

# EC HIGH EFFICIENCY MOTORIZED IMPELLERS

## EC CENTRIFUGAL IMPELLERS (EC)

### FEATURES & BENEFITS

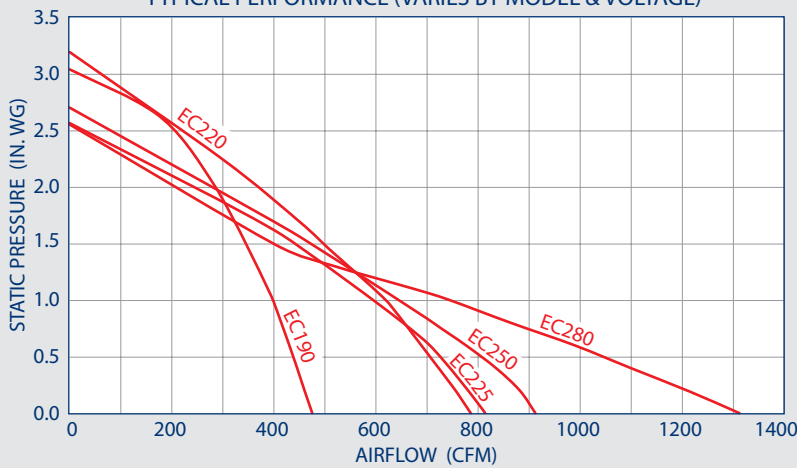
- EC (Electronically Commutated) external rotor motor
- 1-10 VDC or PWM motor control
- High efficiency backward curved impeller
- Compact design, superior performance
- Matching inlet cones included
- Input voltage: 208 - 277V 50/60 Hz single phase
- Permissible ambient temperature range: -4 F to 140 F
- Capacities to 1,139 cfm
- ErP and RoHs compliant
- UL approved (all models except EC280-2B78-1292)



### APPLICATIONS

- Heat exchangers
- Clean room modules
- Electronic cabinet cooling

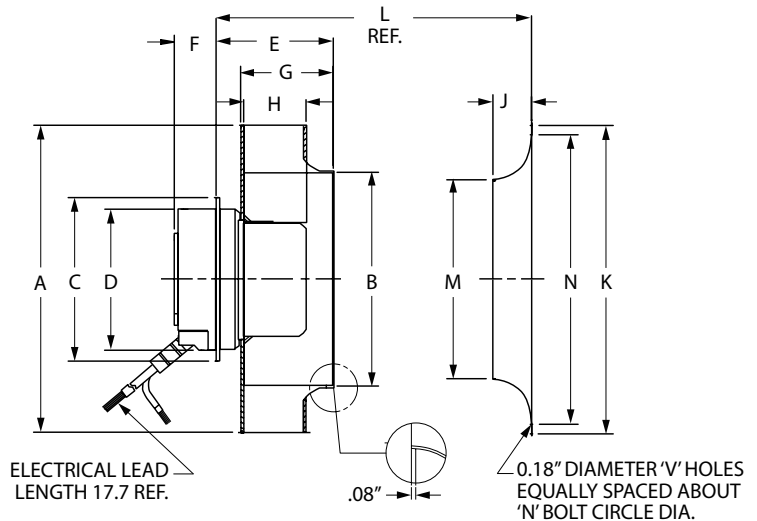
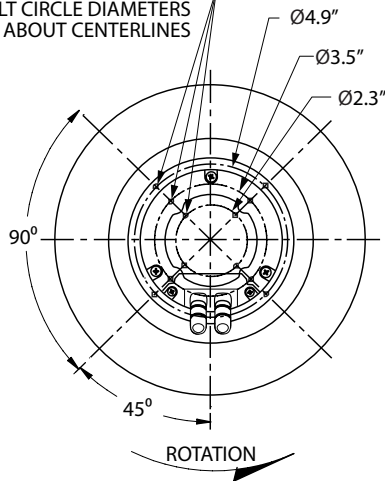
TYPICAL PERFORMANCE (VARIES BY MODEL & VOLTAGE)



| 208-277V - 1 PHASE |      | 50/60 Hz PERFORMANCE |       |      |     |
|--------------------|------|----------------------|-------|------|-----|
| PART NUMBER        | CFM  | RPM                  | WATTS | AMPS | dBA |
| EC190-2B34-1292    | 476  | 3980                 | 134   | 1.1  | 82  |
| EC220-2B42-1292    | 786  | 3600                 | 166   | 1.3  | 83  |
| EC225-2B65-1292    | 815  | 3000                 | 135   | 1.1  | 79  |
| EC250-2B61-1292    | 913  | 2800                 | 150   | 1.2  | 82  |
| EC280-2B78-1292    | 1314 | 2300                 | 175   | 1.3  | 72  |

FOR OTHER VOLTAGES, CONSULT FACTORY.  
ACTUAL PERFORMANCE MAY VARY BY APPLICATION.

