



# Model AHX-E OEM Propellers



*8-Bladed AHX-E Propeller*

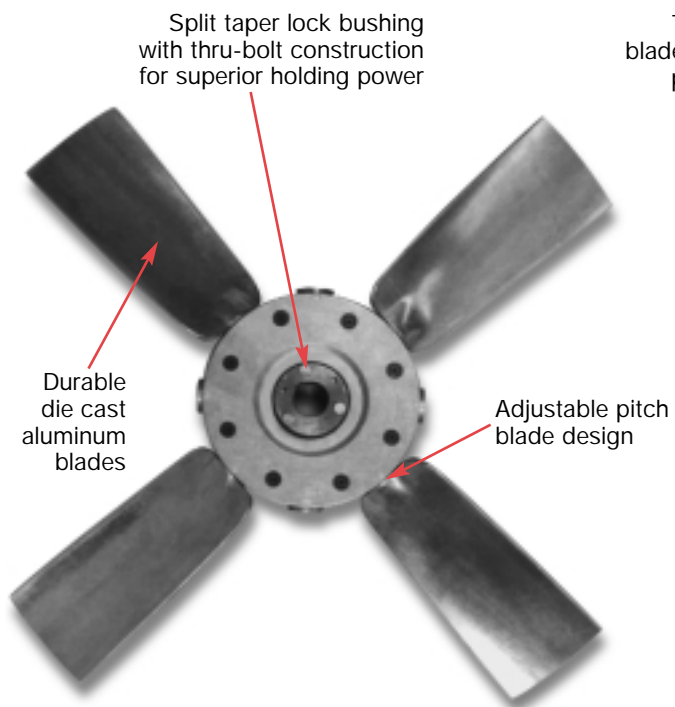
### Construction/Design Features

- Adjustable Pitch Blade Design
- Propeller Diameters available 14" through 48"
- 4 and 8 Bladed Configurations
- Durable Die Cast 380 Aluminum Alloy Construction
- Split Taper Lock Bushing (Thru-Bolt Design)
- True Airfoil Blade Design
- Shipped Fully Assembled

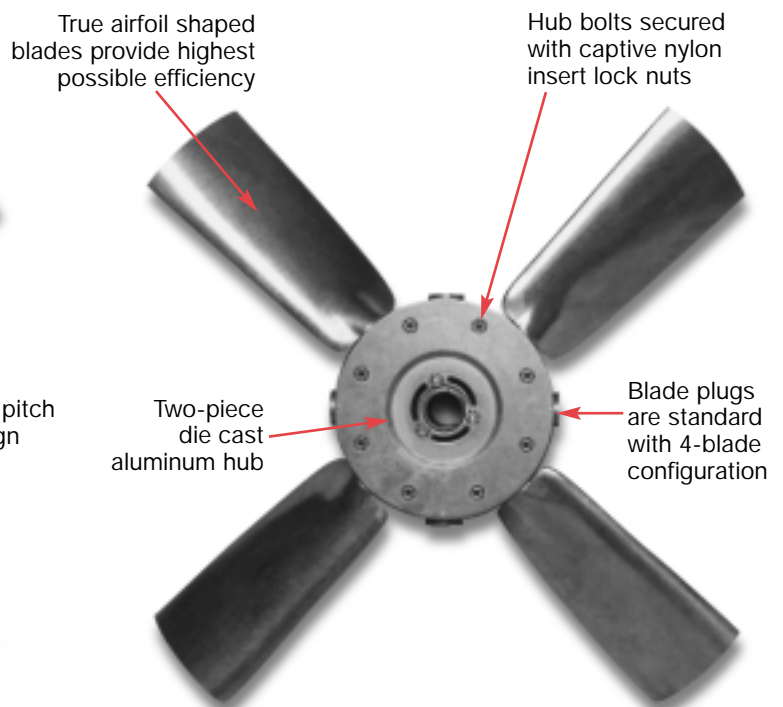
### Performance

- Capacity Range from 1,000 to 50,000 CFM at free air.
- Static Pressures to 2.5" w.g.
- Stable Non-Overloading Power Curve
- Highest Efficiencies in the Industry
- Maximum Tip Speeds — 18,000 fpm
- Maximum Temperature — 275°F (135°C)
- Standard Rotation is Clockwise (Facing Airflow)
- Air Performance Curves and Sound Data Available for both Belt and Direct Drive Applications

## Mechanical Features



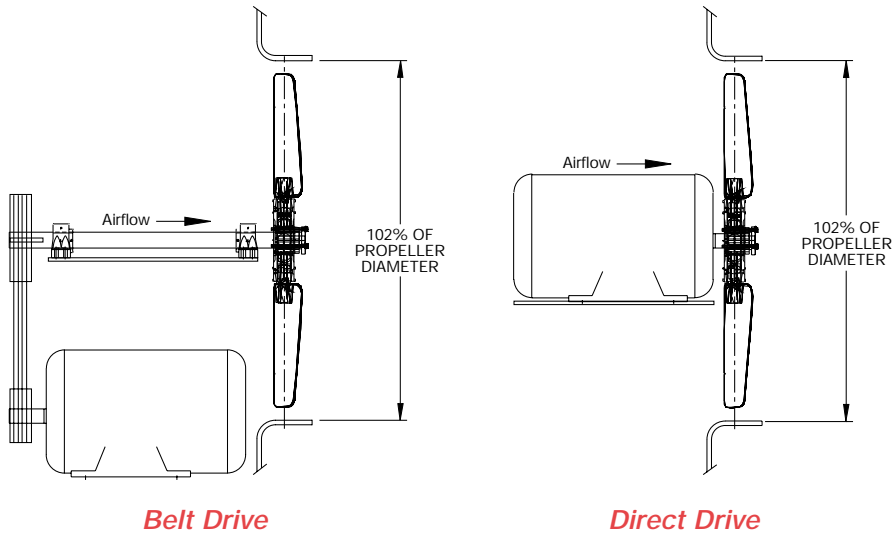
*4-Bladed AHX-E Propeller  
Air Leaving Side*



