L   | 2     | 1231 - 1556 | 174           | 274           |
| PNU185M   | 3     | 1443 - 1811 | 187           | 287           |

Motor Information: Maximum Motor Frame Size 182T‡  
Maximum "C" Dimension 15.00"

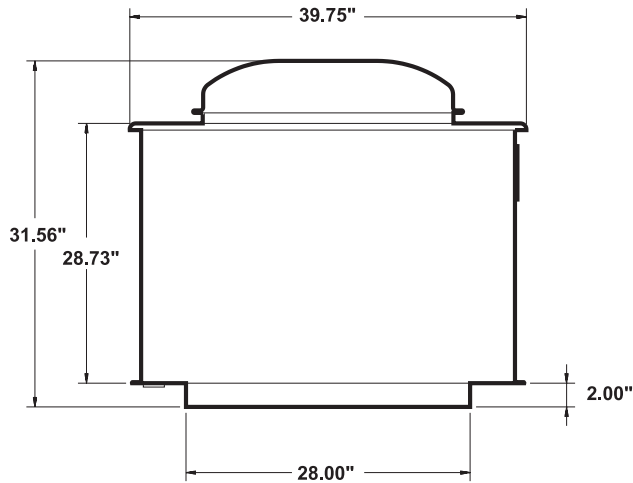
| RPM  | CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|-----------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                             |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      | 3.000" |      | 3.500" |      |
|      | BHP                               | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 522  | 1932                              |      | 1125  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.06                              | 6.2  | 0.08  | 5.2  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 653  | 2417                              |      | 1810  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.12                              | 9.0  | 0.15  | 8.1  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 711  | 2632                              |      | 2074  |      | 1411  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.15                              | 9.1  | 0.19  | 8.8  | 0.20  | 7.7  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 784  | 2902                              |      | 2409  |      | 1861  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.21                              | 11.1 | 0.24  | 11.1 | 0.27  | 9.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 847  | 3135                              |      | 2695  |      | 2190  |      | 1566  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.26                              | 10.7 | 0.30  | 10.6 | 0.33  | 9.4  | 0.33  | 9.4  |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 862  | 3191                              |      | 2762  |      | 2267  |      | 1668  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.27                              | 11.0 | 0.32  | 10.9 | 0.35  | 9.8  | 0.35  | 9.8  |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 949  | 3513                              |      | 3146  |      | 2677  |      | 2220  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.36                              | 13.3 | 0.42  | 13.4 | 0.45  | 13.3 | 0.47  | 12.5 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 984  | 3643                              |      | 3292  |      | 2836  |      | 2406  |      | 1849   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.40                              | 14.3 | 0.46  | 14.5 | 0.49  | 14.5 | 0.52  | 13.6 | 0.52   | 13.6 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1034 | 3828                              |      | 3494  |      | 3060  |      | 2665  |      | 2185   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.47                              | 15.6 | 0.53  | 15.7 | 0.56  | 15.7 | 0.60  | 15.0 | 0.61   | 15.0 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1129 | 4179                              |      | 3874  |      | 3499  |      | 3126  |      | 2740   |      | 2263   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.60                              | 19.5 | 0.67  | 17.2 | 0.72  | 17.4 | 0.76  | 15.8 | 0.78   | 14.2 | 0.78   | 14.7 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1231 | 4557                              |      | 4277  |      | 3960  |      | 3590  |      | 3266   |      | 2897   |      | 2440   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.78                              | 18.5 | 0.85  | 18.3 | 0.91  | 17.3 | 0.95  | 16.5 | 1.00   | 15.8 | 1.02   | 15.0 | 1.01   | 14.1 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1246 | 4613                              |      | 4335  |      | 4026  |      | 3657  |      | 3340   |      | 2977   |      | 2540   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.81                              | 18.9 | 0.88  | 18.7 | 0.94  | 17.8 | 0.98  | 16.9 | 1.03   | 16.2 | 1.05   | 15.5 | 1.05   | 14.5 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1432 | 5301                              |      | 5060  |      | 4819  |      | 4510  |      | 4193   |      | 3917   |      | 3613   |      | 3296   |      | 2888   |      |        |      |        |      |        |      |        |      |
|      | 1.22                              | 23   | 1.31  | 22   | 1.39  | 22   | 1.44  | 21   | 1.49   | 21   | 1.54   | 21   | 1.58   | 22   | 1.61   | 20   | 1.59   | 19.8 |        |      |        |      |        |      |        |      |
| 1443 | 5342                              |      | 5103  |      | 4863  |      | 4560  |      | 4242   |      | 3968   |      | 3670   |      | 3355   |      | 2962   |      |        |      |        |      |        |      |        |      |
|      | 1.25                              | 23   | 1.34  | 23   | 1.42  | 23   | 1.48  | 22   | 1.52   | 21   | 1.58   | 22   | 1.61   | 22   | 1.64   | 21   | 1.63   | 20   |        |      |        |      |        |      |        |      |
| 1556 | 5760                              |      | 5538  |      | 5316  |      | 5064  |      | 4762   |      | 4485   |      | 4231   |      | 3951   |      | 3659   |      | 3310   |      | 2925   |      |        |      |        |      |
|      | 1.57                              | 29   | 1.66  | 26   | 1.75  | 25   | 1.82  | 24   | 1.87   | 23   | 1.93   | 22   | 1.98   | 23   | 2.02   | 21   | 2.05   | 21   | 2.05   | 18.5 | 2.02   | 18.5 |        |      |        |      |
| 1811 | 6704                              |      | 6513  |      | 6323  |      | 6132  |      | 5911   |      | 5651   |      | 5392   |      | 5171   |      | 4953   |      | 4719   |      | 4468   |      | 3916   |      |        |      |
|      | 2.47                              | 37   | 2.57  | 37   | 2.68  | 35   | 2.78  | 35   | 2.87   | 34   | 2.92   | 31   | 2.98   | 30   | 3.05   | 31   | 3.11   | 30   | 3.17   | 28   | 3.20   | 26   | 3.23   | 26   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNU200 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNU200E   | 1/4   | 507 - 752   | 132           | 232           |
| PNU200F   | 1/3   | 547 - 828   | 134           | 234           |
| PNU200G   | 1/2   | 614 - 948   | 138           | 238           |
| PNU200H   | 3/4   | 714 - 1085  | 140           | 240           |
| PNU200J   | 1     | 795 - 1194  | 152           | 252           |
| PNU200K   | 1 1/2 | 1000 - 1359 | 163           | 263           |
| PNU200L   | 2     | 1117 - 1496 | 174           | 274           |
| PNU200M   | 3     | 1278 - 1712 | 187           | 287           |

Motor Information: Maximum Motor Frame Size 182T‡  
Maximum "C" Dimension 15.00"

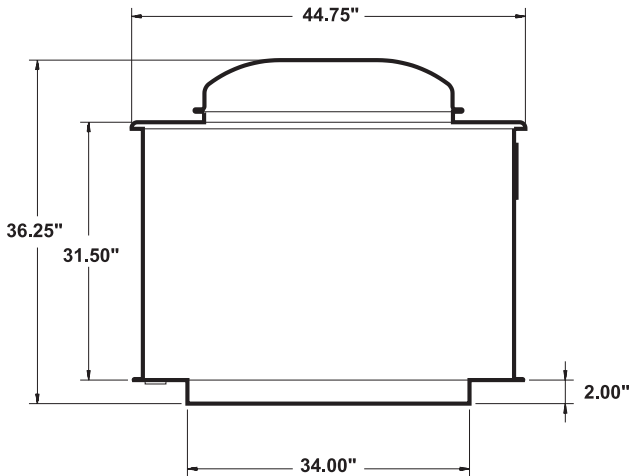
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.750" |      | 3.000" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 507  | 2243                                       |      | 1366  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.06                                       | 5.9  | 0.10  | 5.6  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 547  | 2420                                       |      | 1638  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.08                                       | 6.7  | 0.12  | 6.5  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 614  | 2716                                       |      | 2036  |      | 811   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.11                                       | 7.6  | 0.16  | 7.3  | 0.13  | 7.6  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 714  | 3159                                       |      | 2583  |      | 1911  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.18                                       | 9.4  | 0.23  | 9.0  | 0.27  | 8.3  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 752  | 3327                                       |      | 2778  |      | 2172  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.21                                       | 10.2 | 0.26  | 9.8  | 0.31  | 9.3  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 795  | 3517                                       |      | 2995  |      | 2454  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.24                                       | 11.0 | 0.30  | 10.6 | 0.36  | 9.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 828  | 3663                                       |      | 3159  |      | 2648  |      | 1910  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.27                                       | 11.7 | 0.33  | 11.2 | 0.39  | 12.5 | 0.40  | 8.8  |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 948  | 4194                                       |      | 3746  |      | 3326  |      | 2841  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.41                                       | 13.9 | 0.47  | 14.0 | 0.55  | 14.1 | 0.61  | 11.4 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1000 | 4424                                       |      | 3997  |      | 3603  |      | 3161  |      | 2627   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.48                                       | 15.7 | 0.54  | 15.1 | 0.62  | 16.3 | 0.69  | 13.0 | 0.72   | 12.2 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1085 | 4800                                       |      | 4406  |      | 4038  |      | 3649  |      | 3216   |      | 2621   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.61                                       | 17.8 | 0.67  | 17.2 | 0.76  | 17.4 | 0.85  | 15.0 | 0.91   | 14.2 | 0.90   | 12.9 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1117 | 4941                                       |      | 4559  |      | 4199  |      | 3829  |      | 3428   |      | 2927   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.66                                       | 18.7 | 0.73  | 18.2 | 0.82  | 20   | 0.91  | 16.3 | 0.98   | 15.0 | 1.00   | 13.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1194 | 5282                                       |      | 4924  |      | 4582  |      | 4253  |      | 3878   |      | 3468   |      | 2924   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.81                                       | 21   | 0.88  | 21   | 0.97  | 23   | 1.08  | 18.1 | 1.15   | 16.6 | 1.21   | 15.2 | 1.20   | 15.3 |        |      |        |      |        |      |        |      |        |      |
| 1278 | 5654                                       |      | 5319  |      | 4994  |      | 4687  |      | 4355   |      | 4005   |      | 3596   |      | 3046   |      |        |      |        |      |        |      |        |      |
|      | 0.99                                       | 23   | 1.07  | 24   | 1.16  | 26   | 1.27  | 21   | 1.36   | 18.3 | 1.45   | 17.7 | 1.49   | 17.5 | 1.47   | 17.3 |        |      |        |      |        |      |        |      |
| 1359 | 6012                                       |      | 5698  |      | 5386  |      | 5097  |      | 804    |      | 4474   |      | 4139   |      | 3737   |      | 3186   |      |        |      |        |      |        |      |
|      | 1.19                                       | 25   | 1.27  | 26   | 1.36  | 26   | 1.48  | 23   | 1.59   | 21   | 1.68   | 20   | 1.77   | 20   | 1.80   | 19.3 | 1.76   | 21   |        |      |        |      |        |      |
| 1496 | 6618                                       |      | 6332  |      | 6047  |      | 5778  |      | 5515   |      | 5242   |      | 4943   |      | 4643   |      | 4290   |      | 3902   |      |        |      |        |      |
|      | 1.58                                       | 29   | 1.67  | 28   | 1.77  | 26   | 1.89  | 26   | 2.02   | 25   | 2.14   | 25   | 2.24   | 25   | 2.33   | 25   | 2.38   | 24   | 2.40   | 24   |        |      |        |      |
| 1712 | 7574                                       |      | 7324  |      | 7075  |      | 6825  |      | 6596   |      | 6366   |      | 6137   |      | 5881   |      | 5619   |      | 5357   |      | 4742   |      | 4360   |      |
|      | 2.36                                       | 35   | 2.47  | 34   | 2.58  | 32   | 2.68  | 32   | 2.83   | 31   | 2.98   | 30   | 3.13   | 30   | 3.25   | 30   | 3.36   | 29   | 3.47   | 28   | 3.58   | 29   | 3.57   | 29   |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNU245 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range  | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|------------|---------------|---------------|
|           |       |            | lbs.          | lbs.          |
| PNU245F   | 1/3   | 361 - 553  | 156           | 283           |
| PNU245G   | 1/2   | 427 - 633  | 158           | 285           |
| PNU245H   | 3/4   | 486 - 725  | 164           | 291           |
| PNU245J   | 1     | 522 - 797  | 176           | 303           |
| PNU245K   | 1 1/2 | 653 - 913  | 187           | 314           |
| PNU245L   | 2     | 706 - 1005 | 198           | 325           |
| PNU245M   | 3     | 924 - 1150 | 211           | 338           |

Motor Information: Maximum Motor Frame Size 182T‡  
Maximum "C" Dimension 15.00"

