

## Wall Mount Cabinet Exhaust Fan



Designed for commercial and industrial applications requiring assembled packaged units able to deliver high volumes of air at low static pressures. Fans are completely assembled and ready for installation. Construction includes galvanized steel fan panel, fabricated propeller and bolted cabinets. Fan includes wall mounting angles for easy installation.

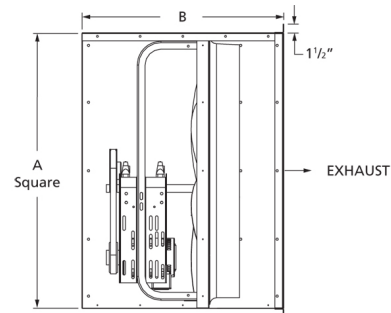
- Air handling quality bearings meet minimum of L10-100,000 hours
- Maximum inlet air temperature: 104° F
- Variable pitch adjustable motor pulley to optimize fan performance
- Exhaust damper blade is top-pivoting gravity return

AMCA Sound & Air Dayton Electric Mfg. Co. certifies that the ventilators 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

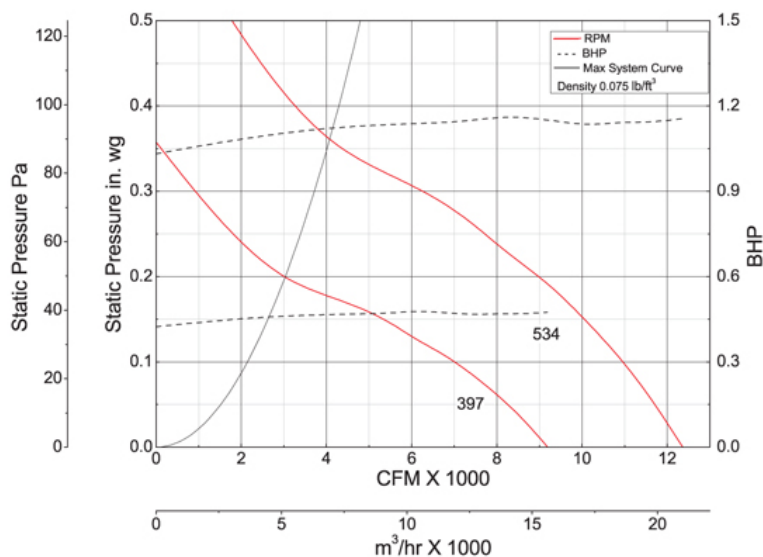


CSA Certified Motor



| A         | B         |
|-----------|-----------|
| 40 1/4 in | 34 5/8 in |

## Performance Characteristics



## Construction Features

|                           |                                |
|---------------------------|--------------------------------|
| Impeller Diameter (Typ.)  | 36 in                          |
| Impeller Type             | Propeller                      |
| Impeller Material         | Fabricated Steel               |
| Max Inlet Temp            | 104 °F                         |
| Bearing Type              | Regreaseable Cast Pillow Block |
| Drive Package Description | Drives Assembled               |
| Warranty Length           | 1 Year                         |

## Motor Information

|                   |                           |
|-------------------|---------------------------|
| Motor Item Number | 50M242                    |
| Voltage           | 115/208-230               |
| Hertz (Cycle)     | 60 Hz                     |
| Motor Phase       | 1                         |
| Motor Enclosure   | Totally Enclosed Air-Over |
| RPM               | 1,725 rpm                 |
| Full Load Amps    | 13.0/7.0-7.0              |

## Other Components

| Component       | Description | Item # |
|-----------------|-------------|--------|
| Fan Description | Exhaust Fan | —      |
| Driver Sheave   | 1VL44x5/8   | 3X276  |
| Driven Sheave   | BK140H      | 3X607  |
| Driven Bushing  | H x 1       | 3X576  |

## Air & Sound Performance

| Motor HP | Max BHP | Fan RPM | CFM @ | 0.000" SP | 0.125" SP | 0.250" SP |
|----------|---------|---------|-------|-----------|-----------|-----------|
| 1        | 1.16    | 534     | CFM   | 12,365    | 10,512    | 7712      |
|          |         |         | Sones | 17.8      | 16.3      | 15.5      |

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen and damper in the air stream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. 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 are for installation type A: Free inlet hemispherical 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 | 534         | 518           | 504         | 491             | 477         | 464             | 450         | 437             | 424         | 410             | 397         |