*4-Bladed AHX-E Propeller  
Air Entering Side*

# Performance Data

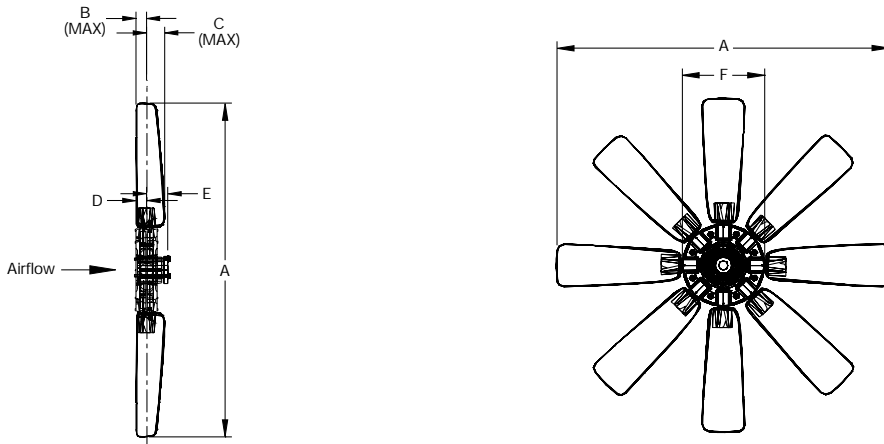
## As-tested configurations



| SIZE | MAX. PROPELLER RPM | MAX. TIP SPEED (FPM) | HP LIMIT |
|------|--------------------|----------------------|----------|
| 14   | 4911               | 18000                | 3        |
| 16   | 4297               | 18000                | 3        |
| 18   | 3820               | 18000                | 5        |
| 21   | 3274               | 18000                | 5        |
| 24   | 2865               | 18000                | 7.5      |
| 30   | 2292               | 18000                | 7.5      |
| 36   | 1910               | 18000                | 10       |
| 42   | 1637               | 18000                | 15       |
| 48   | 1432               | 18000                | 15       |

1. Fans tested in accordance with AMCA 210-85/ASHRAE 51-85, figure 12 for air performance.
2. Fans tested in accordance with AMCA 300-96 for sound.
3. BHP does not include belt drive losses.

# Dimensional Data



| SIZE | DIMENSIONS (IN.) |      |      |      |      |            | WEIGHT (LBS) |          | BORE SIZE RANGE |      |       |      | BUSHING TYPE | BUSHING BOLT TORQUE (IN-LBS) | HUB BOLT TORQUE (IN-LBS) |
|------|------------------|------|------|------|------|------------|--------------|----------|-----------------|------|-------|------|--------------|------------------------------|--------------------------|
|      | A                | B    | C    | D    | E    | F HUB DIA. | 4 BLADES     | 8 BLADES | MIN.            |      | MAX.  |      |              |                              |                          |
|      |                  |      |      |      |      |            |              |          | (IN.)           | (MM) | (IN.) | (MM) |              |                              |                          |
| 14   | 14.00            | 0.83 | 0.73 | 0.88 | 1.75 | 6          | 5.9          | 7.7      | 0.375           | 10   | 1.375 | 38   | H            | 87                           | 96                       |
| 16   | 16.00            | 0.89 | 0.77 | 0.88 | 1.75 | 6          | 6.2          | 8.1      | 0.375           | 10   | 1.375 | 38   | H            | 87                           | 96                       |
| 18   | 18.00            | 0.93 | 0.84 | 0.88 | 1.75 | 6          | 6.4          | 8.6      | 0.375           | 10   | 1.375 | 38   | H            | 87                           | 96                       |
| 21   | 21.00            | 0.96 | 0.93 | 0.88 | 1.75 | 6          | 6.9          | 9.6      | 0.375           | 10   | 1.375 | 38   | H            | 87                           | 96                       |
| 24   | 24.00            | 1.02 | 0.99 | 0.88 | 1.75 | 6          | 7.9          | 10.9     | 0.375           | 10   | 1.375 | 38   | H            | 87                           | 96                       |
| 30   | 30.00            | 1.04 | 2.07 | 1.13 | 1.94 | 9          | 17.7         | 24.0     | 0.750           | 14   | 1.437 | 42   | P            | 156                          | 204                      |
| 36   | 36.00            | 1.04 | 2.07 | 1.13 | 1.94 | 9          | 18.9         | 26.4     | 0.750           | 14   | 1.437 | 42   | P            | 156                          | 204                      |
| 42   | 42.00            | 1.90 | 2.30 | 1.25 | 1.81 | 12         | 34.7         | 49.6     | 0.750           | 14   | 1.437 | 42   | P            | 156                          | 204                      |
|      |                  |      |      |      | 2.25 |            |              |          | 1.500           | 18   | 2.062 | 65   | Q            | 290                          |                          |
| 48   | 48.00            | 1.75 | 2.51 | 1.25 | 1.81 | 12         | 36.1         | 52.3     | 0.750           | 14   | 1.437 | 42   | P            | 156                          | 204                      |
|      |                  |      |      |      | 2.25 |            |              |          | 1.500           | 18   | 2.062 | 65   | Q            | 290                          |                          |



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