# Air Movement
## SOURCE BOOK

ACME AIR MOVING SOLUTIONS

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ACME

Est. 1938

# Direct Drive Centrifugal Roof/Wall Exhauster

## Models PDU

Est. 1938

| Includes the following Model/Options | | | |
|---|---|---|---|
| PDURF | General Ventilation | PDURG | Grease Fan |
| PDURFH | General Ventilation Hurricane Rated | PDURGH | Grease & Hurricane Rated |
| PDURFSC | General Ventilation Seismic Rated | PDURGSC | Grease Fan & Seismic Rated |
| PDURFW | Wall Exhaust General Ventilation | PDURGW | Grease Fan Wall Mounted |
| PDURFHW | Hurricane Rated Wall Exhaust | PDURGHW | Hurricane Rated Grease Fan Wall Mounted |

MIAMI-DADE COUNTY APPROVED

Centrifugal Exhausters

Models PDURF and PDURG (restaurant exhauster) are direct drive upblast centrifugal exhausters. Capacities up to 8,248 CFM and up to 1.8 inches static pressure. The PDURF is a clean air ventilator designed for high velocity vertical discharge. Model PDURG is ideally suited for removal of grease laden exhaust found in restaurant and commercial kitchen applications. Other applications include a wide range of commercial, industrial, and institutional facilities such as schools, hospitals, prisons, and assembly areas.

2 YEAR COMPREHENSIVE WARRANTY

| Standard Construction Features | PDURF | PDURFH | PDURFSC | PDURFW | PDURFHW | PDURG | PDURGH | PDURGSC | PDURGW | PDURGHW |
|---|---|---|---|---|---|---|---|---|---|---|
| Heavy Gauge Aluminum Windband | x | x | x | x | x | x | x | x | x | x |
| Quick Release Latch | x | x | x | x | x | x | x | x | x | |
| Aluminum Wheel | x | x | x | x | x | x | x | x | x | x |
| Continuous Duty Motors | x | x | x | x | x | x | x | x | x | x |
| EC Motors | x | x | x | x | x | | | | | |
| * ! NEMA 1 Disconnect mounted under hood | x | x | x | x | x | | | | | |
| Disconnect Weather Resistant | | | | | | x | x | x | x | x |
| Conduit post through curb cap | x | x | x | x | | | | | | |
| Conduit post through windband | | | | | | x | x | x | x | x |
| Galvanized Birdscreen | x | x | x | x | x | | | | | |
| Wall Mounting Adapter | | | | x | x | | | | x | x |
| Hurricane Rated | | x | | | x | | x | | | x |
| Seismic Certified (OSHPD) | | | x | | | | | x | | |
| Restaurant Grease Rated UL762 | | | | | | x | x | x | x | x |
| UL705 | x | x | x | x | x | x | x | x | x | x |

Listed models are available in all sizes and performance ranges.

For submittals, detailed air and sound information, available options and accessories, please go to FANtastic!® Commercial www.acmefan.com.

*Fans with EXP motors receive an EXP Disconnect not mounted or wired

! Fans rated for restaurant applications have a weather proof disconnect mounted on outside of fan.

## Construction Features

### Housing

- Windband constructed of heavy gauge aluminum with rolled bead for strength
- Sealed windband perimeter to prevent leakage
- Quick release latches allow easy removal of motor compartment cover without special tools
- Heavy gauge galvanized wire birdscreen (PDURF only)
- Aluminum curb cap

### Centrifugal Wheel

- Aluminum construction backward curved blade
- Non-overloading design for safe operation
- Wheel optimally matched with die-formed orifice
- Precision balanced for smooth vibration free operation

### Motors

- Continuous duty motors with sealed ball bearings located outside the airstream
- Large breather tube directs outside air into the motor compartment resulting in maximum life
- Motor compartment cooled by fins located on top of impeller

EC MOTOR

## Options/Accessories

- Roof Curbs
- Dampers
- Coatings
- Birdscreen (PDURG)
- Grease Trough
- Curb Hinge

amca CERTIFIED RATINGS sound and AIR PERFORMANCE AIR MOVEMENT AND CONTROL ASSOCIATION, INC.