M4 THREADED MOUNTING HOLES TYPICAL  
4 PLACES BOLT CIRCLE DIAMETERS  
STAGGERED ABOUT CENTERLINES



DIMENSIONS IN INCHES\*

| MODEL           | A    | B   | C   | D   | E   | F   | G   | H   | J   | K    | L   | M   | N    | V |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|---|
| EC190-2B34-1292 | 7.5  | 5.2 | 5.2 | 4.5 | 3.5 | 1.3 | 2.5 | 1.3 | 0.6 | 6.7  | 4.0 | 4.9 | 6.2  | 4 |
| EC220-2B42-1292 | 8.7  | 6.3 | 5.2 | 4.5 | 3.1 | 1.3 | 2.5 | 1.7 | 0.8 | 10.0 | 3.8 | 6.0 | 9.6  | 4 |
| EC225-2B65-1292 | 8.9  | 6.0 | 5.2 | 4.5 | 4.2 | 1.3 | 3.6 | 2.5 | 1.1 | 8.8  | 5.2 | 5.7 | 8.3  | 4 |
| EC250-2B61-1292 | 9.8  | 6.8 | 5.2 | 4.5 | 4.2 | 1.3 | 3.6 | 2.4 | 1.2 | 10.0 | 5.3 | 6.5 | 9.4  | 4 |
| EC280-2B78-1292 | 11.1 | 7.5 | 5.2 | 4.5 | 5.5 | 1.3 | 4.3 | 3.1 | 1.2 | 11.8 | 6.6 | 6.9 | 11.5 | 6 |

\*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

# EC HIGH EFFICIENCY MOTORIZED IMPELLERS

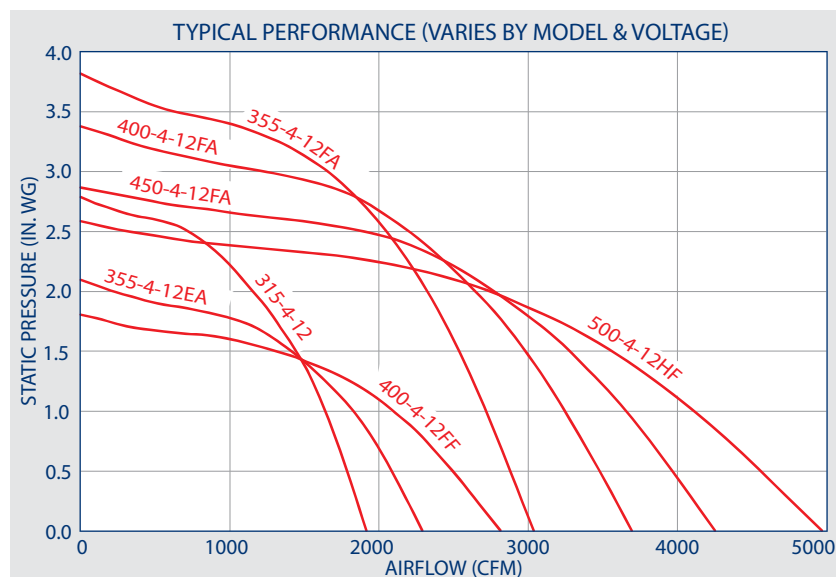
## TME CENTRIFUGAL IMPELLERS (EC) - 1 PHASE

### FEATURES & BENEFITS

- High efficiency: ErP qualified at 50 Hz
- EC external rotor motor
- Dual frequency motor (50 Hz & 60 Hz)
- Permissible ambient temperature range: -4 F to 104 F
- 1-10 VDC or PWM motor control
- Capacities to 5,000 cfm
- UL & CE approved

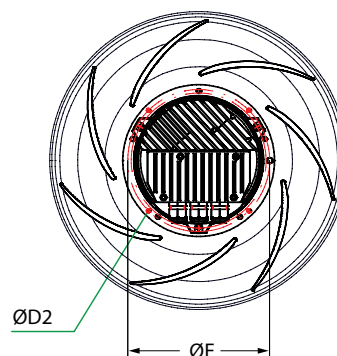
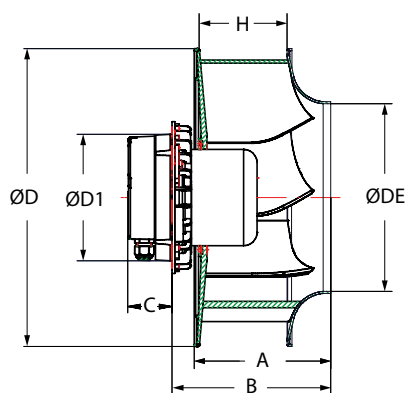
### APPLICATIONS