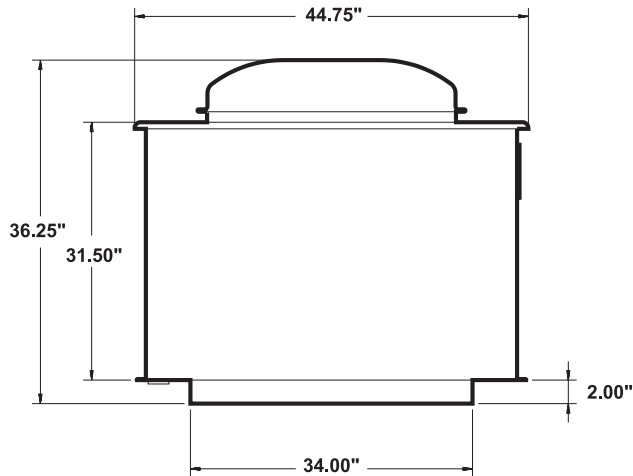
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 361  | 2933                                       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.08                                       | 6.9  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 427  | 3469                                       |      | 2175  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.13                                       | 8.3  | 0.17  | 7.8  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 486  | 3948                                       |      | 2861  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.19                                       | 9.8  | 0.24  | 9.0  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 522  | 4241                                       |      | 3241  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.24                                       | 11.0 | 0.30  | 10.0 |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 553  | 4492                                       |      | 3560  |      | 2304  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.28                                       | 11.7 | 0.35  | 10.8 | 0.36  | 9.5  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 633  | 5142                                       |      | 4334  |      | 3429  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.42                                       | 14.3 | 0.50  | 12.8 | 0.54  | 11.0 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 653  | 5305                                       |      | 4522  |      | 3665  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.47                                       | 14.6 | 0.54  | 13.0 | 0.60  | 11.7 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 706  | 5735                                       |      | 5014  |      | 4246  |      | 3303  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.59                                       | 16.1 | 0.67  | 14.6 | 0.74  | 13.2 | 0.75  | 12.4 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 725  | 5890                                       |      | 5188  |      | 4446  |      | 3588  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.64                                       | 16.6 | 0.73  | 15.3 | 0.79  | 13.8 | 0.82  | 12.7 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 797  | 6474                                       |      | 5840  |      | 5185  |      | 4457  |      | 3510   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.84                                       | 18.9 | 0.95  | 17.5 | 1.02  | 16.4 | 1.08  | 14.7 | 1.07   | 13.1 |        |      |        |      |        |      |        |      |        |      |        |      |
| 913  | 7417                                       |      | 6863  |      | 6297  |      | 5706  |      | 5060   |      | 4290   |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.27                                       | 23   | 1.38  | 21   | 1.48  | 19.8 | 1.56  | 18.6 | 1.62   | 17.5 | 1.63   | 16.6 |        |      |        |      |        |      |        |      |        |      |
| 924  | 7506                                       |      | 6959  |      | 6400  |      | 5820  |      | 5190   |      | 4470   |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.31                                       | 23   | 1.43  | 21   | 1.53  | 21   | 1.61  | 19.4 | 1.68   | 18.3 | 1.70   | 17.4 |        |      |        |      |        |      |        |      |        |      |
| 1005 | 8164                                       |      | 7661  |      | 7151  |      | 6632  |      | 6074   |      | 5471   |      | 4779   |      | 3459   |      |        |      |        |      |        |      |
|      | 1.69                                       | 25   | 1.82  | 24   | 1.93  | 23   | 2.03  | 22   | 2.11   | 21   | 2.17   | 19.9 | 2.18   | 18.0 | 1.98   | 18.8 |        |      |        |      |        |      |
| 1150 | 9342                                       |      | 8902  |      | 8462  |      | 8010  |      | 7556   |      | 7068   |      | 6570   |      | 6003   |      | 5346   |      | 4284   |      |        |      |
|      | 2.53                                       | 28   | 2.67  | 27   | 2.82  | 27   | 2.94  | 26   | 3.05   | 25   | 3.14   | 24   | 3.23   | 22   | 3.25   | 23   | 3.24   | 22   | 3.06   | 22   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNUHP245 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNUHP245F | 1/3   | 457 - 690   | 156           | 283           |
| PNUHP245G | 1/2   | 554 - 790   | 158           | 285           |
| PNUHP245H | 3/4   | 639 - 908   | 164           | 291           |
| PNUHP245J | 1     | 707 - 992   | 176           | 303           |
| PNUHP245K | 1 1/2 | 792 - 1141  | 187           | 314           |
| PNUHP245L | 2     | 942 - 1218  | 198           | 325           |
| PNUHP245M | 3     | 1089 - 1408 | 211           | 338           |

Motor Information: Maximum Motor Frame Size 182T‡  
Maximum "C" Dimension 15.00"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 457  | 1950                                       |      | 1451  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.06                                       | 4.7  | 0.10  | 3.0  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 554  | 2364                                       |      | 1981  |      | 1386  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.11                                       | 6.6  | 0.16  | 4.6  | 0.19  | 4.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 639  | 2726                                       |      | 2406  |      | 2009  |      | 1237  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.17                                       | 8.4  | 0.23  | 6.4  | 0.28  | 5.7  | 0.27  | 6.0  |        |      |        |      |        |      |        |      |        |      |        |      |
| 690  | 2944                                       |      | 2654  |      | 2306  |      | 1801  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.21                                       | 9.5  | 0.27  | 7.6  | 0.33  | 6.6  | 0.37  | 7.2  |        |      |        |      |        |      |        |      |        |      |        |      |
| 707  | 3016                                       |      | 2733  |      | 2403  |      | 140   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.22                                       | 9.9  | 0.29  | 8.0  | 0.35  | 6.9  | 0.39  | 8.4  |        |      |        |      |        |      |        |      |        |      |        |      |
| 790  | 3370                                       |      | 3117  |      | 2835  |      | 2505  |      | 2023   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.31                                       | 11.5 | 0.39  | 9.8  | 0.46  | 8.7  | 0.52  | 8.1  | 0.55   | 8.9  |        |      |        |      |        |      |        |      |        |      |
| 792  | 3379                                       |      | 3126  |      | 2845  |      | 2517  |      | 2040   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.31                                       | 11.5 | 0.39  | 10.6 | 0.46  | 9.6  | 0.52  | 8.4  | 0.55   | 9.4  |        |      |        |      |        |      |        |      |        |      |
| 908  | 3874                                       |      | 3654  |      | 3424  |      | 3166  |      | 2867   |      | 2466   |      |        |      |        |      |        |      |        |      |
|      | 0.47                                       | 14.2 | 0.56  | 12.5 | 0.64  | 11.1 | 0.72  | 10.4 | 0.79   | 10.0 | 0.82   | 12.5 |        |      |        |      |        |      |        |      |
| 942  | 4019                                       |      | 3807  |      | 3590  |      | 3341  |      | 3067   |      | 2741   |      | 2225   |      |        |      |        |      |        |      |
|      | 0.52                                       | 15.0 | 0.61  | 13.3 | 0.70  | 11.9 | 0.79  | 11.1 | 0.86   | 10.6 | 0.92   | 10.9 | 0.91   | 11.8 |        |      |        |      |        |      |
| 992  | 4232                                       |      | 4031  |      | 3829  |      | 3596  |      | 3354   |      | 3068   |      | 2680   |      | 2145   |      |        |      |        |      |
|      | 0.61                                       | 16.3 | 0.70  | 14.6 | 0.80  | 13.1 | 0.89  | 12.2 | 0.97   | 11.6 | 1.04   | 11.5 | 1.07   | 12.3 | 1.06   | 13.1 |        |      |        |      |
| 1089 | 4646                                       |      | 4462  |      | 4279  |      | 4080  |      | 3865   |      | 3635   |      | 3375   |      | 3038   |      | 2582   |      |        |      |
|      | 0.80                                       | 18.8 | 0.91  | 16.9 | 1.02  | 15.7 | 1.12  | 15.0 | 1.21   | 14.3 | 1.30   | 13.6 | 1.37   | 13.4 | 1.42   | 13.7 | 1.41   | 14.0 |        |      |
| 1141 | 4868                                       |      | 4693  |      | 4517  |      | 4335  |      | 4130   |      | 3924   |      | 3682   |      | 3433   |      | 3058   |      | 2597   |      |
|      | 0.92                                       | 20   | 1.03  | 18.9 | 1.15  | 17.5 | 1.25  | 16.4 | 1.35   | 15.9 | 1.45   | 15.1 | 1.53   | 14.6 | 1.61   | 14.6 | 1.63   | 15.0 | 1.61   | 15.3 |
| 1218 | 5197                                       |      | 5032  |      | 4868  |      | 4704  |      | 4516   |      | 4323   |      | 4125   |      | 3892   |      | 3660   |      | 3307   |      |
|      | 1.12                                       | 22   | 1.24  | 22   | 1.36  | 21   | 1.48  | 19.1 | 1.59   | 18.7 | 1.69   | 18.0 | 1.80   | 17.1 | 1.88   | 16.6 | 1.96   | 16.6 | 1.98   | 17.0 |
| 1408 | 6007                                       |      | 5865  |      | 5723  |      | 5581  |      | 5439   |      | 5278   |      | 5111   |      | 4945   |      | 4772   |      | 4571   |      |
|      | 1.73                                       | 28   | 1.86  | 27   | 2.00  | 26   | 2.14  | 25   | 2.28   | 24   | 2.41   | 24   | 2.53   | 23   | 2.65   | 23   | 2.77   | 22   | 2.86   | 21   |

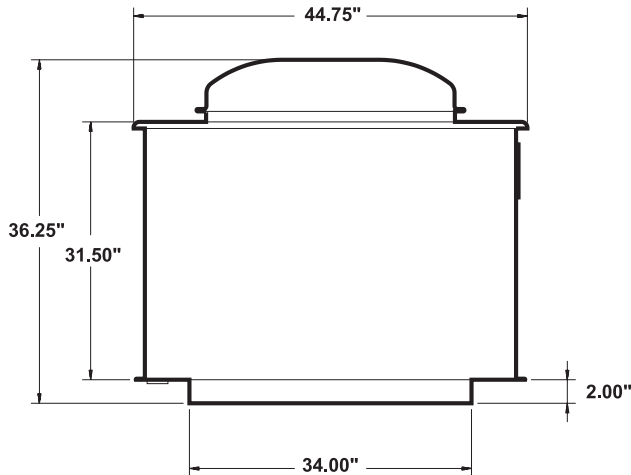
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.50"                                      |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 1218 | 2891                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.97                                       | 17.5 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1408 | 4369                                       |      | 4152   |      | 3832   |      | 3489   |      | 3086   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 2.96                                       | 21   | 3.04   | 22   | 3.06   | 22   | 3.06   | 22   | 3.01   | 23   |        |      |        |      |        |      |        |      |        |      |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNUXP245 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNUXP245F | 1/3   | 583 - 827   | 156           | 283           |
| PNUXP245G | 1/2   | 665 - 946   | 158           | 285           |
| PNUXP245H | 3/4   | 792 - 1088  | 164           | 291           |
| PNUXP245J | 1     | 831 - 1188  | 176           | 303           |
| PNUXP245K | 1 1/2 | 950 - 1367  | 187           | 314           |
| PNUXP245L | 2     | 1167 - 1459 | 198           | 325           |
| PNUXP245M | 3     | 1289 - 1687 | 211           | 338           |

Motor Information: Maximum Motor Frame Size 182T‡  
Maximum "C" Dimension 15.00"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 583  | 1340                                       |      | 1112  |      | 791   |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.09                                       | 5.0  | 0.11  | 3.2  | 0.13  | 3.3  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 665  | 1529                                       |      | 1335  |      | 1076  |      | 705   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.13                                       | 6.2  | 0.16  | 4.8  | 0.19  | 4.8  | 0.19  | 4.4  |        |      |        |      |        |      |        |      |        |      |        |      |
| 792  | 1821                                       |      | 1662  |      | 1483  |      | 1242  |      | 954    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.21                                       | 8.1  | 0.25  | 6.9  | 0.29  | 6.8  | 0.31  | 6.4  | 0.32   | 7.3  |        |      |        |      |        |      |        |      |        |      |
| 827  | 1901                                       |      | 1749  |      | 1580  |      | 1360  |      | 1131   |      | 679    |      |        |      |        |      |        |      |        |      |
|      | 0.24                                       | 8.6  | 0.28  | 7.4  | 0.32  | 7.3  | 0.35  | 7.0  | 0.37   | 7.7  | 0.34   | 8.4  |        |      |        |      |        |      |        |      |
| 831  | 1910                                       |      | 1759  |      | 1591  |      | 1374  |      | 1145   |      | 716    |      |        |      |        |      |        |      |        |      |
|      | 0.25                                       | 8.7  | 0.29  | 7.5  | 0.32  | 7.4  | 0.36  | 7.0  | 0.37   | 7.7  | 0.35   | 8.4  |        |      |        |      |        |      |        |      |
| 946  | 2175                                       |      | 2042  |      | 1903  |      | 1749  |      | 1541   |      | 1340   |      | 1033   |      |        |      |        |      |        |      |
|      | 0.36                                       | 10.5 | 0.41  | 9.3  | 0.45  | 9.1  | 0.49  | 8.8  | 0.53   | 8.9  | 0.55   | 9.3  | 0.54   | 9.8  |        |      |        |      |        |      |
| 950  | 2184                                       |      | 2052  |      | 1913  |      | 1760  |      | 1554   |      | 1354   |      | 1058   |      |        |      |        |      |        |      |
|      | 0.36                                       | 10.6 | 0.41  | 9.4  | 0.46  | 9.2  | 0.50  | 8.9  | 0.53   | 9.0  | 0.55   | 9.4  | 0.55   | 9.9  |        |      |        |      |        |      |
| 1088 | 2501                                       |      | 2386  |      | 2271  |      | 2141  |      | 2006   |      | 1825   |      | 1648   |      | 1466   |      | 1164   |      |        |      |
|      | 0.54                                       | 13.4 | 0.60  | 12.4 | 0.66  | 11.9 | 0.70  | 11.6 | 0.75   | 11.1 | 0.79   | 11.4 | 0.81   | 11.6 | 0.83   | 12.0 | 0.82   | 12.3 |        |      |
| 1167 | 2683                                       |      | 2575  |      | 2468  |      | 2352  |      | 2228   |      | 2085   |      | 1915   |      | 1751   |      | 1587   |      | 1319   |      |
|      | 0.67                                       | 15.3 | 0.73  | 14.2 | 0.79  | 13.6 | 0.84  | 13.3 | 0.89   | 12.6 | 0.94   | 12.8 | 0.98   | 13.0 | 1.01   | 13.2 | 1.03   | 13.4 | 1.02   | 13.7 |
| 1188 | 2731                                       |      | 2625  |      | 2520  |      | 2408  |      | 2285   |      | 2152   |      | 1986   |      | 1823   |      | 1665   |      | 1431   |      |
|      | 0.71                                       | 15.8 | 0.77  | 15.0 | 0.83  | 14.1 | 0.88  | 13.8 | 0.93   | 13.1 | 0.98   | 13.2 | 1.02   | 13.4 | 1.06   | 13.6 | 1.08   | 13.7 | 1.08   | 14.0 |
| 1289 | 2963                                       |      | 2866  |      | 2769  |      | 2671  |      | 2560   |      | 2447   |      | 2318   |      | 2165   |      | 2014   |      | 1867   |      |
|      | 0.90                                       | 18.1 | 0.97  | 17.2 | 1.03  | 16.6 | 1.10  | 16.3 | 1.15   | 15.6 | 1.21   | 15.6 | 1.26   | 15.6 | 1.30   | 15.7 | 1.34   | 15.8 | 1.36   | 15.8 |
| 1367 | 3142                                       |      | 3051  |      | 2959  |      | 2867  |      | 2768   |      | 2661   |      | 2555   |      | 2422   |      | 2277   |      | 2135   |      |
|      | 1.07                                       | 20   | 1.14  | 19.3 | 1.21  | 18.6 | 1.28  | 18.3 | 1.35   | 17.7 | 1.40   | 17.6 | 1.46   | 17.6 | 1.51   | 17.5 | 1.56   | 17.5 | 1.60   | 17.4 |
| 1459 | 3354                                       |      | 3268  |      | 3182  |      | 3096  |      | 3010   |      | 2910   |      | 2810   |      | 2710   |      | 2581   |      | 2446   |      |
|      | 1.30                                       | 22   | 1.38  | 21   | 1.45  | 21   | 1.53  | 20   | 1.60   | 19.6 | 1.66   | 19.5 | 1.72   | 19.4 | 1.78   | 19.3 | 1.83   | 19.3 | 1.89   | 19.3 |
| 1687 | 3878                                       |      | 3804  |      | 3729  |      | 3655  |      | 3581   |      | 3506   |      | 3424   |      | 3338   |      | 3251   |      | 3165   |      |
|      | 2.01                                       | 27   | 2.09  | 26   | 2.18  | 25   | 2.27  | 25   | 2.35   | 23   | 2.44   | 23   | 2.52   | 23   | 2.58   | 23   | 2.65   | 23   | 2.72   | 23   |