Acme Engineering & Manufacturing Corporation certifies that the models 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.

c UL us

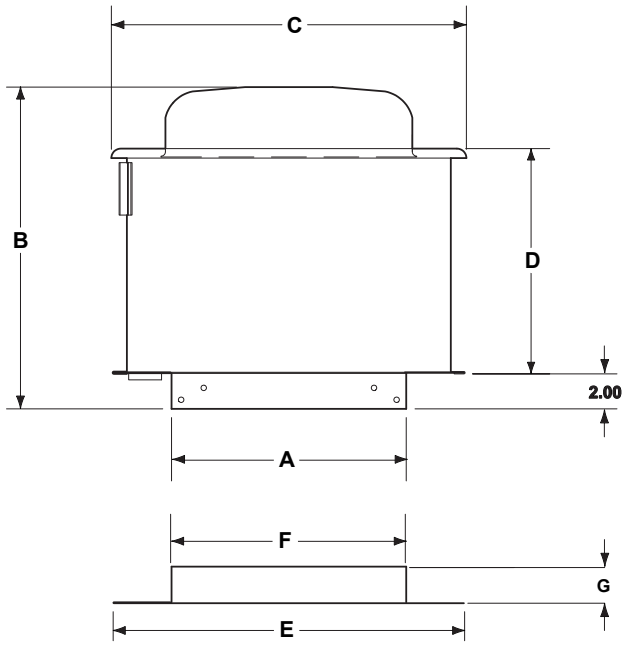
**Model PDURF is Listed for Electrical (UL/C-UL 705) File No. E39982.**
**Model PDURG is Listed for (UL 762) File No. MH11542.**

*Consult your Acme representative for availability.*

# Direct Drive Centrifugal Roof/Wall Exhauster

## Models PDU






**Note: E is square dimension**

| DIMENSIONS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fan Model | A | B | C | D | Wall Mounted Fans Only | | | Roof Opening *‡ | Est. Unit Wt. | Est. Ship Wt. | Damper Model | Roof Curb ‡ | |
| | | | | | E | F | G | | | | | RF | RG |
| PDU080 | 13.50 | 13.06 | 20.63 | 12.84 | 17.08 | 13.08 | 2.08 | 9 x 9 | 23 | 36 | AR8.75 | C12 | CR12 |
| PDU100 | 13.50 | 16.10 | 20.63 | 12.84 | 17.08 | 13.08 | 2.08 | 9 x 9 | 30 | 43 | AR8.75 | C12 | CR12 |
| PDU110 | 13.50 | 16.41 | 20.63 | 12.84 | 17.08 | 13.08 | 2.08 | 9 x 9 | 30 | 43 | AR8.75 | C12 | CR12 |
| PDU120 | 19.00 | 19.48 | 26.41 | 16.59 | 22.64 | 18.67 | 2.12 | 14.5 x 14.5 | 50 | 72 | AR14 | C17.5 | CR17.5 |
| PDU135 | 19.00 | 20.87 | 26.41 | 16.59 | 22.64 | 18.67 | 2.12 | 14.5 x 14.5 | 50 | 72 | AR14 | C17.5 | CR17.5 |
| PDU150 | 24.00 | 23.89 | 30.16 | 21.92 | 27.58 | 23.58 | 2.13 | 19.5 x 19.5 | 76 | 102 | AR18 | C22.5 | CR22.5 |
| PDU165 | 24.00 | 23.89 | 30.16 | 21.92 | 27.58 | 23.58 | 2.13 | 19.5 x 19.5 | 76 | 102 | AR18 | C22.5 | CR22.5 |
| PDU185 | 28.00 | 25.75 | 34.65 | 21.99 | 31.58 | 27.58 | 2.13 | 23.5 x 23.5 | 94 | 179 | AR22 | C26.5 | CR26.5 |
| PDU200 | 28.00 | 25.75 | 34.65 | 21.99 | 31.58 | 27.58 | 2.13 | 23.5 x 23.5 | 94 | 179 | AR22 | C26.5 | CR26.5 |

Dimensions are shown in inches.
*Recommended maximum.
‡ Please contact your local representative for correct rated sizing for hurricane.