- Heat exchangers
- Clean room modules
- Electronic cabinet cooling



| 200-277V - 1 PHASE |      | 50/60 Hz PERFORMANCE |       |       |              |
|--------------------|------|----------------------|-------|-------|--------------|
| PART NUMBER        | CFM  | RPM                  | WATTS | CFM/W | AMPS @230VAC |
| TME315-4-12        | 1914 | 2200                 | 500   | 6.2   | 2.8          |
| TME355-4-12EA      | 2289 | 1650                 | 500   | 8.2   | 2.7          |
| TME355-4-12FA      | 3035 | 2250                 | 1120  | 4.0   | 5.0          |
| TME400-4-12FF      | 2812 | 1380                 | 500   | 9.4   | 2.8          |
| TME400-4-12FA      | 3692 | 1875                 | 1150  | 4.9   | 5.1          |
| TME450-4-12FA      | 4250 | 1550                 | 1150  | 6.0   | 5.1          |
| TME500-4-12HF      | 4966 | 1300                 | 1150  | 7.1   | 5.1          |

FOR OTHER VOLTAGES, CONSULT FACTORY.  
ACTUAL PERFORMANCE MAY VARY BY APPLICATION.



| MODEL         | DIMENSIONS IN INCHES* |      |     |      |     |           |      |     |     |
|---------------|-----------------------|------|-----|------|-----|-----------|------|-----|-----|
|               | A                     | B    | C   | D    | D1  | D2        | DE   | E   | H   |
| TME315-4-12   | 5.6                   | 6.6  | 1.5 | 13.3 | 5.9 | M6/4 X 90 | 8.3  | 6.5 | 3.5 |
| TME355-4-12EA | 6.8                   | 7.9  | 1.5 | 14.8 | 5.9 | M6/4 X 90 | 9.3  | 6.5 | 4.4 |
| TME355-4-12FA | 8.1                   | 8.1  | 2.3 | 14.8 | 7.1 | M6/4 X 90 | 9.3  | 8.0 | 4.4 |
| TME400-4-12FF | 7.6                   | 8.6  | 1.5 | 16.7 | 5.9 | M6/4 X 90 | 10.5 | 6.5 | 4.9 |
| TME400-4-12FA | 7.6                   | 8.9  | 2.3 | 16.7 | 7.1 | M6/4 X 90 | 10.5 | 8.0 | 4.9 |
| TME450-4-12FA | 8.4                   | 9.5  | 2.3 | 18.8 | 7.1 | M6/4 X 90 | 11.7 | 8.0 | 5.4 |
| TME500-4-12HF | 9.4                   | 10.4 | 2.3 | 21.0 | 7.1 | M6/4 X 90 | 13.2 | 8.0 | 6.1 |

\*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

# EC HIGH EFFICIENCY MOTORIZED IMPELLERS

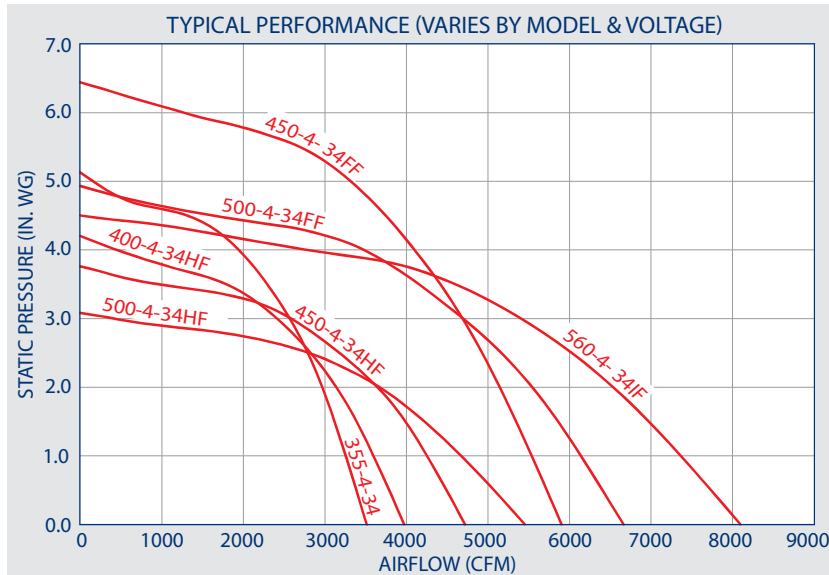
## TME CENTRIFUGAL IMPELLERS (EC) - 3 PHASE

### FEATURES & BENEFITS

- High efficiency: ErP qualified at 50 Hz
- EC external rotor motor
- 200-240V, three phase available
- Dual frequency motor (50 Hz & 60 Hz)
- Permissible ambient temperature range: -4 F to 104 F
- 1-10 VDC or PWM motor control
- Capacities to 8,095 cfm
- UL & CE approved

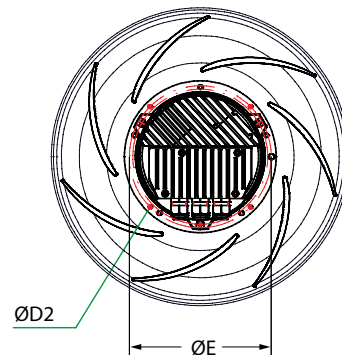
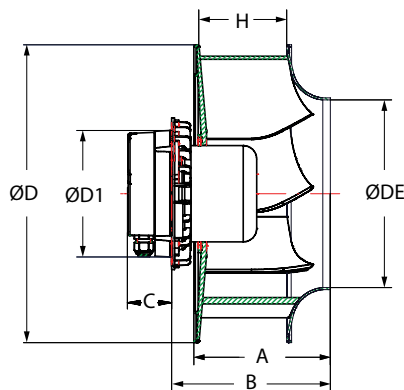
### APPLICATIONS