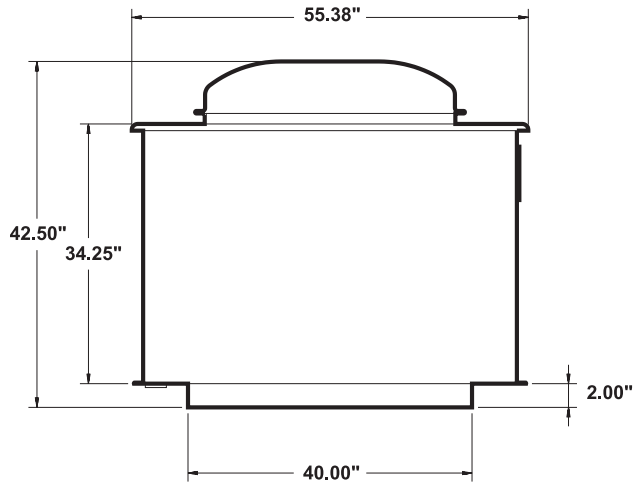
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 1188 | 1115                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.05                                       | 14.3 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1289 | 1695                                       |      | 1450   |      | 1124   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.38                                       | 15.9 | 1.37   | 16.1 | 1.31   | 16.5 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1367 | 1997                                       |      | 1853   |      | 1627   |      | 1354   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.62                                       | 17.5 | 1.64   | 17.5 | 1.64   | 17.6 | 1.60   | 17.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 1459 | 2311                                       |      | 2182   |      | 2053   |      | 1879   |      | 1667   |      | 1392   |      | 978    |      |        |      |        |      |        |      |
|      | 1.94                                       | 19.3 | 1.96   | 19.3 | 1.99   | 19.3 | 2.00   | 19.4 | 1.99   | 19.4 | 1.94   | 19.5 | 1.76   | 20   |        |      |        |      |        |      |
| 1687 | 3066                                       |      | 2949   |      | 2832   |      | 2715   |      | 2602   |      | 2490   |      | 2379   |      | 2242   |      | 2059   |      | 1861   |      |
|      | 2.79                                       | 23   | 2.85   | 23   | 2.91   | 23   | 2.97   | 24   | 3.00   | 24   | 3.03   | 24   | 3.06   | 24   | 3.08   | 24   | 3.08   | 24   | 3.06   | 24   |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNU300 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-----------|---------------|---------------|
|           |       |           | lbs.          | lbs.          |
| PNU300H   | 3/4   | 398 - 530 | 280           | 460           |
| PNU300J   | 1     | 430 - 574 | 284           | 464           |
| PNU300K   | 1 1/2 | 516 - 660 | 293           | 473           |
| PNU300L   | 2     | 563 - 719 | 303           | 483           |
| PNU300M   | 3     | 644 - 845 | 362           | 542           |
| PNU300N   | 5     | 838 - 987 | 402           | 582           |

Motor Information: Maximum Motor Frame Size 215T‡  
Maximum "C" Dimension 15.00"

| RPM | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|     | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      |
|     | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 398 | 5896                                       |      | 4504  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.26                                       | 8.0  | 0.33  | 7.3  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 430 | 6370                                       |      | 5095  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.32                                       | 9.3  | 0.41  | 8.6  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 516 | 7644                                       |      | 6615  |      | 5438  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.56                                       | 11.5 | 0.66  | 10.3 | 0.76  | 9.4  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 530 | 7852                                       |      | 6858  |      | 5727  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.60                                       | 12.1 | 0.71  | 11.0 | 0.81  | 9.9  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 563 | 8341                                       |      | 7421  |      | 6373  |      | 5078  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.72                                       | 13.8 | 0.83  | 13.0 | 0.95  | 11.8 | 1.01  | 11.5 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 574 | 8504                                       |      | 7607  |      | 6580  |      | 5355  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.77                                       | 14.3 | 0.88  | 13.6 | 0.99  | 12.3 | 1.07  | 12.0 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 644 | 9541                                       |      | 8762  |      | 7848  |      | 6910  |      | 5701   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.08                                       | 16.4 | 1.21  | 15.3 | 1.34  | 14.6 | 1.46  | 13.8 | 1.51   | 13.0 |        |      |        |      |        |      |        |      |        |      |        |      |
| 660 | 9778                                       |      | 9021  |      | 8132  |      | 7233  |      | 6114   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.16                                       | 17.2 | 1.29  | 16.1 | 1.43  | 15.3 | 1.55  | 14.5 | 1.63   | 13.7 |        |      |        |      |        |      |        |      |        |      |        |      |
| 719 | 10652                                      |      | 9965  |      | 9168  |      | 8354  |      | 7464   |      | 6347   |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.50                                       | 20   | 1.64  | 19.9 | 1.79  | 19.3 | 1.93  | 18.6 | 2.06   | 18.5 | 2.10   | 17.7 |        |      |        |      |        |      |        |      |        |      |
| 838 | 12415                                      |      | 11833 |      | 11197 |      | 10482 |      | 9790   |      | 9055   |      | 8196   |      |        |      |        |      |        |      |        |      |
|     | 2.38                                       | 27   | 2.54  | 25   | 2.71  | 24   | 2.88  | 23   | 3.05   | 23   | 3.20   | 23   | 3.31   | 22   |        |      |        |      |        |      |        |      |
| 845 | 12518                                      |      | 11942 |      | 11313 |      | 10605 |      | 9917   |      | 9196   |      | 8356   |      | 7350   |      |        |      |        |      |        |      |
|     | 2.44                                       | 27   | 2.61  | 26   | 2.77  | 24   | 2.95  | 24   | 3.12   | 24   | 3.27   | 23   | 3.39   | 22   | 3.40   | 21   |        |      |        |      |        |      |
| 987 | 14622                                      |      | 14131 |      | 13619 |      | 13055 |      | 12444  |      | 11852  |      | 11262  |      | 10622  |      | 9904   |      | 9097   |      |        |      |
|     | 3.89                                       | 31   | 4.08  | 31   | 4.27  | 29   | 4.47  | 29   | 4.68   | 29   | 4.88   | 28   | 5.07   | 26   | 5.24   | 26   | 5.38   | 25   | 5.44   | 24   |        |      |

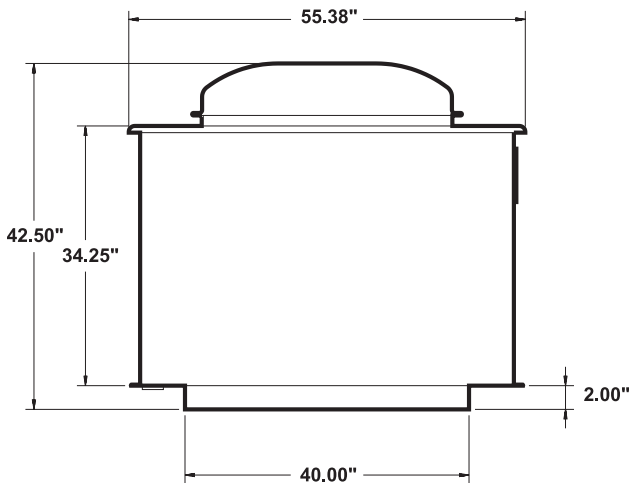
Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.





# PNUHP300 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range  | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|------------|---------------|---------------|
|           |       |            | lbs.          | lbs.          |
| PNUHP300H | 3/4   | 443 - 630  | 280           | 460           |
| PNUHP300J | 1     | 475 - 691  | 284           | 464           |
| PNUHP300K | 1 1/2 | 554 - 795  | 293           | 473           |
| PNUHP300L | 2     | 646 - 865  | 303           | 483           |
| PNUHP300M | 3     | 790 - 1016 | 362           | 542           |
| PNUHP300N | 5     | 980 - 1188 | 402           | 582           |

Motor Information: Maximum Motor Frame Size 215T‡  
Maximum "C" Dimension 15.00"

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 443  | 4056                                       |      | 3228  |      | 2103  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.18                                       | 5.7  | 0.26  | 4.3  | 0.30  | 3.3  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 475  | 4349                                       |      | 3585  |      | 2670  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.22                                       | 6.5  | 0.30  | 5.1  | 0.36  | 4.0  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 554  | 5072                                       |      | 4430  |      | 3705  |      | 2794  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.34                                       | 8.6  | 0.44  | 7.1  | 0.53  | 6.0  | 0.57  | 5.1  |        |      |        |      |        |      |        |      |        |      |        |      |
| 630  | 5768                                       |      | 5213  |      | 4606  |      | 3926  |      | 3041   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.49                                       | 10.6 | 0.61  | 9.2  | 0.71  | 8.0  | 0.80  | 7.1  | 0.83   | 6.2  |        |      |        |      |        |      |        |      |        |      |
| 646  | 5914                                       |      | 5373  |      | 4786  |      | 4137  |      | 3345   |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.52                                       | 11.1 | 0.65  | 9.7  | 0.75  | 8.5  | 0.85  | 7.5  | 0.90   | 6.7  |        |      |        |      |        |      |        |      |        |      |
| 691  | 6326                                       |      | 5820  |      | 5280  |      | 4689  |      | 4041   |      | 3128   |      |        |      |        |      |        |      |        |      |
|      | 0.64                                       | 12.5 | 0.78  | 11.1 | 0.89  | 9.8  | 0.99  | 8.8  | 1.08   | 7.9  | 1.09   | 9.4  |        |      |        |      |        |      |        |      |
| 790  | 7232                                       |      | 6790  |      | 6334  |      | 5849  |      | 5319   |      | 4755   |      | 4075   |      |        |      |        |      |        |      |
|      | 0.94                                       | 17.0 | 1.10  | 15.5 | 1.25  | 14.0 | 1.36  | 12.6 | 1.49   | 14.8 | 1.58   | 14.6 | 1.63   | 14.6 |        |      |        |      |        |      |
| 795  | 7278                                       |      | 6839  |      | 6386  |      | 5904  |      | 5380   |      | 4823   |      | 4169   |      | 3144   |      |        |      |        |      |
|      | 0.96                                       | 17.3 | 1.12  | 15.8 | 1.27  | 14.2 | 1.38  | 12.8 | 1.51   | 15.0 | 1.61   | 14.9 | 1.66   | 14.9 | 1.59   | 14.9 |        |      |        |      |
| 865  | 7919                                       |      | 7515  |      | 7111  |      | 6669  |      | 6212   |      | 5725   |      | 5204   |      | 4621   |      | 3735   |      |        |      |
|      | 1.23                                       | 20   | 1.40  | 18.6 | 1.58  | 17.1 | 1.71  | 15.8 | 1.84   | 17.9 | 1.97   | 17.9 | 2.07   | 17.9 | 2.13   | 18.0 | 2.09   | 18.2 |        |      |
| 980  | 8972                                       |      | 8615  |      | 8259  |      | 7888  |      | 7497   |      | 7096   |      | 6665   |      | 6231   |      | 5753   |      | 5224   |      |
|      | 1.77                                       | 24   | 1.97  | 22   | 2.17  | 21   | 2.34  | 21   | 2.49   | 22   | 2.64   | 23   | 2.79   | 24   | 2.94   | 20   | 3.02   | 20   | 3.09   | 21   |
| 1016 | 9301                                       |      | 8957  |      | 8614  |      | 8262  |      | 7885   |      | 7508   |      | 7097   |      | 6682   |      | 6240   |      | 5779   |      |
|      | 1.97                                       | 25   | 2.18  | 24   | 2.38  | 22   | 2.58  | 22   | 2.73   | 23   | 2.88   | 24   | 3.03   | 24   | 3.19   | 21   | 3.31   | 21   | 3.40   | 22   |
| 1188 | 10876                                      |      | 10582 |      | 10288 |      | 9994  |      | 9694   |      | 9371   |      | 9049   |      | 8725   |      | 8370   |      | 8015   |      |
|      | 3.13                                       | 31   | 3.37  | 30   | 3.61  | 28   | 3.85  | 28   | 4.08   | 27   | 4.26   | 32   | 4.43   | 30   | 4.61   | 27   | 4.79   | 27   | 4.98   | 28   |