# PDU080

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | RPM | 0.000" | | 0.125" | | 0.250" | | 0.375" | | 0.500" | | 0.625" | | 0.750" | | 0.875" | | 1.000" | | 1.125" | | 1.250" | | 1.375" | |
| | | | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones |
| | EC-1/4 E4 | 300 | 72 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| | | 600 | 144 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.3 | | | | | | | | | | | | | | | | | | | | | | |
| 1/10 | | 800 | 192 | | 126 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 1.1 | 0.01 | 3.8 | | | | | | | | | | | | | | | | | | | | |
| | | 1200 | 288 | | 271 | | 214 | | 100 | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 3.2 | 0.01 | 7.1 | 0.02 | 8.3 | 0.02 | 7.7 | | | | | | | | | | | | | | | | |
| | | 1600 | 384 | | 373 | | 357 | | 325 | | 252 | | 174 | | | | | | | | | | | | | |
| | | | 0.02 | 7.2 | 0.02 | 10.0 | 0.03 | 9.5 | 0.04 | 9.0 | 0.04 | 9.1 | 0.04 | 9.4 | | | | | | | | | | | | |
| 1/6 | | 1725 | 414 | | 403 | | 390 | | 369 | | 319 | | 247 | | 166 | | | | | | | | | | | |
| | | | 0.02 | 8.0 | 0.03 | 11.1 | 0.03 | 10.8 | 0.04 | 10.2 | 0.05 | 10.0 | 0.05 | 10.4 | 0.05 | 10.3 | | | | | | | | | | |
| | | 1800 | 432 | | 422 | | 410 | | 392 | | 356 | | 288 | | 224 | | 118 | | | | | | | | | |
| | | | 0.03 | 8.5 | 0.03 | 11.9 | 0.04 | 11.6 | 0.04 | 11.2 | 0.05 | 10.9 | 0.06 | 10.9 | 0.06 | 11.4 | 0.06 | 10.3 | | | | | | | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU080* | 1/10 Hp | 800 - 1600 | 36 | 40 |
| PDU080 D4** | 1/6 Hp | 1725 - 1725 | 36 | 40 |
| PDU080EC E4* | 1/4 Hp | 300 - 1800 | 36 | 40 |

# PDU100

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | RPM | 0.000" | | 0.125" | | 0.250" | | 0.375" | | 0.500" | | 0.625" | | 0.750" | | 0.875" | | 1.000" | | 1.125" | | 1.250" | | 1.375" | |
| | | | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones |
| | EC-1/4 E4 | 300 | 146 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| | | 600 | 295 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 1.5 | | | | | | | | | | | | | | | | | | | | | | |
| 1/10 | | 815 | 402 | | 288 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 3.2 | 0.01 | 2.9 | | | | | | | | | | | | | | | | | | | | |
| | | 1200 | 592 | | 514 | | 439 | | 299 | | | | | | | | | | | | | | | | | |
| | | | 0.02 | 7.1 | 0.03 | 6.8 | 0.04 | 6.5 | 0.04 | 6.4 | | | | | | | | | | | | | | | | |
| | | 1630 | 805 | | 748 | | 689 | | 633 | | 576 | | 475 | | 360 | | | | | | | | | | | |
| | | | 0.06 | 12.0 | 0.07 | 11.9 | 0.09 | 11.4 | 0.09 | 10.7 | 0.09 | 9.6 | 0.09 | 8.9 | 0.09 | 9.1 | | | | | | | | | | |
| 1/6 | | 1725 | 852 | | 798 | | 742 | | 688 | | 638 | | 566 | | 454 | | 358 | | | | | | | | | |
| | | | 0.07 | 13.3 | 0.08 | 13.2 | 0.10 | 12.8 | 0.11 | 12.1 | 0.11 | 11.1 | 0.11 | 10.3 | 0.11 | 9.5 | 0.11 | 10.0 | | | | | | | | |
| | | 1800 | 889 | | 837 | | 784 | | 732 | | 682 | | 628 | | 536 | | 424 | | 326 | | | | | | | |
| | | | 0.08 | 14.2 | 0.09 | 14.3 | 0.11 | 13.9 | 0.12 | 13.2 | 0.12 | 12.3 | 0.12 | 11.2 | 0.12 | 10.6 | 0.12 | 10.6 | 0.12 | 10.7 | | | | | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU100* | 1/10 Hp | 815 - 1630 | 37 | 40 |
| PDU100D4** | 1/6 Hp | 1725 - 1725 | 37 | 40 |
| PDU100EC E4* | 1/4 Hp | 300 - 1800 | 37 | 41 |