- Heat exchangers
- Clean room modules
- Electronic cabinet cooling



| 380-480V - 3 PHASE |      |      | 50/60 Hz PERFORMANCE |         |              |
|--------------------|------|------|----------------------|---------|--------------|
| PART NUMBER        | CFM  | RPM  | WATTS                | CFM / W | AMPS @400VAC |
| TME355-4-34        | 3512 | 2600 | 1700                 | 3.1     | 2.8          |
| TME400-4-34HF      | 3971 | 2100 | 1600                 | 3.6     | 2.5          |
| TME450-4-34HF      | 4717 | 1775 | 1650                 | 4.4     | 2.7          |
| TME450-4-34FF      | 5902 | 2300 | 3500                 | 2.4     | 5.1          |
| TME500-4-34HF      | 5452 | 1425 | 1500                 | 5.8     | 2.4          |
| TME500-4-34FF      | 6662 | 1800 | 2900                 | 3.4     | 4.4          |
| TME560-4-34IF      | 8095 | 1550 | 3260                 | 3.7     | 5.0          |

FOR OTHER VOLTAGES, CONSULT FACTORY.  
ACTUAL PERFORMANCE MAY VARY BY APPLICATION.



| MODEL         | DIMENSIONS IN INCHES* |      |     |      |     |            |      |     |     |
|---------------|-----------------------|------|-----|------|-----|------------|------|-----|-----|
|               | A                     | B    | C   | D    | D1  | D2         | DE   | E   | H   |
| TME355-4-34   | 6.8                   | 8.1  | 2.5 | 14.8 | 7.1 | M6/4 X 90  | 9.3  | 8.0 | 4.4 |
| TME400-4-34HF | 7.6                   | 8.9  | 2.5 | 16.7 | 7.1 | M6/4 X 90  | 10.5 | 8.0 | 4.9 |
| TME450-4-34HF | 8.4                   | 9.5  | 2.5 | 18.8 | 7.1 | M6/4 X 90  | 11.7 | 8.0 | 5.4 |
| TME450-4-34FF | 8.4                   | 10.0 | 2.8 | 18.8 | 9.3 | M10/8 X 45 | 11.7 | 9.9 | 5.4 |
| TME500-4-34HF | 9.4                   | 10.4 | 2.5 | 21.0 | 7.1 | M6/4 X 90  | 13.2 | 8.0 | 6.1 |
| TME500-4-34FF | 9.4                   | 10.9 | 2.8 | 21.0 | 9.3 | M10/8 X 45 | 13.2 | 9.9 | 6.1 |
| TME560-4-34IF | 10.6                  | 12.2 | 2.8 | 23.4 | 9.3 | M10/8 X 45 | 14.8 | 9.9 | 6.9 |

\*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

# EC HIGH EFFICIENCY MOTORIZED IMPELLERS

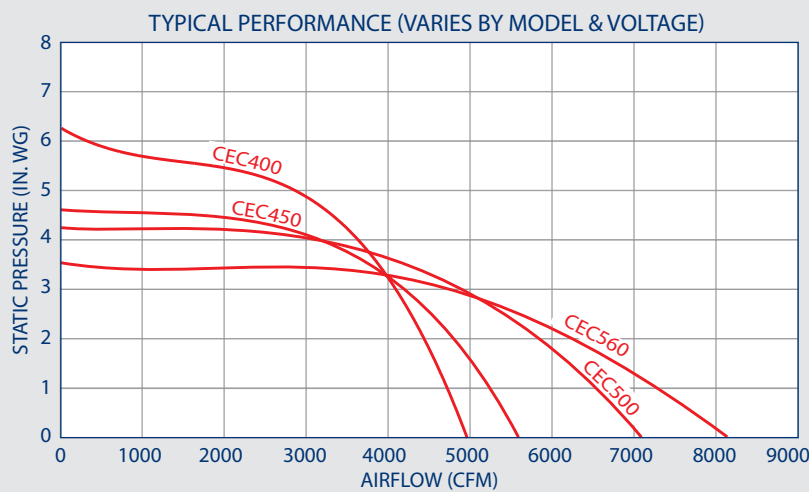
## CEC CENTRIFUGAL IMPELLERS (EC)

### FEATURES & BENEFITS

- EC (Electronically Commutated) external rotor motor
- 1-10VDC or PWM motor control
- Dual frequency motor (50 Hz & 60 Hz)
- Maximum speed available across entire voltage range in either 50 Hz or 60 Hz
- Integral EC electronics
- Permissible ambient temperature range: -4 F to 104 F
- Available housed or non-housed
- Capacities to 8,050 cfm
- UL & CE approved