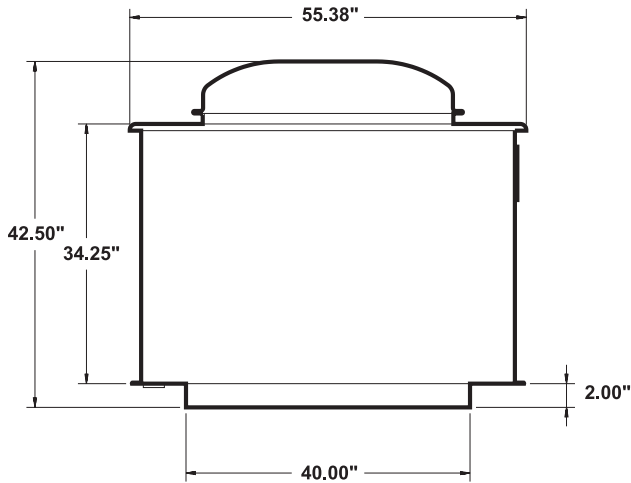
| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 980  | 4491                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 3.07                                       | 22   |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1016 | 5187                                       |      | 4421   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 3.44                                       | 22   | 3.38   | 23   |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1188 | 7661                                       |      | 7272   |      | 6878   |      | 6469   |      | 5868   |      | 5201   |      |        |      |        |      |        |      |        |      |        |      |
|      | 5.16                                       | 25   | 5.28   | 26   | 5.39   | 27   | 5.48   | 28   | 5.47   | 29   | 5.39   | 30   |        |      |        |      |        |      |        |      |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNUXP300 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range  | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|------------|---------------|---------------|
|           |       |            | lbs.          | lbs.          |
| PNUXP300H | 3/4   | 554 - 795  | 280           | 460           |
| PNUXP300J | 1     | 605 - 872  | 284           | 464           |
| PNUXP300K | 1 1/2 | 707 -1003  | 293           | 473           |
| PNUXP300L | 2     | 808 -1092  | 303           | 483           |
| PNUXP300M | 3     | 980 -1282  | 362           | 542           |
| PNUXP300N | 5     | 1273 -1499 | 402           | 582           |

Motor Information: Maximum Motor Frame Size 215T‡

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 554  | 2257                                       |      | 1925  |      | 1529  |      | 988   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.20                                       | 7.4  | 0.25  | 6.5  | 0.28  | 6.1  | 0.29  | 6.5  |        |      |        |      |        |      |        |      |        |      |        |      |
| 605  | 2464                                       |      | 2163  |      | 1818  |      | 1416  |      | 680    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.26                                       | 8.4  | 0.31  | 7.2  | 0.35  | 6.9  | 0.38  | 7.4  | 0.34   | 7.5  |        |      |        |      |        |      |        |      |        |      |
| 707  | 2880                                       |      | 2624  |      | 2356  |      | 2036  |      | 1700   |      | 1199   |      |        |      |        |      |        |      |        |      |
|      | 0.40                                       | 10.6 | 0.46  | 9.4  | 0.51  | 9.1  | 0.56  | 8.9  | 0.59   | 9.5  | 0.59   | 9.9  |        |      |        |      |        |      |        |      |
| 795  | 3238                                       |      | 3011  |      | 2776  |      | 2520  |      | 2229   |      | 1936   |      | 1503   |      | 759    |      |        |      |        |      |
|      | 0.56                                       | 12.5 | 0.62  | 11.3 | 0.69  | 10.9 | 0.75  | 9.8  | 0.80   | 10.7 | 0.83   | 11.3 | 0.83   | 11.9 | 0.71   | 12.2 |        |      |        |      |
| 808  | 3291                                       |      | 3067  |      | 2837  |      | 2590  |      | 2304   |      | 2016   |      | 1621   |      | 1041   |      |        |      |        |      |
|      | 0.59                                       | 12.8 | 0.65  | 11.3 | 0.72  | 11.3 | 0.78  | 11.2 | 0.83   | 10.3 | 0.87   | 11.3 | 0.88   | 12.0 | 0.81   | 12.1 |        |      |        |      |
| 872  | 3552                                       |      | 3345  |      | 3134  |      | 2915  |      | 2661   |      | 2395   |      | 2129   |      | 1744   |      | 1234   |      |        |      |
|      | 0.74                                       | 14.3 | 0.80  | 13.0 | 0.87  | 12.5 | 0.94  | 11.9 | 1.00   | 12.2 | 1.05   | 12.2 | 1.09   | 12.9 | 1.10   | 13.9 | 1.04   | 14.0 |        |      |
| 980  | 3992                                       |      | 3807  |      | 3623  |      | 3430  |      | 3235   |      | 3003   |      | 2767   |      | 2529   |      | 2249   |      | 1898   |      |
|      | 1.04                                       | 16.8 | 1.11  | 16.0 | 1.18  | 15.7 | 1.26  | 15.5 | 1.34   | 14.8 | 1.41   | 14.3 | 1.47   | 14.4 | 1.51   | 15.0 | 1.54   | 15.6 | 1.54   | 16.2 |
| 1003 | 4086                                       |      | 3905  |      | 3725  |      | 3538  |      | 3347   |      | 3128   |      | 2898   |      | 2666   |      | 2429   |      | 2096   |      |
|      | 1.11                                       | 17.4 | 1.18  | 16.2 | 1.26  | 15.6 | 1.34  | 15.4 | 1.42   | 15.2 | 1.49   | 14.9 | 1.56   | 14.9 | 1.60   | 15.4 | 1.64   | 16.0 | 1.66   | 16.6 |
| 1092 | 4448                                       |      | 4283  |      | 4117  |      | 3949  |      | 3774   |      | 3599   |      | 3390   |      | 3178   |      | 2966   |      | 2753   |      |
|      | 1.42                                       | 19.6 | 1.50  | 18.4 | 1.58  | 17.8 | 1.67  | 17.5 | 1.76   | 17.4 | 1.85   | 17.2 | 1.92   | 17.0 | 1.99   | 17.1 | 2.05   | 17.4 | 2.09   | 17.9 |
| 1273 | 5185                                       |      | 5043  |      | 4901  |      | 4759  |      | 4615   |      | 4465   |      | 4315   |      | 4161   |      | 3980   |      | 3798   |      |
|      | 2.23                                       | 24   | 2.33  | 23   | 2.42  | 23   | 2.52  | 22   | 2.61   | 22   | 2.72   | 22   | 2.83   | 21   | 2.93   | 18.4 | 3.01   | 20   | 3.09   | 22   |
| 1282 | 5222                                       |      | 5081  |      | 4940  |      | 4799  |      | 4656   |      | 4507   |      | 4358   |      | 4208   |      | 4028   |      | 3848   |      |
|      | 2.28                                       | 25   | 2.37  | 23   | 2.47  | 22   | 2.57  | 23   | 2.66   | 22   | 2.77   | 22   | 2.88   | 22   | 2.98   | 23   | 3.06   | 22   | 3.15   | 22   |
| 1499 | 6106                                       |      | 5985  |      | 5865  |      | 5744  |      | 5623   |      | 5503   |      | 5376   |      | 5249   |      | 5121   |      | 4994   |      |
|      | 3.62                                       | 31   | 3.73  | 30   | 3.84  | 29   | 3.95  | 29   | 4.07   | 29   | 4.18   | 28   | 4.30   | 28   | 4.42   | 28   | 4.55   | 28   | 4.67   | 26   |

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 980  | 1455                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.48                                       | 16.7 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1003 | 1725                                       |      | 1120   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 1.63                                       | 17.0 | 1.47   | 17.4 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1092 | 2486                                       |      | 2176   |      | 1827   |      | 1261   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 2.12                                       | 18.5 | 2.13   | 18.9 | 2.09   | 19.3 | 1.91   | 19.7 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 1273 | 3617                                       |      | 3434   |      | 3251   |      | 3053   |      | 2791   |      | 2521   |      | 2222   |      | 1827   |      |        |      |        |      |        |      |
|      | 3.17                                       | 21   | 3.23   | 22   | 3.28   | 23   | 3.33   | 23   | 3.34   | 24   | 3.35   | 24   | 3.30   | 24   | 3.17   | 25   |        |      |        |      |        |      |
| 1282 | 3668                                       |      | 3487   |      | 3305   |      | 3122   |      | 2862   |      | 2602   |      | 2305   |      | 1958   |      | 1406   |      |        |      |        |      |
|      | 3.23                                       | 21   | 3.29   | 21   | 3.34   | 22   | 3.39   | 23   | 3.41   | 24   | 3.43   | 24   | 3.38   | 24   | 3.29   | 25   | 3.02   | 25   |        |      |        |      |
| 1499 | 4854                                       |      | 4700   |      | 4546   |      | 4392   |      | 4238   |      | 4083   |      | 3928   |      | 3772   |      | 3601   |      | 3378   |      | 3155   |      |
|      | 4.78                                       | 23   | 4.88   | 26   | 4.98   | 28   | 5.08   | 28   | 5.17   | 28   | 5.23   | 28   | 5.29   | 29   | 5.36   | 30   | 5.41   | 30   | 5.43   | 31   | 5.44   | 31   |

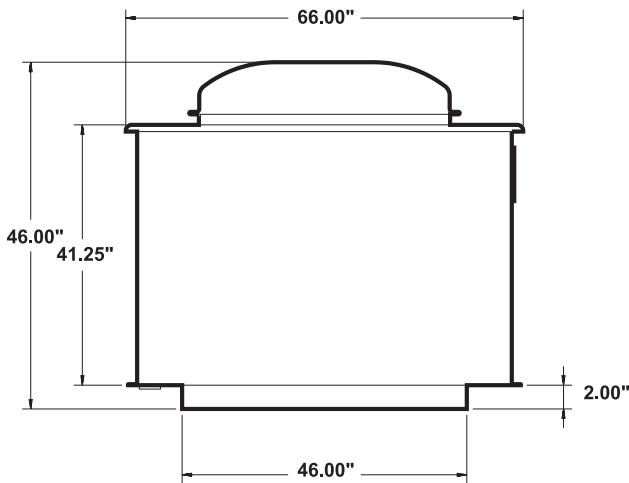
Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

‡ Motor rails must be used with 182T frame and up.



# PNU365 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-----------|---------------|---------------|
|           |       |           | lbs.          | lbs.          |
| PNU365H   | 3/4   | 259 - 370 | 367           | 572           |
| PNU365J   | 1     | 299 - 414 | 371           | 576           |
| PNU365K   | 1 1/2 | 313 - 469 | 375           | 585           |
| PNU365L   | 2     | 398 - 530 | 390           | 595           |
| PNU365M   | 3     | 477 - 610 | 439           | 644           |
| PNU365N   | 5     | 563 - 719 | 480           | 685           |
| PNU365P   | 7 1/2 | 656 - 813 | 481           | 686           |