* Motor can be controlled by speed controller
** Motor to run at maximum RPM (Explosion proof Motors and Non VFD compatible motors)
Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horse-power capability of an exhauster 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. Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use solid state controller.

# PDU120

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | RPM | 0.000" | | 0.125" | | 0.250" | | 0.375" | | 0.500" | | 0.625" | | 0.750" | | 0.875" | | 1.000" | | 1.125" | | 1.250" | | 1.375" | |
| | | | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones |
| | | 300 | 310 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| | | 600 | 624 | | 326 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 2.2 | 0.01 | 2.3 | | | | | | | | | | | | | | | | | | | | |
| | | 840 | 875 | | 713 | | 447 | | | | | | | | | | | | | | | | | | | |
| | | | 0.02 | 5.1 | 0.03 | 5.5 | 0.03 | 5.1 | | | | | | | | | | | | | | | | | | |
| | | 863 | 899 | | 745 | | 484 | | | | | | | | | | | | | | | | | | | |
| | | | 0.02 | 4.7 | 0.03 | 4.8 | 0.03 | 5.0 | | | | | | | | | | | | | | | | | | |
| 1/10 | EC-1/4 E4 | 1200 | 1251 | | 1153 | | 1025 | | 837 | | 651 | | 244 | | | | | | | | | | | | | |
| | | | 0.07 | 9.0 | 0.07 | 8.2 | 0.08 | 8.2 | 0.09 | 7.8 | 0.09 | 8.6 | 0.07 | 7.7 | | | | | | | | | | | | |
| | | 1623 | 1692 | | 1626 | | 1544 | | 1452 | | 1347 | | 1202 | | 1059 | | 920 | | 798 | | 612 | | | | | |
| | | | 0.16 | 12.8 | 0.17 | 13.5 | 0.19 | 12.9 | 0.20 | 12.8 | 0.22 | 12.6 | 0.22 | 12.5 | 0.23 | 12.8 | 0.23 | 13.3 | 0.23 | 13.7 | 0.22 | 13.5 | | | | |
| | | 1680 | 1751 | | 1689 | | 1610 | | 1522 | | 1427 | | 1294 | | 1155 | | 1020 | | 895 | | 772 | | 97 | | | |
| | | | 0.18 | 13.8 | 0.19 | 14.5 | 0.20 | 14.0 | 0.22 | 13.9 | 0.24 | 13.5 | 0.24 | 13.4 | 0.25 | 13.5 | 0.25 | 14.1 | 0.25 | 14.6 | 0.25 | 14.8 | 0.17 | 8.9 | | |
| 1/4 | | 1750 | 1825 | | 1765 | | 1692 | | 1607 | | 1521 | | 1405 | | 1271 | | 1139 | | 1010 | | 897 | | 773 | | | |
| | | | 0.20 | 14.8 | 0.21 | 15.5 | 0.23 | 14.9 | 0.24 | 14.8 | 0.26 | 14.5 | 0.27 | 14.3 | 0.28 | 14.3 | 0.28 | 14.7 | 0.28 | 15.2 | 0.28 | 15.6 | 0.28 | 15.8 | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs | Est. Ship Wt. lbs |
|---|---|---|---|---|
| PDU120 E4* | 1/4 Hp | 840 - 1680 | 115 | 121 |
| PDU120 E4** | 1/4 Hp | 1725 - 1725 | 115 | 121 |
| PDU120 E4** | 1/4 Hp | 1750 - 1750 | 115 | 121 |
| PDU120EC E4** | 1/4 Hp | 300 - 1623 | 60 | 64 |