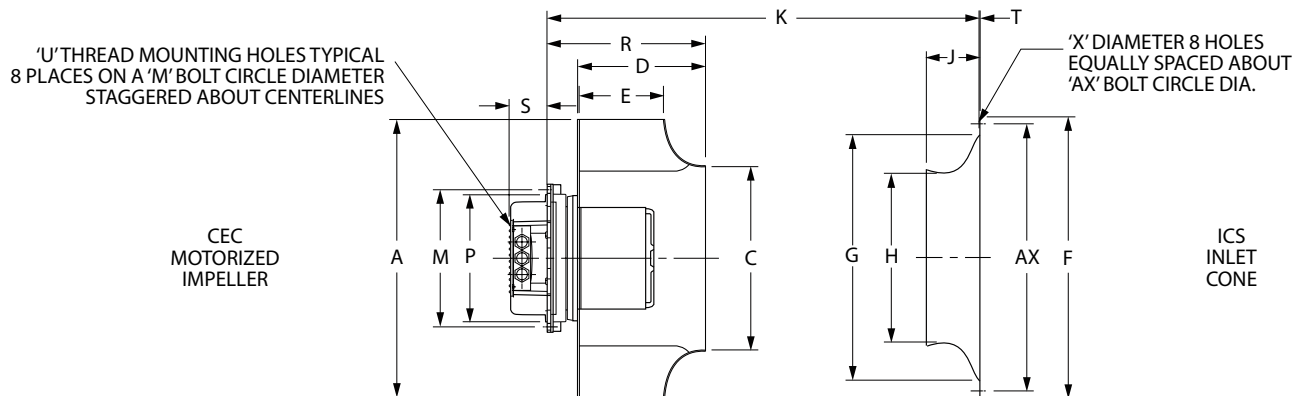
### APPLICATIONS

- Military HRAC
- Clean room modules
- Electronic cabinet cooling
- Air filtration
- Heat exchangers
- Pharmaceutical equipment



| 380V-480V - 3 PHASE |      | 50/60 Hz PERFORMANCE |       |      |  |
|---------------------|------|----------------------|-------|------|--|
| PART NUMBER         | CFM  | RPM                  | WATTS | AMPS |  |
| CEC400-4-34         | 4975 | 2690                 | 3580  | 5.6  |  |
| CEC450-4-34         | 5550 | 2050                 | 3100  | 4.9  |  |
| CEC500-4-34         | 7020 | 1750                 | 3500  | 5.4  |  |
| CEC560-4-34         | 8050 | 1400                 | 3100  | 4.8  |  |

FOR OTHER VOLTAGES, CONSULT FACTORY.  
ACTUAL PERFORMANCE MAY VARY BY APPLICATION.



DIMENSIONS SHOWN ARE FOR NON-HOUSED UNITS. CONSULT FACTORY FOR DIMENSIONS ON HOUSED UNITS.

| MODEL  | DIMENSIONS IN INCHES* |      |      |     |      |      |      |     |      |     |     |      |     |     |     |     |      | WT (lbs) |
|--------|-----------------------|------|------|-----|------|------|------|-----|------|-----|-----|------|-----|-----|-----|-----|------|----------|
|        | A                     | C    | D    | E   | F    | G    | H    | J   | K    | M   | P   | R    | S   | T   | U   | X   | AX   |          |
| CEC400 | 15.9                  | 10.5 | 7.2  | 4.8 | 16.6 | 14.0 | 9.8  | 3.0 | 12.2 | 9.9 | 9.3 | 9.5  | 2.8 | 0.1 | M10 | 0.4 | 15.6 | 39.6     |
| CEC450 | 17.9                  | 11.8 | 8.2  | 5.4 | 18.3 | 15.8 | 10.9 | 3.2 | 13.4 | 9.9 | 9.3 | 10.4 | 2.8 | 0.1 | M10 | 0.4 | 17.2 | 42.9     |
| CEC500 | 20.1                  | 13.3 | 9.2  | 6.1 | 20.3 | 17.7 | 12.2 | 3.8 | 14.9 | 9.9 | 9.3 | 11.4 | 2.8 | 0.1 | M10 | 0.5 | 19.3 | 55.0     |
| CEC560 | 22.4                  | 14.8 | 10.3 | 6.9 | 22.2 | 19.7 | 13.7 | 4.2 | 16.2 | 9.9 | 9.3 | 12.5 | 2.8 | 0.1 | M10 | 0.5 | 21.3 | 58.3     |