Motor Information: Maximum Motor Frame Size 215T‡

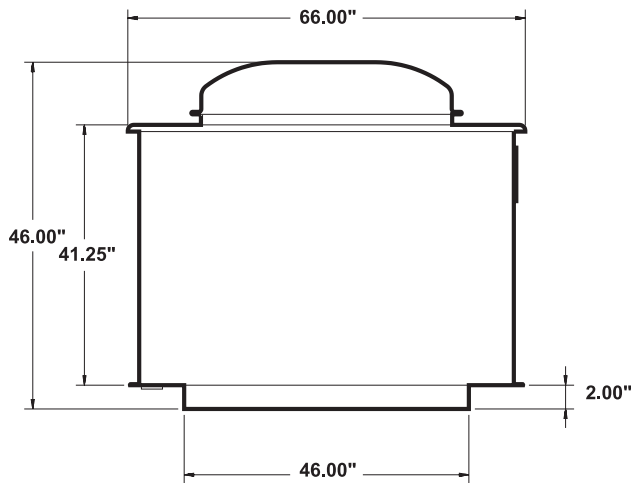
| RPM | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|     | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      |
|     | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 259 | 6910                                       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.19                                       | 5.1  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 299 | 7978                                       |      | 5659  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.29                                       | 6.9  | 0.39  | 6.1  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 313 | 8351                                       |      | 6174  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.33                                       | 7.6  | 0.44  | 6.8  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 370 | 9872                                       |      | 8078  |      | 5752  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.55                                       | 10.5 | 0.68  | 9.7  | 0.76  | 9.2  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 398 | 10619                                      |      | 8969  |      | 7018  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.68                                       | 10.6 | 0.82  | 9.6  | 0.95  | 9.1  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 414 | 11046                                      |      | 9475  |      | 7662  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.77                                       | 11.6 | 0.91  | 10.5 | 1.05  | 9.8  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 469 | 12514                                      |      | 11176 |      | 9646  |      | 7803  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.11                                       | 15.0 | 1.28  | 14.1 | 1.45  | 12.9 | 1.56  | 12.5 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 477 | 12727                                      |      | 11418 |      | 9914  |      | 8154  |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.17                                       | 15.4 | 1.34  | 14.6 | 1.51  | 13.3 | 1.63  | 12.9 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 530 | 14141                                      |      | 12991 |      | 11640 |      | 10254 |      | 8473   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.61                                       | 17.2 | 1.79  | 16.0 | 1.99  | 15.1 | 2.17  | 14.5 | 2.24   | 13.5 |        |      |        |      |        |      |        |      |        |      |        |      |
| 563 | 15022                                      |      | 13949 |      | 12688 |      | 11426 |      | 9932   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.92                                       | 19.0 | 2.12  | 17.9 | 2.33  | 17.0 | 2.53  | 16.3 | 2.68   | 15.5 |        |      |        |      |        |      |        |      |        |      |        |      |
| 610 | 16276                                      |      | 15294 |      | 14168 |      | 12993 |      | 11767  |      | 10274  |      |        |      |        |      |        |      |        |      |        |      |
|     | 2.45                                       | 22   | 2.66  | 22   | 2.88  | 21   | 3.11  | 21   | 3.31   | 20   | 3.42   | 19.4 |        |      |        |      |        |      |        |      |        |      |
| 656 | 17503                                      |      | 16596 |      | 15585 |      | 14475 |      | 13395  |      | 12170  |      | 10704  |      |        |      |        |      |        |      |        |      |
|     | 3.04                                       | 25   | 3.27  | 24   | 3.51  | 23   | 3.75  | 22   | 3.98   | 22   | 4.18   | 21   | 4.26   | 20   |        |      |        |      |        |      |        |      |
| 719 | 19184                                      |      | 18360 |      | 17474 |      | 16472 |      | 15479  |      | 14482  |      | 13347  |      | 12035  |      |        |      |        |      |        |      |
|     | 4.01                                       | 30   | 4.26  | 28   | 4.52  | 27   | 4.78  | 27   | 5.04   | 26   | 5.29   | 26   | 5.50   | 25   | 5.60   | 24   |        |      |        |      |        |      |
| 813 | 21692                                      |      | 20967 |      | 20210 |      | 19378 |      | 18476  |      | 17601  |      | 16730  |      | 15788  |      | 14731  |      | 13545  |      |        |      |
|     | 5.79                                       | 35   | 6.08  | 35   | 6.37  | 33   | 6.66  | 32   | 6.93   | 32   | 7.26   | 31   | 7.54   | 29   | 7.80   | 29   | 8.01   | 28   | 8.10   | 27   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNUHP365 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-----------|---------------|---------------|
|           |       |           | lbs.          | lbs.          |
| PNUHP365H | 3/4   | 317 - 447 | 367           | 572           |
| PNUHP365J | 1     | 350 - 498 | 371           | 576           |
| PNUHP365K | 1 1/2 | 391 - 568 | 375           | 585           |
| PNUHP365L | 2     | 467 - 641 | 390           | 595           |
| PNUHP365M | 3     | 576 - 738 | 439           | 644           |
| PNUHP365N | 5     | 774 - 870 | 480           | 685           |
| PNUHP365P | 7 1/2 | 844 - 984 | 481           | 686           |

Motor Information: Maximum Motor Frame Size 215T‡  
Maximum "C" Dimension 15.00"

| RPM | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|     | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|     | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 317 | 5033                                       |      | 3704  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.17                                       | 5.0  | 0.26  | 4.5  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 350 | 5557                                       |      | 4400  |      | 2285  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.22                                       | 5.9  | 0.34  | 5.4  | 0.36  | 5.0  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 391 | 6208                                       |      | 5196  |      | 3847  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.30                                       | 7.4  | 0.44  | 6.6  | 0.52  | 6.0  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 447 | 7098                                       |      | 6225  |      | 5210  |      | 3685  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.45                                       | 9.6  | 0.60  | 8.8  | 0.73  | 8.5  | 0.77  | 7.8  |        |      |        |      |        |      |        |      |        |      |        |      |
| 467 | 7415                                       |      | 6584  |      | 5637  |      | 4359  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.51                                       | 10.5 | 0.67  | 9.6  | 0.81  | 9.2  | 0.88  | 8.6  |        |      |        |      |        |      |        |      |        |      |        |      |
| 498 | 7907                                       |      | 7135  |      | 6284  |      | 5208  |      | 3388   |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.62                                       | 11.5 | 0.79  | 10.5 | 0.95  | 10.1 | 1.05  | 9.6  | 1.02   | 9.0  |        |      |        |      |        |      |        |      |        |      |
| 568 | 9019                                       |      | 8342  |      | 7628  |      | 6820  |      | 5833   |      | 4362   |      |        |      |        |      |        |      |        |      |
|     | 0.91                                       | 13.9 | 1.11  | 12.8 | 1.30  | 12.7 | 1.45  | 12.8 | 1.56   | 11.1 | 1.55   | 11.2 |        |      |        |      |        |      |        |      |
| 576 | 9146                                       |      | 8478  |      | 7776  |      | 6990  |      | 6038   |      | 4720   |      |        |      |        |      |        |      |        |      |
|     | 0.95                                       | 14.2 | 1.15  | 13.2 | 1.34  | 12.8 | 1.50  | 12.6 | 1.62   | 11.9 | 1.64   | 11.5 |        |      |        |      |        |      |        |      |
| 641 | 10178                                      |      | 9578  |      | 8962  |      | 8315  |      | 7559   |      | 6675   |      | 5513   |      |        |      |        |      |        |      |
|     | 1.30                                       | 16.6 | 1.52  | 15.5 | 1.74  | 15.2 | 1.95  | 15.0 | 2.11   | 14.9 | 2.23   | 14.0 | 2.26   | 13.6 |        |      |        |      |        |      |
| 738 | 11718                                      |      | 11197 |      | 10676 |      | 10123 |      | 9560   |      | 8905   |      | 8218   |      | 7368   |      | 6292   |      | 4402   |      |
|     | 1.97                                       | 21   | 2.23  | 19.3 | 2.49  | 19.0 | 2.73  | 18.8 | 2.97   | 18.5 | 3.16   | 18.5 | 3.32   | 17.5 | 3.42   | 16.8 | 3.43   | 17.0 | 3.14   | 17.0 |
| 774 | 12290                                      |      | 11793 |      | 11296 |      | 10777 |      | 10241  |      | 9659   |      | 9019   |      | 8295   |      | 7484   |      | 6375   |      |
|     | 2.27                                       | 22   | 2.55  | 20   | 2.82  | 21   | 3.08  | 20   | 3.33   | 20   | 3.55   | 20   | 3.73   | 19.5 | 3.87   | 18.7 | 3.98   | 17.7 | 3.95   | 18.0 |
| 844 | 13401                                      |      | 12946 |      | 12490 |      | 12031 |      | 11539  |      | 11047  |      | 10501  |      | 9914   |      | 9285   |      | 8542   |      |
|     | 2.94                                       | 26   | 3.24  | 25   | 3.53  | 25   | 3.83  | 24   | 4.10   | 24   | 4.37   | 24   | 4.60   | 23   | 4.80   | 23   | 4.98   | 22   | 5.09   | 22   |
| 870 | 13814                                      |      | 13372 |      | 12930 |      | 12488 |      | 12014  |      | 11537  |      | 11038  |      | 10469  |      | 9900   |      | 9211   |      |
|     | 3.22                                       | 28   | 3.52  | 27   | 3.83  | 26   | 4.14  | 26   | 4.42   | 25   | 4.70   | 25   | 4.96   | 25   | 5.17   | 24   | 5.37   | 23   | 5.51   | 23   |
| 984 | 15624                                      |      | 15234 |      | 14843 |      | 14452 |      | 14059  |      | 13637  |      | 13216  |      | 12794  |      | 12321  |      | 11818  |      |
|     | 4.64                                       | 34   | 4.99  | 33   | 5.34  | 32   | 5.68  | 32   | 6.03   | 31   | 6.34   | 31   | 6.66   | 31   | 6.98   | 30   | 7.24   | 30   | 7.47   | 30   |

| RPM | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|     | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|     | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 844 | 7671                                       |      | 6547   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 5.14                                       | 21   | 5.06   | 21   |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 870 | 8490                                       |      | 7535   |      | 6250   |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 5.63                                       | 22   | 5.61   | 22   | 5.44   | 22   |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 984 | 11314                                      |      | 10745  |      | 10108  |      | 9464   |      | 8585   |      | 7565   |      |        |      |        |      |        |      |        |      |        |      |
|     | 7.71                                       | 29   | 7.89   | 28   | 8.02   | 27   | 8.15   | 26   | 8.11   | 26   | 7.99   | 27   |        |      |        |      |        |      |        |      |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.

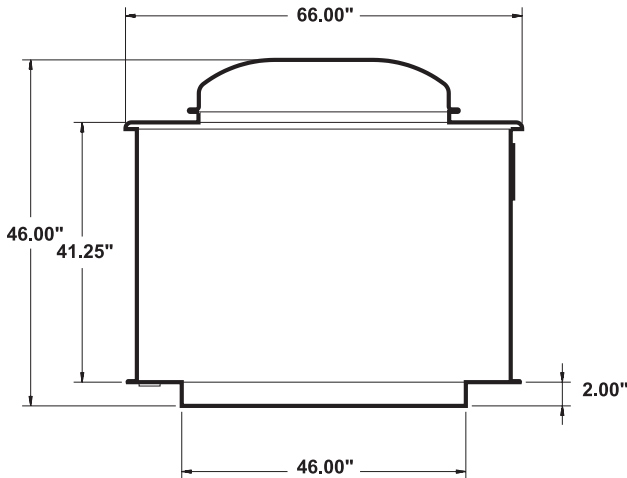
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

‡ Motor rails must be used with 182T frame and up.



# PNUXP365 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range   | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-------------|---------------|---------------|
|           |       |             | lbs.          | lbs.          |
| PNUXP365H | 3/4   | 391 - 569   | 367           | 572           |
| PNUXP365J | 1     | 443 - 634   | 371           | 576           |
| PNUXP365K | 1 1/2 | 496 - 723   | 375           | 585           |
| PNUXP365L | 2     | 600 - 816   | 390           | 595           |
| PNUXP365M | 3     | 731 - 939   | 439           | 644           |
| PNUXP365N | 5     | 980 - 1107  | 480           | 685           |
| PNUXP365P | 7 1/2 | 1196 - 1252 | 481           | 686           |

Motor Information: Maximum Motor Frame Size 215T‡

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      |
|      | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 391  | 2713                                       |      | 2182  |      | 1388  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.17                                       | 5.5  | 0.23  | 5.1  | 0.26  | 5.7  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 443  | 3074                                       |      | 2614  |      | 2033  |      | 1107  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.24                                       | 7.0  | 0.31  | 6.2  | 0.36  | 6.5  | 0.36  | 7.0  |        |      |        |      |        |      |        |      |        |      |        |      |
| 496  | 3441                                       |      | 3040  |      | 2566  |      | 1936  |      | 992    |      |        |      |        |      |        |      |        |      |        |      |
|      | 0.33                                       | 8.7  | 0.41  | 7.9  | 0.48  | 7.9  | 0.52  | 8.2  | 0.49   | 8.6  |        |      |        |      |        |      |        |      |        |      |
| 569  | 3948                                       |      | 3604  |      | 3221  |      | 2774  |      | 2184   |      | 1377   |      |        |      |        |      |        |      |        |      |
|      | 0.50                                       | 11.3 | 0.59  | 11.2 | 0.67  | 10.1 | 0.74  | 10.0 | 0.78   | 10.3 | 0.75   | 6.6  |        |      |        |      |        |      |        |      |
| 600  | 4163                                       |      | 3836  |      | 3479  |      | 3072  |      | 2579   |      | 1911   |      |        |      |        |      |        |      |        |      |
|      | 0.58                                       | 12.0 | 0.67  | 12.0 | 0.77  | 10.8 | 0.85  | 10.5 | 0.90   | 10.8 | 0.91   | 11.3 |        |      |        |      |        |      |        |      |
| 634  | 4399                                       |      | 4090  |      | 3757  |      | 3391  |      | 2957   |      | 2412   |      | 1702   |      |        |      |        |      |        |      |
|      | 0.68                                       | 12.9 | 0.78  | 12.6 | 0.88  | 11.7 | 0.97  | 11.2 | 1.04   | 11.6 | 1.07   | 11.8 | 1.05   | 12.5 |        |      |        |      |        |      |
| 723  | 5016                                       |      | 4745  |      | 4469  |      | 4163  |      | 3831   |      | 3460   |      | 3024   |      | 2472   |      | 1801   |      |        |      |
|      | 1.00                                       | 15.3 | 1.12  | 15.2 | 1.23  | 14.6 | 1.34  | 14.0 | 1.44   | 12.1 | 1.52   | 13.9 | 1.57   | 14.2 | 1.59   | 14.7 | 1.54   | 15.3 |        |      |
| 731  | 5072                                       |      | 4804  |      | 4532  |      | 4229  |      | 3905   |      | 3546   |      | 3115   |      | 2590   |      | 1946   |      |        |      |
|      | 1.03                                       | 15.5 | 1.15  | 15.4 | 1.26  | 15.0 | 1.38  | 14.5 | 1.48   | 14.0 | 1.56   | 14.5 | 1.62   | 15.1 | 1.65   | 15.2 | 1.60   | 15.4 |        |      |
| 816  | 5661                                       |      | 5421  |      | 5181  |      | 4921  |      | 4650   |      | 4354   |      | 4033   |      | 3662   |      | 3243   |      | 2742   |      |
|      | 1.43                                       | 18.3 | 1.56  | 18.2 | 1.69  | 18.2 | 1.81  | 16.8 | 1.94   | 16.6 | 2.05   | 16.5 | 2.15   | 16.6 | 2.21   | 17.1 | 2.26   | 17.4 | 2.28   | 17.7 |
| 931  | 6459                                       |      | 6249  |      | 6039  |      | 5828  |      | 5592   |      | 5354   |      | 5111   |      | 4829   |      | 4548   |      | 4216   |      |
|      | 2.11                                       | 23   | 2.26  | 23   | 2.41  | 23   | 2.55  | 22   | 2.69   | 21   | 2.84   | 21   | 2.97   | 21   | 3.08   | 21   | 3.19   | 21   | 3.27   | 21   |
| 939  | 6515                                       |      | 6306  |      | 6098  |      | 5889  |      | 5656   |      | 5421   |      | 5184   |      | 4905   |      | 4625   |      | 4304   |      |
|      | 2.16                                       | 23   | 2.31  | 23   | 2.46  | 23   | 2.61  | 23   | 2.75   | 21   | 2.90   | 21   | 3.04   | 21   | 3.15   | 21   | 3.26   | 21   | 3.34   | 21   |
| 980  | 6799                                       |      | 6599  |      | 6400  |      | 6200  |      | 5984   |      | 5758   |      | 5532   |      | 5286   |      | 5018   |      | 4750   |      |
|      | 2.46                                       | 25   | 2.61  | 25   | 2.77  | 25   | 2.92  | 25   | 3.07   | 24   | 3.22   | 23   | 3.37   | 23   | 3.50   | 22   | 3.62   | 22   | 3.74   | 22   |
| 1107 | 7680                                       |      | 7503  |      | 7327  |      | 7150  |      | 6973   |      | 6780   |      | 6580   |      | 6380   |      | 6180   |      | 5955   |      |
|      | 3.53                                       | 32   | 3.70  | 32   | 3.88  | 32   | 4.05  | 32   | 4.23   | 31   | 4.40   | 30   | 4.57   | 28   | 4.73   | 28   | 4.90   | 27   | 5.05   | 24   |
| 1196 | 8298                                       |      | 8134  |      | 7970  |      | 7807  |      | 7643   |      | 7479   |      | 7295   |      | 7110   |      | 6925   |      | 6740   |      |
|      | 4.44                                       | 35   | 4.63  | 35   | 4.82  | 35   | 5.01  | 35   | 5.20   | 35   | 5.39   | 35   | 5.57   | 34   | 5.75   | 33   | 5.93   | 34   | 6.11   | 33   |
| 1252 | 8686                                       |      | 8530  |      | 8374  |      | 8217  |      | 8061   |      | 7904   |      | 7738   |      | 7561   |      | 7385   |      | 7208   |      |
|      | 5.09                                       | 37   | 5.29  | 37   | 5.48  | 37   | 5.68  | 37   | 5.88   | 37   | 6.08   | 37   | 6.28   | 35   | 6.46   | 34   | 6.65   | 33   | 6.84   | 33   |