# PDU135

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | RPM | 0.000" | | 0.125" | | 0.250" | | 0.375" | | 0.500" | | 0.625" | | 0.750" | | 1.000" | | 1.250" | | 1.500" | | 1.750" | | 1.875" | |
| | | | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone | BHP | Sone |
| | | 300 | 444 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 3.9 | | | | | | | | | | | | | | | | | | | | | | |
| | | 580 | 862 | | 623 | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.02 | 13.1 | 0.02 | 12.3 | | | | | | | | | | | | | | | | | | | | |
| 1/3 | EC-1/4 E4 | 813 | 1210 | | 1052 | | 866 | | 209 | | | | | | | | | | | | | | | | | |
| | | | 0.04 | 24 | 0.05 | 24 | 0.06 | 22 | 0.04 | 17.6 | | | | | | | | | | | | | | | | |
| | | 1160 | 1727 | | 1619 | | 1505 | | 1385 | | 1245 | | 1070 | | 669 | | | | | | | | | | | |
| | | | 0.12 | 39 | 0.14 | 42 | 0.16 | 42 | 0.17 | 39 | 0.18 | 38 | 0.18 | 38 | 0.16 | 36 | | | | | | | | | | |
| 1/2 | | 1624 | 2419 | | 2341 | | 2263 | | 2185 | | 2100 | | 2015 | | 1929 | | 1727 | | 1469 | | 390 | | | | | |
| | | | 0.34 | 77 | 0.36 | 78 | 0.38 | 78 | 0.41 | 76 | 0.43 | 75 | 0.44 | 75 | 0.46 | 74 | 0.49 | 69 | 0.5 | 73 | 0.29 | 54 | | | | |
| 1/2 | | 1725 | 2569 | | 2496 | | 2423 | | 2349 | | 2272 | | 2191 | | 2111 | | 1932 | | 1730 | | 1455 | | 219 | | | |
| | | | 0.4 | 89 | 0.43 | 93 | 0.45 | 94 | 0.48 | 92 | 0.5 | 90 | 0.52 | 88 | 0.54 | 89 | 0.57 | 89 | 0.59 | 80 | 0.6 | 86 | 0.29 | 53 | | |
| | | 1800 | 2681 | | 2611 | | 2540 | | 2470 | | 2398 | | 2321 | | 2244 | | 2081 | | 1899 | | 1665 | | 1280 | | 282 | |
| | | | 0.46 | 94 | 0.48 | 97 | 0.51 | 98 | 0.54 | 96 | 0.56 | 93 | 0.58 | 92 | 0.6 | 92 | 0.64 | 92.0 | 0.67 | 84 | 0.68 | 88 | 0.64 | 90 | 0.35 | 58 |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU135 F6* | 1/3 Hp | 580 - 1160 | 125 | 131 |
| PDU135 F6** | 1/3 Hp | 1160 - 1160 | 125 | 131 |
| PDU135 G4* | 1/2 Hp | 813 - 1625 | 125 | 131 |
| PDU135 G4** | 1/2 Hp | 1725 - 1725 | 125 | 131 |
| PDU135EC G4* | 1/2 Hp | 300 - 1624 | 80 | 94 |

* Motor can be controlled by speed controller
** Motor to run at maximum RPM (Explosion proof Motors and Non VFD compatible motors)
Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horse-power capability of an exhauster 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. Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use solid state controller.