\*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

# EC HIGH EFFICIENCY MOTORIZED IMPELLERS

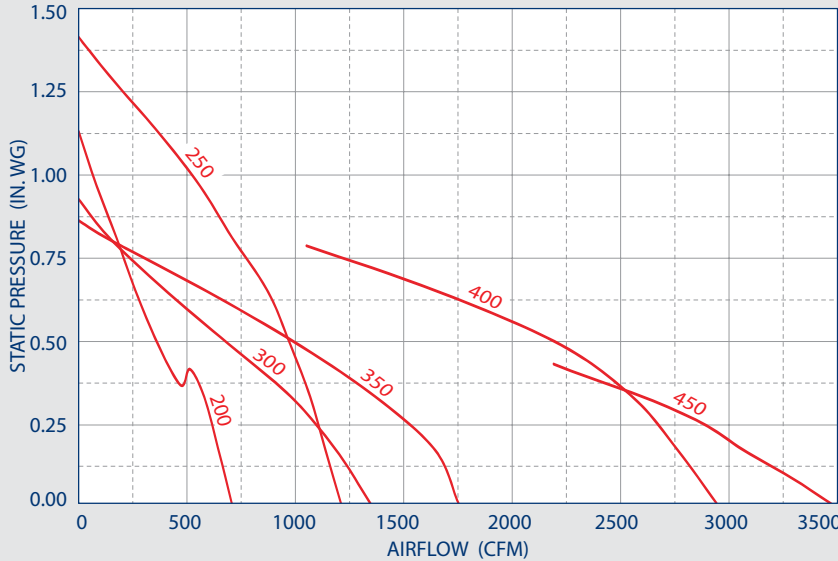
## DXG & DXP MOTORIZED AXIAL FANS (EC)

### FEATURES & BENEFITS

- EC (Electronically Commutated) external rotor motor
- 1-10 VDC or PWM motor control
- Excellent air and sound performance characteristics
- 100% speed controllable
- IP44 motor protection
- Input voltage: 208-277 V 50/60 Hz single phase
- Capacities to 3,469 cfm
- ErP and RoHS compliant



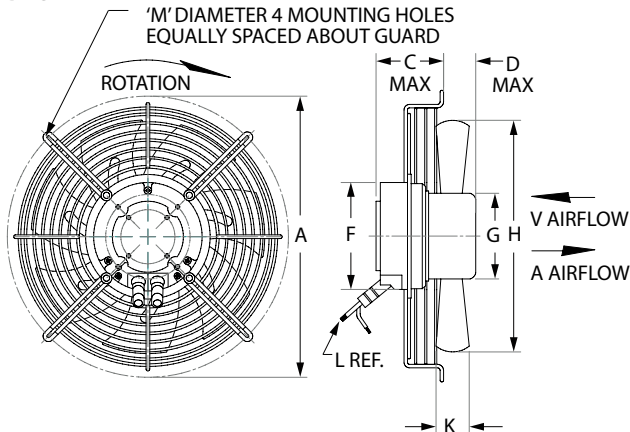
Typical Performance (Varies by Model & Voltage)



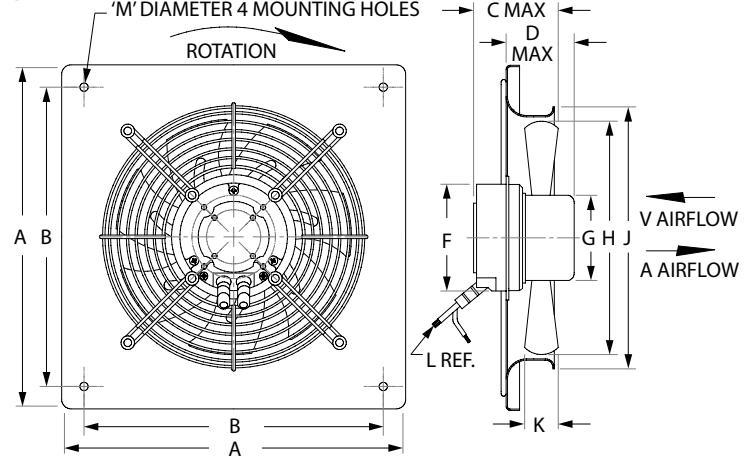
| 208-277V - 1 PHASE |      | 50/60 Hz PERFORMANCE |       |      |     |
|--------------------|------|----------------------|-------|------|-----|
| PART NUMBER        | CFM  | RPM                  | WATTS | AMPS | dBA |
| DXG200-2EC-12      | 709  | 2820                 | 88    | 0.7  | 60  |
| DXG250-2EC-12      | 1210 | 3050                 | 175   | 1.3  | 69  |
| DXG300-2EC-12      | 1346 | 1768                 | 95    | 0.7  | 64  |
| DXG350-2EC-12      | 1752 | 1732                 | 162   | 1.2  | 65  |
| DXG400-2EC-12      | 2943 | 1600                 | 345   | 1.6  | 69  |
| DXG450-2EC-12      | 3469 | 1310                 | 355   | 1.6  | 69  |
| DXP200-2EC-12      | 709  | 2820                 | 88    | 0.7  | 64  |
| DXP300-2EC-12      | 1346 | 1768                 | 95    | 0.7  | 69  |
| DXP350-2EC-12      | 1752 | 1732                 | 162   | 1.2  | 69  |
| DXP400-2EC-12      | 2943 | 1600                 | 345   | 1.6  | 74  |
| DXP450-2EC-12      | 3469 | 1310                 | 355   | 1.6  | 73  |

FOR OTHER VOLTAGES, CONSULT FACTORY.  
ACTUAL PERFORMANCE MAY VARY BY APPLICATION.