| RPM  | Licensed CFM and Sones vs. Static Pressure |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|------|--------------------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      | 2.500"                                     |      | 2.750" |      | 3.000" |      | 3.250" |      | 3.500" |      | 3.750" |      | 4.000" |      | 4.250" |      | 4.500" |      | 4.750" |      | 5.000" |      |
|      | BHP                                        | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 816  | 2153                                       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 2.22                                       | 18.1 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 931  | 3876                                       |      | 3449   |      | 2985   |      | 2466   |      | 1913   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 3.33                                       | 21   | 3.37   | 22   | 3.36   | 22   | 3.29   | 22   | 3.17   | 23   |        |      |        |      |        |      |        |      |        |      |        |      |
| 939  | 3968                                       |      | 3559   |      | 3114   |      | 2610   |      | 2062   |      |        |      |        |      |        |      |        |      |        |      |        |      |
|      | 3.41                                       | 21   | 3.45   | 22   | 3.45   | 22   | 3.40   | 22   | 3.28   | 23   |        |      |        |      |        |      |        |      |        |      |        |      |
| 980  | 4428                                       |      | 4107   |      | 3707   |      | 3284   |      | 2806   |      | 2283   |      |        |      |        |      |        |      |        |      |        |      |
|      | 3.81                                       | 22   | 3.88   | 22   | 3.91   | 23   | 3.93   | 23   | 3.87   | 24   | 3.76   | 24   |        |      |        |      |        |      |        |      |        |      |
| 1107 | 5718                                       |      | 5481   |      | 5219   |      | 4934   |      | 4649   |      | 4300   |      | 3941   |      | 3535   |      | 3108   |      | 2643   |      | 2179   |      |
|      | 5.18                                       | 25   | 5.31   | 27   | 5.41   | 28   | 5.49   | 28   | 5.57   | 28   | 5.62   | 28   | 5.65   | 29   | 5.62   | 29   | 5.56   | 29   | 5.42   | 29   | 5.28   | 30   |
| 1196 | 6544                                       |      | 6325   |      | 6106   |      | 5886   |      | 5640   |      | 5377   |      | 5113   |      | 4814   |      | 4482   |      | 4150   |      | 3758   |      |
|      | 6.28                                       | 32   | 6.42   | 31   | 6.57   | 31   | 6.71   | 32   | 6.82   | 33   | 6.90   | 33   | 6.99   | 33   | 7.05   | 33   | 7.09   | 33   | 7.13   | 33   | 7.07   | 33   |
| 1252 | 7031                                       |      | 6842   |      | 6633   |      | 6423   |      | 6214   |      | 5990   |      | 5738   |      | 5487   |      | 5235   |      | 4922   |      | 4605   |      |
|      | 7.03                                       | 33   | 7.21   | 33   | 7.36   | 33   | 7.50   | 33   | 7.65   | 33   | 7.78   | 33   | 7.88   | 34   | 7.97   | 34   | 8.06   | 34   | 8.10   | 34   | 8.14   | 34   |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.

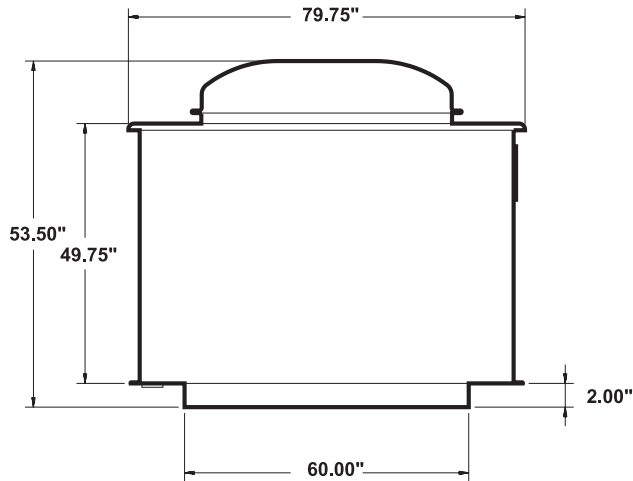
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

‡ Motor rails must be used with 182T frame and up.



# PNU425 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-----------|---------------|---------------|
|           |       |           | lbs.          | lbs.          |
| PNU425H   | 3/4   | 212 - 301 | 451           | 735           |
| PNU425J   | 1     | 230 - 328 | 452           | 736           |
| PNU425K   | 1 1/2 | 268 - 373 | 461           | 745           |
| PNU425L   | 2     | 273 - 410 | 472           | 756           |
| PNU425M   | 3     | 345 - 470 | 530           | 814           |
| PNU425N   | 5     | 450 - 557 | 571           | 855           |
| PNU425P   | 7 1/2 | 518 - 638 | 572           | 856           |
| PNU425R   | 10    | 571 - 703 | 598           | 882           |

Motor Information: Maximum Motor Frame Size 215T‡  
Maximum "C" Dimension 17.00"

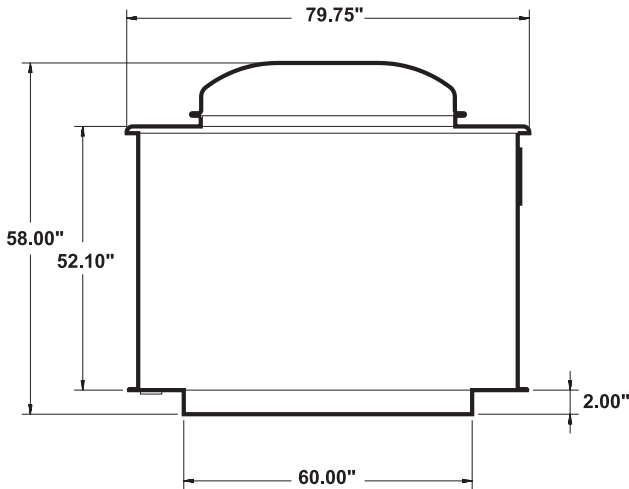
| RPM | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|     | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      | 2.000" |      | 2.250" |      | 2.500" |      |
|     | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 212 | 8930                                       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.22                                       | 4.8  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 230 | 9688                                       |      | 5924  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.28                                       | 5.6  | 0.39  | 5.0  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 268 | 11288                                      |      | 8325  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.44                                       | 7.7  | 0.59  | 6.8  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 273 | 11499                                      |      | 8606  |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.47                                       | 7.9  | 0.62  | 7.1  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 301 | 12678                                      |      | 10095 |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.63                                       | 9.6  | 0.80  | 8.7  |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 328 | 13816                                      |      | 11468 |      | 5876  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.81                                       | 10.0 | 1.00  | 8.8  | 1.14  | 8.3  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 345 | 14532                                      |      | 12319 |      | 9723  |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 0.95                                       | 11.1 | 1.14  | 9.9  | 1.32  | 9.2  |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 373 | 15711                                      |      | 13708 |      | 11429 |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.20                                       | 13.0 | 1.41  | 11.9 | 1.61  | 10.9 |       |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 410 | 17269                                      |      | 15497 |      | 13460 |      | 11078 |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 1.59                                       | 15.9 | 1.82  | 15.3 | 2.06  | 14.4 | 2.22  | 14.0 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 450 | 18954                                      |      | 17373 |      | 15519 |      | 13599 |      |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 2.10                                       | 17.3 | 2.35  | 16.2 | 2.62  | 15.4 | 2.85  | 14.8 |        |      |        |      |        |      |        |      |        |      |        |      |        |      |
| 470 | 19797                                      |      | 18294 |      | 16526 |      | 14747 |      | 12558  |      |        |      |        |      |        |      |        |      |        |      |        |      |
|     | 2.40                                       | 18.6 | 2.66  | 17.5 | 2.93  | 16.7 | 3.19  | 16.1 | 3.35   | 15.2 |        |      |        |      |        |      |        |      |        |      |        |      |
| 518 | 21818                                      |      | 20472 |      | 18918 |      | 17312 |      | 15607  |      | 13515  |      |        |      |        |      |        |      |        |      |        |      |
|     | 3.21                                       | 22   | 3.50  | 22   | 3.79  | 21   | 4.09  | 21   | 4.36   | 20   | 4.49   | 19.1 |        |      |        |      |        |      |        |      |        |      |
| 557 | 23461                                      |      | 22216 |      | 20822 |      | 19303 |      | 17817  |      | 16105  |      | 14033  |      |        |      |        |      |        |      |        |      |
|     | 3.99                                       | 25   | 4.30  | 24   | 4.61  | 23   | 4.94  | 22   | 5.25   | 22   | 5.50   | 21   | 5.57   | 20   |        |      |        |      |        |      |        |      |
| 571 | 24051                                      |      | 22839 |      | 21495 |      | 20008 |      | 18568  |      | 16964  |      | 15058  |      |        |      |        |      |        |      |        |      |
|     | 4.30                                       | 26   | 4.61  | 25   | 4.94  | 24   | 5.27  | 23   | 5.59   | 23   | 5.87   | 22   | 6.01   | 21   |        |      |        |      |        |      |        |      |
| 638 | 26873                                      |      | 25794 |      | 24644 |      | 23347 |      | 22028  |      | 20738  |      | 19326  |      | 17705  |      |        |      |        |      |        |      |
|     | 5.99                                       | 32   | 6.35  | 31   | 6.70  | 30   | 7.07  | 29   | 7.44   | 28   | 7.80   | 28   | 8.12   | 27   | 8.34   | 26   |        |      |        |      |        |      |
| 703 | 29611                                      |      | 28635 |      | 27617 |      | 26501 |      | 25288  |      | 24106  |      | 22936  |      | 21680  |      | 20273  |      | 18699  |      |        |      |
|     | 8.02                                       | 35   | 8.41  | 35   | 8.80  | 33   | 9.20  | 32   | 9.61   | 32   | 10.02  | 31   | 10.41  | 30   | 10.77  | 29   | 11.06  | 28   | 11.21  | 27   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.