# PDU150

PERFORMANCE DATA

CFM and Sones vs. Static Pressure

Motor HP: 1/3 — EC-1/2 G6, EC-1/2 G4 , 3/4 H4, EC-1 J4

| RPM | 0.000" BHP | 0.000" Sones | 0.125" BHP | 0.125" Sones | 0.250" BHP | 0.250" Sones | 0.375" BHP | 0.375" Sones | 0.500" BHP | 0.500" Sones | 0.625" BHP | 0.625" Sones | 0.750" BHP | 0.750" Sones | 1.000" BHP | 1.000" Sones | 1.250" BHP | 1.250" Sones | 1.500" BHP | 1.500" Sones | 1.750" BHP | 1.750" Sones |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 300 | 572 | | | | | | | | | | | | | | | | | | | | | |
| | 0.01 | 0.3 | | | | | | | | | | | | | | | | | | | | |
| 580 | 1113 | | 793 | | | | | | | | | | | | | | | | | | | |
| | 0.02 | 3.4 | 0.03 | 3.3 | | | | | | | | | | | | | | | | | | |
| 800 | 1537 | | 1307 | | 1065 | | | | | | | | | | | | | | | | | |
| | 0.05 | 6.8 | 0.06 | 7.4 | 0.07 | 6.6 | | | | | | | | | | | | | | | | |
| 1160 | 2230 | | 2073 | | 1911 | | 1751 | | 1585 | | 1356 | | | | | | | | | | | |
| | 0.16 | 11.3 | 0.18 | 10.9 | 0.19 | 9.9 | 0.21 | 9.9 | 0.22 | 9.3 | 0.22 | 8.4 | | | | | | | | | | |
| 1200 | 2307 | | 2155 | | 1999 | | 1842 | | 1692 | | 1487 | | | | | | | | | | | |
| | 0.18 | 12.0 | 0.19 | 11.6 | 0.21 | 10.6 | 0.23 | 10.4 | 0.24 | 9.8 | 0.25 | 8.9 | | | | | | | | | | |
| 1400 | 2692 | | 2561 | | 2430 | | 2295 | | 2160 | | 2032 | | 1886 | | 1467 | | | | | | | |
| | 0.28 | 15.4 | 0.30 | 15.5 | 0.32 | 14.6 | 0.34 | 13.9 | 0.36 | 13.4 | 0.38 | 12.6 | 0.39 | 12.8 | 0.38 | 11.0 | | | | | | |
| 1719 | 3305 | | 3199 | | 3092 | | 2985 | | 2876 | | 2766 | | 2656 | | 2446 | | 2173 | | 1813 | | | |
| | 0.52 | 21 | 0.54 | 22 | 0.56 | 22 | 0.59 | 21 | 0.61 | 19.7 | 0.64 | 18.8 | 0.67 | 18.7 | 0.71 | 17.6 | 0.72 | 16.4 | 0.71 | 15.7 | | |
| 1800 | 3461 | | 3360 | | 3258 | | 3155 | | 3052 | | 2947 | | 2842 | | 2640 | | 2414 | | 2110 | | | |
| | 0.60 | 23 | 0.62 | 24 | 0.64 | 24 | 0.67 | 23 | 0.69 | 22 | 0.72 | 21 | 0.75 | 20 | 0.80 | 19.0 | 0.83 | 19.4 | 0.83 | 17.8 | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU150 F6* | 1/3 Hp | 580 - 1160 | 150 | 189 |
| PDU150 F6** | 1/3 Hp | 1160 - 1160 | 150 | 189 |
| PDU150EC G4* | 1/2 Hp | 300 - 1719 | 131 | 170 |
| PDU150EC G6* | 1/2 Hp | 300 - 1200 | 131 | 170 |
| PDU150EC H4* | 3/4 Hp | 300 - 1719 | 131 | 170 |
| PDU150EC J4* | 1 Hp | 300 - 1800 | 131 | 170 |