DXG



DXP



AIRFLOW DIRECTION TO BE INDICATED BY CUSTOMER.

|            | DIMENSIONS IN INCHES* |     |     |     |     |      |     |      |     |
|------------|-----------------------|-----|-----|-----|-----|------|-----|------|-----|
| MODEL      | A                     | C   | D   | F   | G   | H    | K   | L    | M   |
| DXG200-2EC | 10.2                  | 2.9 | 1.3 | 4.5 | 3.6 | 7.9  | 1.4 | 17.7 | 0.3 |
| DXG250-2EC | 11.8                  | 2.8 | 1.3 | 4.5 | 3.6 | 9.8  | 1.4 | 17.7 | 0.3 |
| DXG300-2EC | 14.2                  | 3.3 | 1.5 | 4.5 | 3.6 | 11.8 | 2.6 | 17.7 | 0.2 |
| DXG350-2EC | 16.6                  | 3.5 | 1.6 | 4.5 | 3.6 | 13.8 | 3.3 | 17.7 | 0.3 |
| DXG400-2EC | 18.5                  | 3.8 | 1.9 | 5.9 | 4.0 | 15.7 | 2.8 | 39.4 | 0.4 |
| DXG450-2EC | 20.6                  | 3.8 | 2.1 | 5.9 | 4.0 | 17.7 | 3.7 | 39.4 | 0.4 |

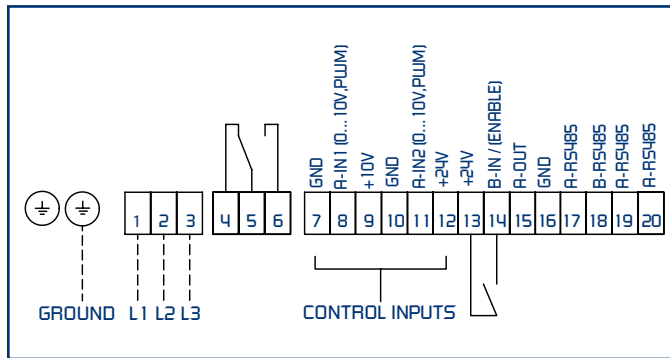
\*DO NOT USE FOR CONSTRUCTION

| MODEL      | DIMENSIONS IN INCHES* |      |     |     |     |     |      |      |     |      |     |
|------------|-----------------------|------|-----|-----|-----|-----|------|------|-----|------|-----|
|            | A                     | B    | C   | D   | F   | G   | H    | J    | K   | L    | M   |
| DXP200-2EC | 12.2                  | 10.2 | 4.1 | 2.0 | 4.5 | 3.6 | 7.9  | 9.1  | 1.4 | 17.7 | 0.3 |
| DXP300-2EC | 16.9                  | 15.0 | 3.8 | 3.4 | 4.5 | 3.6 | 11.8 | 13.2 | 2.6 | 17.7 | 0.4 |
| DXP350-2EC | 19.1                  | 17.1 | 5.0 | 3.3 | 4.5 | 3.6 | 13.8 | 15.0 | 3.3 | 17.7 | 0.4 |
| DXP400-2EC | 21.3                  | 19.3 | 6.0 | 3.8 | 5.9 | 4.0 | 15.7 | 16.9 | 2.8 | 39.4 | 0.4 |
| DXP450-2EC | 22.6                  | 20.5 | 6.1 | 3.9 | 5.9 | 4.0 | 17.7 | 18.9 | 3.7 | 39.4 | 0.4 |

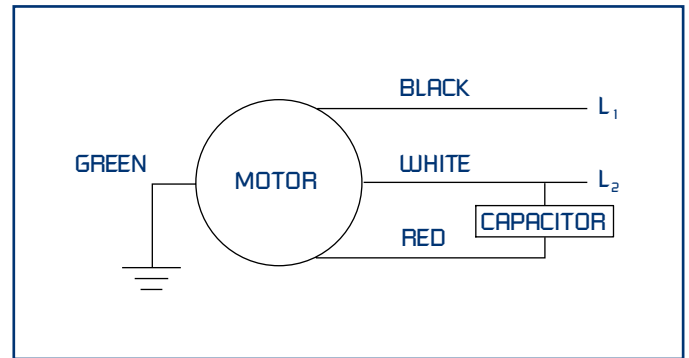
CONSULT FACTORY FOR CERTIFIED PRINTS

## WIRING DIAGRAMS

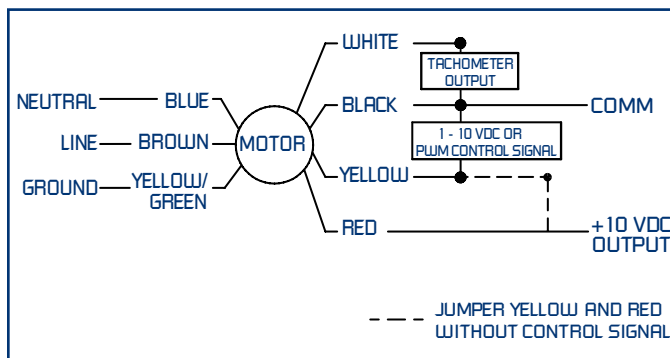
### TME, CEC (3 PHASE)