# PNU490 PERFORMANCE DATA AND DIMENSIONS



| Fan Model | HP    | RPM Range | Est. Unit Wt. | Est. Ship Wt. |
|-----------|-------|-----------|---------------|---------------|
|           |       |           | lbs.          | lbs.          |
| PNU490H   | 3/4   | 174 - 237 | 463           | 757           |
| PNU490J   | 1     | 177 - 265 | 467           | 761           |
| PNU490K   | 1 1/2 | 222 - 291 | 476           | 770           |
| PNU490L   | 2     | 222 - 332 | 486           | 780           |
| PNU490M   | 3     | 269 - 365 | 544           | 838           |
| PNU490N   | 5     | 322 - 438 | 585           | 879           |
| PNU490P   | 7 1/2 | 383 - 453 | 586           | 880           |
| PNU490R   | 10    | 428 - 517 | 612           | 906           |

Motor Information: Maximum Motor Frame Size 215T‡  
Maximum "C" Dimension 17.00"

| RPM | Licensed CFM and Sones vs. Static Pressure |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
|-----|--------------------------------------------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|
|     | .000"                                      |      | .250" |      | .500" |      | .750" |      | 1.000" |      | 1.250" |      | 1.500" |      | 1.750" |      |
|     | BHP                                        | Sone | BHP   | Sone | BHP   | Sone | BHP   | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone | BHP    | Sone |
| 174 | 11232                                      |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.25                                       | 4.5  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
| 177 | 11426                                      |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.26                                       | 4.7  |       |      |       |      |       |      |        |      |        |      |        |      |        |      |
| 222 | 14331                                      |      | 10132 |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.51                                       | 7.1  | 0.70  | 6.4  |       |      |       |      |        |      |        |      |        |      |        |      |
| 237 | 15299                                      |      | 11458 |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.63                                       | 8.1  | 0.83  | 7.2  |       |      |       |      |        |      |        |      |        |      |        |      |
| 265 | 17107                                      |      | 13729 |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.88                                       | 10.0 | 1.11  | 9.2  |       |      |       |      |        |      |        |      |        |      |        |      |
| 269 | 17365                                      |      | 14042 |      |       |      |       |      |        |      |        |      |        |      |        |      |
|     | 0.92                                       | 10.3 | 1.15  | 9.5  |       |      |       |      |        |      |        |      |        |      |        |      |
| 291 | 18785                                      |      | 15745 |      | 12091 |      |       |      |        |      |        |      |        |      |        |      |
|     | 1.16                                       | 10.6 | 1.41  | 9.4  | 1.62  | 8.7  |       |      |        |      |        |      |        |      |        |      |
| 322 | 20786                                      |      | 18107 |      | 15057 |      |       |      |        |      |        |      |        |      |        |      |
|     | 1.57                                       | 12.9 | 1.85  | 11.8 | 2.12  | 10.6 |       |      |        |      |        |      |        |      |        |      |
| 332 | 21432                                      |      | 18857 |      | 15933 |      |       |      |        |      |        |      |        |      |        |      |
|     | 1.72                                       | 13.8 | 2.01  | 12.6 | 2.29  | 11.4 |       |      |        |      |        |      |        |      |        |      |
| 365 | 23562                                      |      | 21282 |      | 18643 |      | 15682 |      |        |      |        |      |        |      |        |      |
|     | 2.29                                       | 16.8 | 2.60  | 15.8 | 2.92  | 14.7 | 3.18  | 14.5 |        |      |        |      |        |      |        |      |
| 383 | 24724                                      |      | 22574 |      | 20060 |      | 17409 |      |        |      |        |      |        |      |        |      |
|     | 2.64                                       | 17.4 | 2.97  | 16.3 | 3.31  | 15.5 | 3.61  | 14.9 |        |      |        |      |        |      |        |      |
| 428 | 27629                                      |      | 25739 |      | 23528 |      | 21301 |      | 18751  |      |        |      |        |      |        |      |
|     | 3.69                                       | 21   | 4.05  | 20   | 4.43  | 19.8 | 4.80  | 19.0 | 5.10   | 18.4 |        |      |        |      |        |      |
| 438 | 28274                                      |      | 26433 |      | 24291 |      | 22111 |      | 19706  |      | 16666  |      |        |      |        |      |
|     | 3.95                                       | 22   | 4.32  | 21   | 4.71  | 21   | 5.09  | 19.9 | 5.42   | 19.2 | 5.51   | 18.2 |        |      |        |      |
| 453 | 29242                                      |      | 27468 |      | 25428 |      | 23306 |      | 21082  |      | 18369  |      |        |      |        |      |
|     | 4.37                                       | 23   | 4.76  | 23   | 5.16  | 22   | 5.55  | 21   | 5.91   | 21   | 6.11   | 19.6 |        |      |        |      |
| 517 | 33374                                      |      | 31834 |      | 30155 |      | 28265 |      | 26430  |      | 24503  |      | 22258  |      |        |      |
|     | 6.50                                       | 29   | 6.94  | 28   | 7.38  | 27   | 7.85  | 26   | 8.30   | 26   | 8.71   | 25   | 9.02   | 24   |        |      |

Performance shown is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power ratings (BHP) do not include drive losses.  
The sound ratings shown are loudness values in fan Sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet fan Sone levels.

The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.  
‡ Motor rails must be used with 182T frame and up.





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## OPTIONAL ACCESSORIES

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### GRILLES

#### Model GR

Attractive ring type grilles for flush mountings to interior wall opening. Available for all models through size 245.



### SOLID STATE SPEED CONTROLLER

This controller provides an infinite number of motor speed settings. Simply "dial the amount of ventilation desired", down to 50% of maximum capacity, eliminating the need for 2 or 3-speed switches. Available for selected models of PDU080 through 185.



### BACKDRAFT DAMPERS

#### Model AR and ARH

All aluminum multiple blade construction. Precision balanced full opening blades with nylon bearings. Wide damper frame for installing flush to ceiling opening or mounting frame in roof opening. Mounts inside Acme prefabricated curb. Available as automatic or motor operated. Model ARH is for fan sizes 300 through 490.



### CHOKE ORIFICE

When a specific performance point can not be achieved with a Solid State Speed Controller, a special orifice can be designed.

### INTERNAL WIRING

Internal wiring is offered as an option with RF units.

#### Model RD

Automatic disc type, counter-balanced, rim mounted dampers for use with round duct are available for PDU80 through 135.



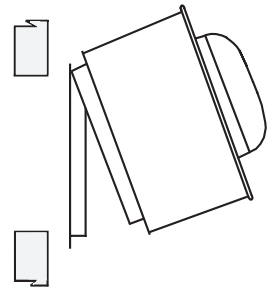
#### Model AW

Attractive all aluminum multiple blade damper for flush mounting to interior wall when square duct is used. Precision counter-balanced, full opening blades. Available for all models up to size 245.



### WALL MOUNTING BRACKET

Model WP allows wall mounting of all models up to size 245.



### DAMPER BOX

#### Model DB

For easy mounting of damper inside field constructed roof curb. Not required when using Acme prefabricated curbs.



### HEAT SHIELD

For exhausting high temperature air, an insulating shield is available to increase heat dissipation from the motor compartment.



# OPTIONAL ACCESSORIES

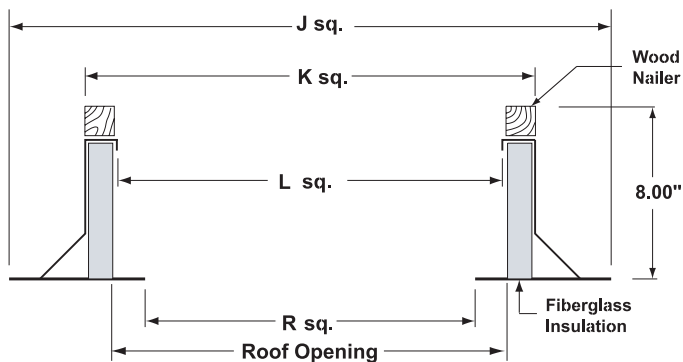
## PREFABRICATED CURBS

### Model C

Heavy gauge galvanized steel curbs for easy installation of exhauster over roof opening. Replaces conventional field constructed curb for steel, concrete or wood roof. Available as Self-Flashing type (SF) with foam rubber gasket or as Roofed-Over-Flashing type (RF) with built-in cant strip and wood nailer. Insulated with 1.50" thick of fire resistant and sound absorbing fiberglass.

### Model CR Restaurant Curb

18.00" , 24.00" or 28.00" high, heavy gauge galvanized steel curbs. Available as Roofed-Over-Flashing type with built-in cant strip (RF) or as Self-Flashing type (SF).



## CURB HINGE ASSEMBLY

The hinged curb arrangement provides accessibility for cleaning lower housing, impeller and duct. Hinge assembly has integral restraint cable to maintain fan in open position.

**Type A** curb hinges are field installed to both sides of the pre-punched fan curbcap opposite to the internal drain. Available through size 245.

**Type B** integrated curb hinge is factory installed to the fan curbcap so that the combined fan and hinge assembly are mounted on the curb by using pre-punched holes in the hinge base. Available through size 365.



| C CURB DIMENSIONS |            |       |       |       |       |      |                |              |
|-------------------|------------|-------|-------|-------|-------|------|----------------|--------------|
| Fan Model         | Curb Model | J     | K     | L     | R     | *H   | Damper Model** | Roof Opening |
| PDU080RF          | C12        | 20.00 | 12.00 | 9.00  | 6.00  | 8.00 | AR8.75         | 9 x 9        |
| PDU100RF          | C12        | 20.00 | 12.00 | 9.00  | 6.00  | 8.00 | AR8.75         | 9 x 9        |
| PDU110RF          | C12        | 20.00 | 12.00 | 9.00  | 6.00  | 8.00 | AR8.75         | 9 x 9        |
| PDU120RF          | C17.5      | 25.50 | 17.50 | 14.50 | 11.50 | 8.00 | AR14           | 14.5 x 14.5  |
| PDU135RF          | C17.5      | 25.50 | 17.50 | 14.50 | 11.50 | 8.00 | AR14           | 14.5 x 14.5  |
| PDU150RF          | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PDU165RF          | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PDU185RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PDU200RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNUXP080RF        | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PNUHP100RF        | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PNU120RF          | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PNU135RF          | C22.5      | 30.50 | 22.50 | 19.50 | 16.50 | 8.00 | AR18           | 19.5 x 19.5  |
| PNU150RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNU165RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNUHP165RF        | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNUXP165RF        | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNU185RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNU200RF          | C26.5      | 34.50 | 26.50 | 23.50 | 20.50 | 8.00 | AR22           | 23.5 x 23.5  |
| PNU245RF          | C32.5      | 40.50 | 32.50 | 29.50 | 26.50 | 8.00 | AR28           | 29.5 x 29.5  |
| PNUHP245RF        | C32.5      | 40.50 | 32.50 | 29.50 | 26.50 | 8.00 | AR28           | 29.5 x 29.5  |
| PNUXP245RF        | C32.5      | 40.50 | 32.50 | 29.50 | 26.50 | 8.00 | AR28           | 29.5 x 29.5  |
| PNU300RF          | C38.5      | 46.50 | 38.50 | 35.50 | 32.50 | 8.00 | ARH34          | 35.5 x 35.5  |
| PNUHP300RF        | C38.5      | 46.50 | 38.50 | 35.50 | 32.50 | 8.00 | ARH34          | 35.5 x 35.5  |
| PNUXP300RF        | C38.5      | 46.50 | 38.50 | 35.50 | 32.50 | 8.00 | ARH34          | 35.5 x 35.5  |
| PNU365RF          | C44.5      | 52.50 | 44.50 | 41.50 | 38.50 | 8.00 | ARH40          | 41.5 x 41.5  |
| PNUHP365RF        | C44.5      | 52.50 | 44.50 | 41.50 | 38.50 | 8.00 | ARH40          | 41.5 x 41.5  |
| PNUXP365RF        | C44.5      | 52.50 | 44.50 | 41.50 | 38.50 | 8.00 | ARH40          | 41.5 x 41.5  |
| PNU425RF          | C58.5      | 66.50 | 58.50 | 55.50 | 52.50 | 8.00 | ARH54          | 55.5 x 55.5  |
| PNU490RF          | C58.5      | 66.50 | 58.50 | 55.50 | 52.50 | 8.00 | ARH54          | 55.5 x 55.5  |

| CR CURB DIMENSIONS |            |       |       |       |       |              |
|--------------------|------------|-------|-------|-------|-------|--------------|
| Fan Model          | Curb Model | J     | K     | L     | H     | Roof Opening |
| PDU080RG           | CR12       | 20.00 | 12.00 | 9.00  | 28.00 | 9 x 9        |
| PDU100RG           | CR12       | 20.00 | 12.00 | 9.00  | 28.00 | 9 x 9        |
| PDU110RG           | CR12       | 20.00 | 12.00 | 9.00  | 28.00 | 9 x 9        |
| PDU120RG           | CR17.5     | 25.50 | 17.50 | 14.50 | 24.00 | 14.5 x 14.5  |
| PDU135RG           | CR17.5     | 25.50 | 17.50 | 14.50 | 24.00 | 14.5 x 14.5  |
| PDU150RG           | CR22.5     | 30.50 | 22.50 | 19.50 | 18.00 | 19.5 x 19.5  |
| PDU165RG           | CR22.5     | 30.50 | 22.50 | 19.50 | 18.00 | 19.5 x 19.5  |
| PDU185RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PDU200RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNUXP080RG         | CR22.5     | 30.50 | 22.50 | 19.50 | 24.00 | 19.5 x 19.5  |
| PNUHP100RG         | CR22.5     | 30.50 | 22.50 | 19.50 | 24.00 | 19.5 x 19.5  |
| PNU120RG           | CR22.5     | 30.50 | 22.50 | 19.50 | 24.00 | 19.5 x 19.5  |
| PNU135RG           | CR22.5     | 30.50 | 22.50 | 19.50 | 24.00 | 19.5 x 19.5  |
| PNU150RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNU165RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNUHP165RG         | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNUXP165RG         | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNU185RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNU200RG           | CR26.5     | 34.50 | 26.50 | 23.50 | 18.00 | 23.5 x 23.5  |
| PNU245RG           | CR32.5     | 40.50 | 32.50 | 29.50 | 18.00 | 29.5 x 29.5  |
| PNUHP245RG         | CR32.5     | 40.50 | 32.50 | 29.50 | 18.00 | 29.5 x 29.5  |
| PNUXP245RG         | CR32.5     | 40.50 | 32.50 | 29.50 | 18.00 | 29.5 x 29.5  |
| PNU300RG           | CR38.5     | 46.50 | 38.50 | 35.50 | 18.00 | 35.5 x 35.5  |
| PNUHP300RG         | CR38.5     | 46.50 | 38.50 | 35.50 | 18.00 | 35.5 x 35.5  |
| PNUXP300RG         | CR38.5     | 46.50 | 38.50 | 35.50 | 18.00 | 35.5 x 35.5  |
| PNU365RG           | CR44.5     | 52.50 | 44.50 | 41.50 | 18.00 | 41.5 x 41.5  |
| PNUHP365RG         | CR44.5     | 52.50 | 44.50 | 41.50 | 18.00 | 41.5 x 41.5  |
| PNUXP365RG         | CR44.5     | 52.50 | 44.50 | 41.50 | 18.00 | 41.5 x 41.5  |
| PNU425RG           | CR58.5     | 66.50 | 58.50 | 55.50 | 18.00 | 55.5 x 55.5  |
| PNU490RG           | CR58.5     | 66.50 | 58.50 | 55.50 | 18.00 | 55.5 x 55.5  |

\* Standard height; other heights available.