# PDU165

PERFORMANCE DATA

CFM and Sones vs. Static Pressure

Motor HP: 1/2 — EC-1/2 G4

| RPM | 0.000" BHP | 0.000" Sones | 0.125" BHP | 0.125" Sones | 0.250" BHP | 0.250" Sones | 0.375" BHP | 0.375" Sones | 0.500" BHP | 0.500" Sones | 0.625" BHP | 0.625" Sones | 0.750" BHP | 0.750" Sones | 1.000" BHP | 1.000" Sones | 1.250" BHP | 1.250" Sones | 1.500" BHP | 1.500" Sones | 1.750" BHP | 1.750" Sones | 1.875" BHP | 1.875" Sones |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 300 | 834 | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.01 | 1.1 | | | | | | | | | | | | | | | | | | | | | | |
| 580 | 1619 | | 1309 | | 845 | | | | | | | | | | | | | | | | | | | |
| | 0.04 | 5.5 | 0.06 | 5.0 | 0.06 | 5.0 | | | | | | | | | | | | | | | | | | |
| 800 | 2234 | | 2013 | | 1782 | | 1458 | | 1091 | | | | | | | | | | | | | | | |
| | 0.12 | 10.6 | 0.14 | 10.8 | 0.16 | 9.5 | 0.16 | 9.4 | 0.17 | 9.6 | | | | | | | | | | | | | | |
| 1160 | 3241 | | 3087 | | 2934 | | 2780 | | 2618 | | 2431 | | 2193 | | 1691 | | | | | | | | | |
| | 0.36 | 18.9 | 0.39 | 19.1 | 0.41 | 18.7 | 0.44 | 17.6 | 0.47 | 16.8 | 0.49 | 16.8 | 0.50 | 15.7 | 0.50 | 16.5 | | | | | | | | |
| 1200 | 3353 | | 3204 | | 3056 | | 2908 | | 2754 | | 2585 | | 2369 | | 1882 | | | | | | | | | |
| | 0.40 | 19.6 | 0.43 | 19.9 | 0.45 | 19.5 | 0.48 | 18.6 | 0.51 | 17.8 | 0.53 | 17.5 | 0.55 | 16.9 | 0.56 | 16.9 | | | | | | | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU165 G6* | 1/2 Hp | 580 - 1160 | 145 | 183 |
| PDU165 G6** | 1/2 Hp | 1160 - 1160 | 145 | 183 |
| PDU165EC G4* | 1/2 Hp | 300 - 1200 | 137 | 137 |

* Motor can be controlled by speed controller
** Motor to run at maximum RPM (Explosion proof Motors and Non VFD compatible motors)
Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horse-power capability of an exhauster 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. Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use solid state controller.

# PDU185

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | RPM | 0.000" | | 0.125" | | 0.250" | | 0.375" | | 0.500" | | 0.625" | | 0.750" | | 0.875" | | 1.000" | | 1.125" | | 1.250" | | 1.375" | |
| | | | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones |
| 1/2 | EC-1/2 G6 | 300 | 1118 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 0.01 | 0.7 | | | | | | | | | | | | | | | | | | | | | | |
| | | 580 | 2168 | | 1875 | | 1485 | | | | | | | | | | | | | | | | | | | |
| | | | 0.06 | 4.3 | 0.07 | 3.6 | 0.08 | 3.7 | | | | | | | | | | | | | | | | | | |
| | | 800 | 2991 | | 2780 | | 2566 | | 2323 | | 1975 | | 1222 | | | | | | | | | | | | | |
| | | | 0.16 | 7.5 | 0.17 | 6.9 | 0.19 | 6.4 | 0.2 | 6.4 | 0.21 | 6.8 | 0.2 | 6.6 | | | | | | | | | | | | |
| | | 1041 | 3893 | | 3731 | | 3568 | | 3403 | | 3237 | | 3042 | | 2787 | | 2499 | | 2028 | | | | | | | |
| | | | 0.34 | 12.2 | 0.37 | 12 | 0.39 | 11.4 | 0.41 | 10.9 | 0.42 | 10.4 | 0.44 | 10.3 | 0.45 | 10.6 | 0.46 | 11 | 0.45 | 11 | | | | | | |
| | | 1160 | 4339 | | 4193 | | 4047 | | 3899 | | 3751 | | 3601 | | 3437 | | 3210 | | 2971 | | 2676 | | | | | |
| | | | 0.48 | 15.2 | 0.5 | 15.2 | 0.53 | 14.6 | 0.55 | 14 | 0.57 | 13.3 | 0.59 | 12.8 | 0.6 | 12.6 | 0.62 | 12.8 | 0.63 | 13.2 | 0.63 | 13.5 | | | | |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs | Est. Ship Wt. lbs |
|---|---|---|---|---|
| PDU185 G6* | 1/2 Hp | 580 - 1160 | 185 | 222 |
| PDU185 G6* | 1/2 Hp | 1160 - 1160 | 185 | 222 |
| PDU185EC G6* | 1/2 Hp | 300 - 1041 | 145 | 197 |

