

Medium-Duty Belt-Drive Exhaust Fan



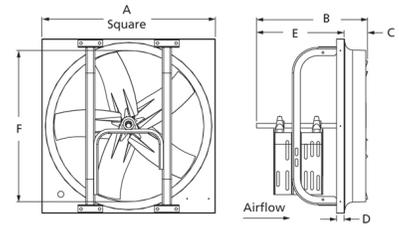
Designed for commercial and industrial applications requiring high volumes of air at low static pressures. Construction includes heavy-duty drive frame rails and one-piece motor/bearing plate. Propeller utilizes a five-blade reinforced galvanized steel design which provides low sound levels. Mount in vertical position for exhaust applications or horizontal position for supply applications.

- Variable pitch adjustable motor pulley to optimize fan performance
- Maximum inlet air temperature: 104° F
- 5-Blade reinforced galvanized steel propellers



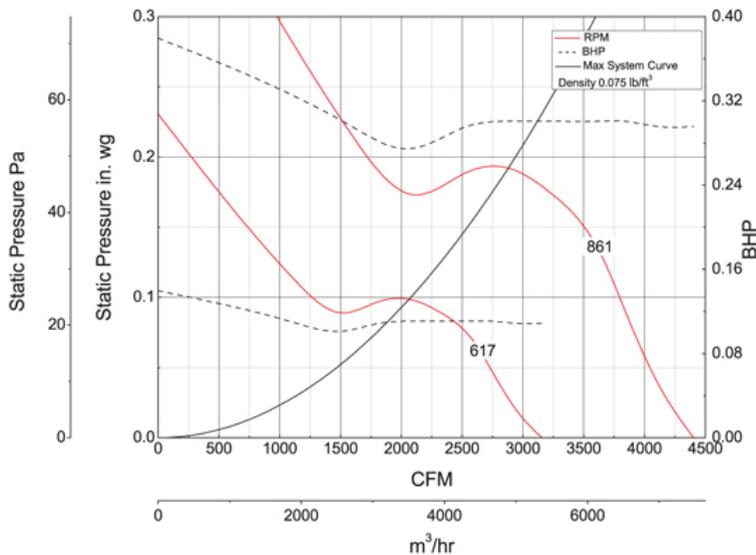
Dayton Electric Mfg. Co. certifies that the fans shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

UL/cUL 705



| A | B | C | D | E | F |
|-------|-----------|----------|------|-----------|-----------|
| 24 in | 19 1/2 in | 3 1/4 in | 1 in | 16 1/4 in | 20 1/2 in |

Performance Characteristics



Construction Features

| | |
|---------------------------|----------------------------|
| Impeller Diameter (Typ.) | 20 in |
| Impeller Type | Propeller |
| Impeller Material | Steel |
| Max Inlet Temp | 104 °F |
| Bearing Type | Sealed Pillow Block |
| Drive Package Description | Drives Packaged Separately |
| Warranty Length | 1 Year |

Motor Information

| | |
|-------------------|-----------------|
| Motor Item Number | 3K091 |
| Voltage | 115/208-230 |
| Hertz (Cycle) | 60 Hz |
| Motor Phase | 1 |
| Motor Enclosure | Open Drip Proof |
| RPM | 1,725 rpm |
| Full Load Amps | 4.6/2.2-2.3 |

Other Components

| Component | Description | Item # |
|-----------------|----------------|--------|
| Fan Description | Exhaust Fan | 3FKD8 |
| Belt | 4L290 (QTY: 1) | 4L290 |
| Driver Sheave | 1VP3412 | 5UHP9 |
| Driven Sheave | AK66 | 6YRD4 |
| Driven Bushing | QT34 | 5UJA2 |

Air & Sound Performance

| Motor HP | Max BHP | Fan RPM | CFM @ | 0.000" SP | 0.125" SP |
|----------|---------|---------|-------|-----------|-----------|
| 1/4 | 0.30 | 861 | CFM | 4404 | 3672 |
| | | | Sones | 14.3 | 14.0 |

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

Catalog 405, January 2010

Operating Range of Drive Package

| Turns Open | FRPM @ 0 TO | FRPM @ 1/2 TO | FRPM @ 1 TO | FRPM @ 1 1/2 TO | FRPM @ 2 TO | FRPM @ 2 1/2 TO | FRPM @ 3 TO | FRPM @ 3 1/2 TO | FRPM @ 4 TO | FRPM @ 4 1/2 TO | FRPM @ 5 TO |
|--------------|-------------|---------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| Approx. FRPM | 866 | 838 | 811 | 783 | 755 | 728 | 700 | 672 | 645 | 617 | — |