\*\* Used with RF and SE models.

Dimensions shown in inches.



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## OPTIONAL ACCESSORIES

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### External Grease Trough



### Roof Mount

An optional external grease trough is available for installation on the fan or roof curb. This allows grease to be collected in a "slip out" grease trough that does not require tools for removal.

### Wall Mount

An optional external grease trough is available for installation on the fan windband. A specially designed cover collects grease from the drip ring in a "slip out" grease trough that does not require tools for removal.

## COATINGS

Aluminum and galvanized components remain unpainted as a standard finish, but when required, are processed through the finishing system to apply decorative or special coatings. A high turbulence oven is used to produce a baked on finish for most special coatings. Decorative coatings are not baked on.

## DECORATIVE COATINGS

Acme offers 16 popular colors for decorative finishes utilizing an industrial grade enamel applied to the exterior of fan. Special colors are available upon request. See your Acme Representative for complete color selections.

## SPECIAL COATINGS

Products receiving special coatings have components painted before assembly. Fasteners are not painted.

### • ACRYLIC EPOXY

This product provides a more durable surface.

### • HERESITE (Air Dry)

A phenolic coating with greater resistance to most organic and inorganic acids.

**NOTE:** For any coating selected the user assumes the responsibility for the corrosive agent, its concentration, temperature, moisture content and the ultimate effect on the coating and the equipment.

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## TYPICAL SPECIFICATIONS

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Roof (wall) exhaust fans shall be upblast centrifugal belt drive (direct drive) type.

The fan impeller shall be centrifugal with single thickness backward curved airfoil blades constructed of aluminum (steel for PNU-SE). The impeller shall be optimally matched with a die-formed orifice and shall be dynamically balanced.

The fan housing shall be constructed of heavy gauge aluminum with rigid steel internal supports and integral drain. Windband shall have a rolled bead for strength and shall be joined to the curbcap using Acme's SeamLock manufacturing method.

Sealed ball bearing motors shall be mounted out of the airstream. The motor compartment shall be ventilated with fresh outside air by the "forced air" cooling system.

The structural steel frame shall transmit the weight of the motor and impeller directly to the windband/curb to prevent orifice distortion.

Fan shall be designed to create a high velocity discharge jet which produces a high upward (outward) throw of exhaust air above the roof (wall) level.

Quick release latches shall be standard for easy access to the motor compartment. Grease exhausting fans and PNU-SE shall

have a handle on the motor cover for fast, easy access to the motor compartment.

Birdscreen shall be made from heavy gauge galvanized wire forming concentric circles and attached at the top of the windband.

A disconnect device/switch shall be factory installed and wired from the fan motor.

Wiring shall comply with the National Electric Code. Models PDU-RF and PNU-RF shall be listed by Underwriters Laboratories (UL705).

Model PDU-RG shall be listed by Underwriters Laboratories (UL762) for restaurant exhaust in their "Fire Protection Equipment Directory" under "Power Ventilators for Restaurant Exhaust Applications (YZHW)."

Model PNU-SE is Listed for electrical (UL/C-UL 705) File No. E39982 and is Listed for Power Ventilator for Smoke Control Systems File No. MH25680.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Fan shall be Models (PDU-RF, PDU-RG, PNU-RF, PNU-RG or PNU-SE) as manufactured by Acme Engineering and Manufacturing Corporation of Muskogee, Oklahoma.

# APPLICATION GUIDE FOR RESTAURANT VENTILATION

Good ventilation is essential in commercial kitchens to maintain efficient and sanitary operations in first class food service establishments.

This section covers general procedures to estimate fan size and exhaust quantities. Recent hood designs may alter the exhaust requirements. The hood manufacturer may specify different capacities.

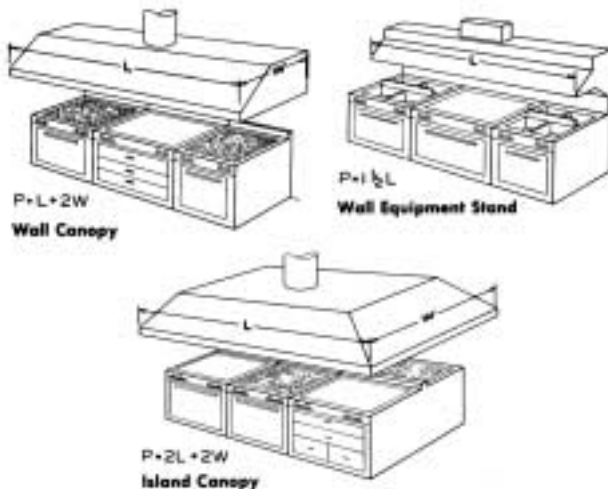
This application guide was prepared to assist in the proper selection of efficient and economical exhaust equipment for standard hood designs.

On long canopies, two smaller exhausters usually provide a more uniform air distribution than a single large unit and the operation of only one unit during off-peak periods reduces loss of heat in winter and cooling in summer. Two exhausters are recommended for island type canopies over 10.00 ft. long and for wall type canopies over 18.00 ft. long.

Canopies should extend 8.00" beyond the appliance covered to ensure best capture of heat and vapors. Some ordinances require that the canopy extend beyond the appliance by 25% of the width of the appliance. Consult with local authorities.

## Selection of Proper Exhauster

1. Determine the **exposed perimeter (P)** for the appropriate **type canopy** shown in the drawings below. The exposed perimeter is the total distance in feet around the open side of the canopy.



2. **Calculate** the required air volume using one the formulas:  
 $CFM = 175 \times P$  for canopies 3.50' above appliance.  
 $CFM = 225 \times P$  for canopies 4.50' above appliance.
3. Determine the **maximum allowable duct size** to comply with NFPA 96 minimum velocity of 1500 **FPM**.  

$$\text{Maximum Duct area in Sq. Ft.} = \frac{CFM}{1500}$$
4. Using maximum duct area just calculated determine next smaller **SELECTED DUCT DIAMETER** from Table A.
5. Estimate the applicable **static pressure** from Table B.
6. Select the proper exhauster by using the performance table shown in this catalog or the FANTastic! Selection Program.

| TABLE A                              |                                 |                                 |
|--------------------------------------|---------------------------------|---------------------------------|
| Selected Duct Area ( $A_s$ ) sq. ft. | Selected Duct Diameter (Inches) | Equivalent Square Duct (Inches) |
| .196                                 | 6.00                            | 5.31 x 5.31                     |
| .349                                 | 8.00                            | 7.06 x 7.06                     |
| .545                                 | 10.00                           | 8.88 x 8.88                     |
| .785                                 | 12.00                           | 10.63 x 10.63                   |
| 1.07                                 | 14.00                           | 12.44 x 12.44                   |
| 1.40                                 | 16.00                           | 14.19 x 14.19                   |
| 1.77                                 | 18.00                           | 15.94 x 15.94                   |
| 2.18                                 | 20.00                           | 17.75 x 17.75                   |
| 2.64                                 | 22.00                           | 19.50 x 19.50                   |
| 3.14                                 | 24.00                           | 21.25 x 21.25                   |
| 3.69                                 | 26.00                           | 23.00 x 23.00                   |
| 4.91                                 | 30.00                           | 26.56 x 26.56                   |

| TABLE B                |             |     |     |               |        |
|------------------------|-------------|-----|-----|---------------|--------|
| STATIC PRESSURE LOSSES |             |     |     |               |        |
| No. of Elbows          | Duct Length |     |     | Grease Filter |        |
|                        | 10'         | 20' | 30' | 2" Mesh       | Baffle |
| 0                      | .13         | .17 | .21 | .25           | .55    |
| 1                      | .31         | .35 | .39 | .25           | .55    |
| 2                      | .49         | .53 | .57 | .25           | .55    |

Based on average duct velocity of 1700 FPM.

## EXAMPLE

Select a roof exhauster for a wall canopy 102.00" long and 36.00" wide having mesh type grease filters with 10.00' duct and 1 elbow.

1.  $P = L + 2W = 8.5' + (2 \times 3') = 14.5'$
2.  $CFM = 175 \times P = 175 \times 14.5' = 2538 \text{ CFM}$
3.  $\text{Max. Duct Area} = \frac{CFM}{1500} = \frac{2538}{1500} = 1.69 \text{ sq. ft.}$
4. The next size smaller duct is 16.00" diameter having 1.39 sq. ft.  

$$\text{The duct velocity} = \frac{2538}{1.39} = 1826 \text{ FPM (OK per NFPA 96 code).}$$
5. Static pressure calculation:  
 Static pressure = .31" for duct + .25" for filter = .56" total
6. A PDU165RG with a 1/2 HP motor delivers 2538 CFM at .56" S.P. when running at 1160 fan RPM. Noise level rating is 16.2 sones.
7. A PNU165RG with a 1/2 HP motor delivers 2538 CFM at .56" S.P. when running at 1213 fan RPM.



# APPLICATION GUIDE FOR RESTAURANT VENTILATION

## Minimum Duct Sizes at Fan Inlet

The tabular performances shown in this catalog are applicable to systems where the duct size at the fan inlet is equal to or larger than the fan inlet orifice shown in Table C below. For smaller duct sizes there will be a loss in CFM performance due to the restriction to flow caused by the smaller duct and the larger fan inlet orifice.

The condition can occur where it is necessary to reduce the area of the inlet duct to comply with the 1500 FPM minimum duct velocity required to meet the NFPA 96 code.

To compensate for these losses, apply the correction factor in Table D using the following:

- Compute the ratio of areas: divide the SELECTED DUCT AREA ( $A_s$ ) by the fan inlet orifice area ( $A_m$ ) for fan model listed in Table C.
- From Table D, select the corresponding correction factor nearest to the ratio obtained in A.
- Multiply the specified CFM by the correction factor to get the adjusted CFM. NOTE: for ratios of 1.00 or above no correction is necessary.

| TABLE C           |                   |                        |
|-------------------|-------------------|------------------------|
| Fan Inlet Orifice |                   |                        |
| Model Size        | Diameter (Inches) | Area Sq. Ft. ( $A_m$ ) |
| PDU080            | 6.69              | .24                    |
| PDU100            | 6.18              | .21                    |
| PDU110            | 6.63              | .24                    |
| PDU/PNU120        | 7.50              | .31                    |
| PDU/PNU135        | 8.44              | .39                    |
| PDU/PNU135        | 8.44              | .39                    |
| PDU/PNU150        | 9.38              | .48                    |
| PDU/PNU165        | 10.06             | .55                    |
| PDU/PNU185        | 11.57             | .73                    |
| PDU/PNU200        | 12.31             | .82                    |
| PNU245            | 15.18             | 1.26                   |
| PNU300            | 18.34             | 1.85                   |
| PNU365            | 22.47             | 2.75                   |
| PNU425            | 26.17             | 3.74                   |
| PNU490            | 30.17             | 4.96                   |

| TABLE D                               |                       |
|---------------------------------------|-----------------------|
| Ratio Duct Areas<br>$\frac{A_s}{A_m}$ | CFM Correction Factor |
| 1.00 and above                        | No correction         |
| .90                                   | 1.06                  |
| .80                                   | 1.15                  |
| .70                                   | 1.21                  |
| .60                                   | 1.28                  |
| .50                                   | 1.34                  |

- Obtain the adjusted CFM, when required, by referring to performance chart and adjust the RPM of selected model to new setting, or select another fan model. (For example below, no adjustment was necessary.)

$$\text{Example: } \frac{A_s}{A_m} = \frac{1.39}{.55} = 2.53$$

## Make-up Air

In order to maintain the designed velocity of kitchen range hoods, it is vital to supply an adequate amount of air to the kitchen.

It is also advisable to limit the velocity of air intake to two or three hundred feet per minute (FPM), in order to minimize draft within the cooking area. Depending on the size of the installation, it may be advisable to bring tempered air into the kitchen area.

The general rule for make-up air is to provide slightly less (approximately 15%) than the total air exhausted, allowing the difference to be drawn from the dining room. This will prevent kitchen odors entering the dining room since the kitchen is at a slightly negative pressure and the airflow from the dining room will be toward the kitchen.



## Notes for Kitchen Hood Installation

- Use upblast discharge fan. Downblast is not recommended.
- Select fan for design Air and Static Pressure resistance of filters and ductwork.
- Adjust fan specification for expected exhaust air temperature.
- When air is contaminated with grease vapors from cooking operations, maintenance may be required as often as once a week. Regular maintenance should include inspection and cleaning of all fan parts. See Installation and Maintenance Instructions.



#### CENTRIFUGAL EXHAUSTERS



#### CEILING AND CABINET EXHAUSTERS



#### IN-LINE CENTRIFUGAL FANS



#### IN-LINE AXIAL FANS



#### PROPELLER ROOF FANS



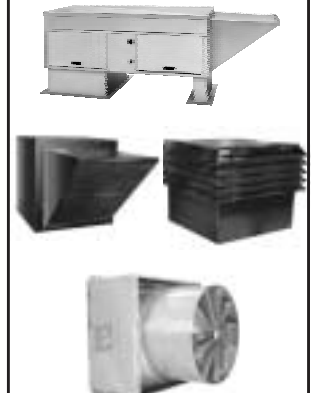
#### PROPELLER WALL FANS



#### UTILITY BLOWERS



#### SUPPLY AIR FANS



#### ROOF VENTS



#### PLENUM FANS



#### BACKWARD INCLINED/AIRFOIL CENTRIFUGAL FANS



#### CENTRIFUGAL INDUSTRIAL EXHAUSTERS



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

**WARNING** DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments. Comply with all local

and national safety codes including the National Electrical Code (NEC) and National Fire Protection Act (NFPA).

**CAUTION** Guards must be installed when fan is within reach of personnel or within seven (7) feet (2.134 m) of working level or when deemed advisable for safety.

**DISCLAIMER** The Company has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions or dimension.



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