# PDU200

| PERFORMANCE DATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM and Sones vs. Static Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor HP | | | RPM | 0.000" | | 0.250" | | 0.375" | | 0.500" | | 0.750" | | 1.000" | | 1.250" | | 1.500" | | 1.750" | | 2.000" | | 2.500" | | 3.000" | | 4.000" | |
| | | | | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones | BHP | Sones |
| 1 | EC- 2 L6 | EC- 3 M4 | 300 | 1370 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0.01 | 1.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 600 | 2747 | | 2085 | | 1541 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 0.10 | 6.2 | 0.16 | 4.8 | 0.16 | 4.8 | | | | | | | | | | | | | | | | | | | | |
| | | | 800 | 3664 | | 3187 | | 2931 | | 2647 | | 1595 | | | | | | | | | | | | | | | | | |
| | | | | 0.24 | 9.8 | 0.32 | 8.5 | 0.36 | 8.0 | 0.39 | 7.5 | 0.35 | 7.6 | | | | | | | | | | | | | | | | |
| | | | 1000 | 4581 | | 4207 | | 4009 | | 3806 | | 3374 | | 2708 | | | | | | | | | | | | | | | |
| | | | | 0.47 | 14.9 | 0.57 | 13.8 | 0.62 | 13.2 | 0.67 | 13.1 | 0.76 | 12.0 | 0.77 | 12.4 | | | | | | | | | | | | | | |
| | | | 1160 | 5315 | | 4994 | | 4828 | | 4657 | | 4305 | | 3928 | | 3411 | | 2669 | | | | | | | | | | | |
| | | | | 0.73 | 20 | 0.85 | 18.3 | 0.91 | 18.3 | 0.97 | 17.6 | 1.08 | 17.4 | 1.18 | 16.6 | 1.21 | 16.5 | 1.15 | 17.0 | | | | | | | | | | |
| | | | 1200 | 5498 | | 5188 | | 5029 | | 4864 | | 4526 | | 4170 | | 3734 | | 3083 | | | | | | | | | | | |
| | | | | 0.81 | 21 | 0.93 | 18.9 | 0.99 | 18.9 | 1.06 | 18.4 | 1.18 | 17.9 | 1.28 | 17.2 | 1.34 | 17.0 | 1.32 | 17.3 | | | | | | | | | | |
| | | | 1500 | 6873 | | 6625 | | 6500 | | 6374 | | 6114 | | 5845 | | 5571 | | 5287 | | 4975 | | 4593 | | 3473 | | | | | |
| | | | | 1.57 | 29 | 1.73 | 27 | 1.81 | 26 | 1.88 | 26 | 2.04 | 25 | 2.20 | 25 | 2.34 | 24 | 2.48 | 23 | 2.57 | 22 | 2.62 | 22 | 2.49 | 23 | | | | |
| | | | 1800 | 8248 | | 8042 | | 7938 | | 7834 | | 7623 | | 7408 | | 7185 | | 6960 | | 6731 | | 6498 | | 5994 | | 5310 | | 4392 | |
| | | | | 2.72 | 38 | 2.90 | 36 | 3.00 | 36 | 3.09 | 35 | 3.28 | 35 | 3.47 | 34 | 3.66 | 33 | 3.84 | 33 | 4.01 | 32 | 4.17 | 31 | 4.43 | 30 | 4.53 | 30 | 4.39 | 31 |

| Fan Model | HP | RPM Range | Est. Unit Wt. lbs. | Est. Ship Wt. lbs. |
|---|---|---|---|---|
| PDU200 J6** | 1 Hp | 1160 - 1160 | 147 | 197 |
| PDU200EC L6* | 2 Hp | 300 - 1200 | 160 | 210 |
| PDU200EC M4* | 3 Hp | 300 - 1800 | 175 | 225 |

* Motor can be controlled by speed controller
** Motor to run at maximum RPM (Explosion proof Motors and Non VFD compatible motors)
Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horse-power capability of an exhauster 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. Maximum RPM shown obtained with the standard one speed motor, for all other RPM's use solid state controller.

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