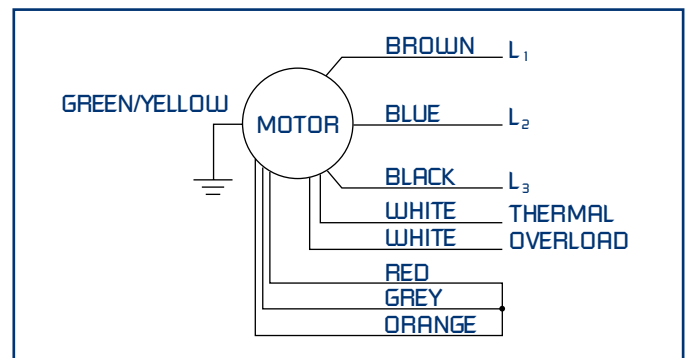
### XR



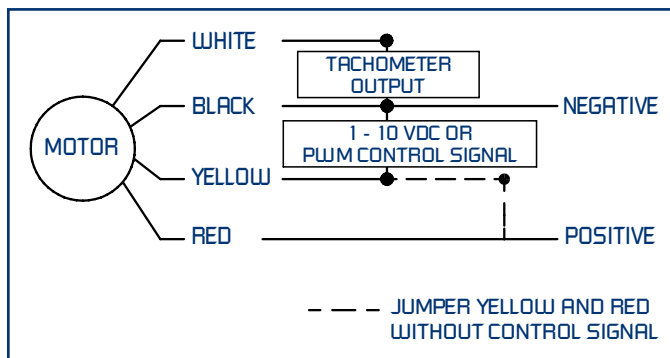
### EC, DXG-EC, DXP-EC



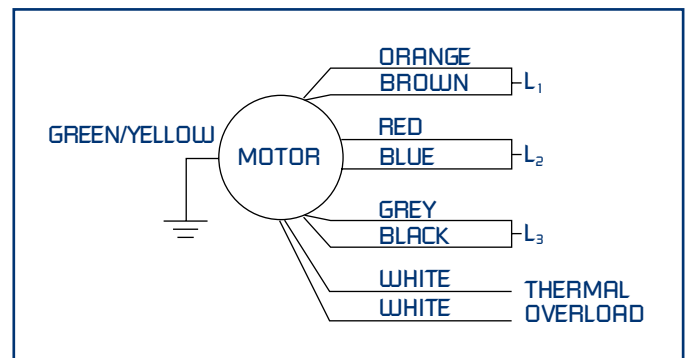
### TMA, TMK, RCM (460V, 3 PHASE)



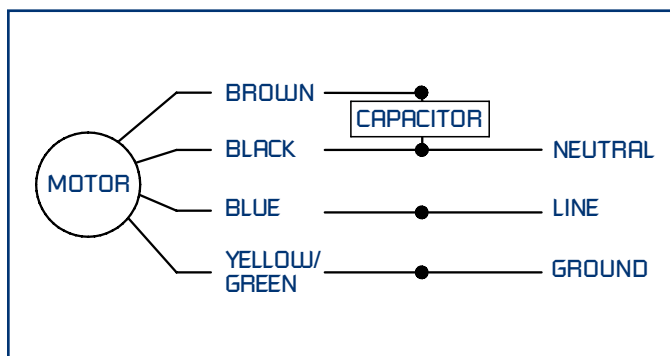
### DC, DXG-DC, DXP-DC



### TMA, TMK, RCM (230V, 3 PHASE)



### CMI, DXG-AC, DXP-AC



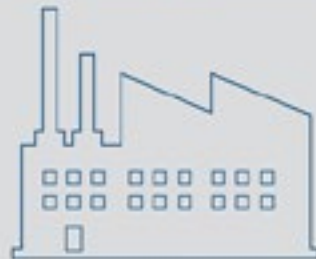
WIRING DIAGRAMS ARE TYPICAL, CONSULT FACTORY FOR ACTUAL PRODUCT WIRING DIAGRAMS.



## ***OEM Solutions & Custom Fans***



## ***Industrial Fans & Blowers***



## ***Commercial Fans & Dampers***



## ***Residential Fans & Air Purifiers***



## ***OEM Solutions & Custom Fans***

Continental Fan Manufacturing  
Dayton, OH

Continental Fan Canada  
Mississauga, ON

[www.continentalfan.com](http://www.continentalfan.com)  
+1-800-779-4021

Distributed by:

