ELECTRONICALLY COMMUTATED MOTORS

Meet your energy savings requirements with the new, electronically commutated motors that maintain 85% efficiency even as the motor is slowed down.

The brush-free, DC electronically commutated motors can be dialed down by 80%. An EC Motor converts AC power to DC for increased efficiencies and cooler temperatures at lower speeds. These motors are available in a direct drive configuration on Acme’s upblast, downblast, cabinet exhausters, and utility sets.

Acme Engineering & Manufacturing Corporation
P.O. Box 978 • Muskogee, OK 74402 • (918) 682-7791
Fax (918) 682-0134 • www.acmefan.com
Why use Acme’s EC Motor?
1. Energy efficiency is greater when using a DC motor than an AC motor. An AC motor with a speed controller typically runs at 65% at its peak efficiency but can run as low as 12-20% efficiency. An EC Motor running on DC can maintain up to 85% efficiency even when the motor is slowed down.

2. EC Motors have a greater range of speed control than AC motors as they can be slowed down to as low as 20% of their full speed. PSC motors with a speed controller can be reduced down only as low as 50% of their full speed.

3. Bearing life is longer on EC Motors because they are synchronous at all times; which ensures higher efficiencies and lower temperature rises that will increase the life of the motor and bearings.

Speed adjustment options:
- Potentiometer mounted/wired to motor, (excludes 1/4hp tri-voltage motor*).
- Motor provided with control wire inputs that accept a 0-10 VDC signal.
- 0-10 VDC control with wall plate is available. This control allows the fan speed to be manually adjusted. Wall plate control comes with a 120 or 230 volt transformer that is mounted and wired to the fan. Single and 2 speed is available.
- Up to 6 fans can be operated from one remote control. Only one transformer should be used.

Available Motors

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<th>Voltage</th>
<th>Phase</th>
<th>HZ</th>
<th>RPM</th>
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<td>1160</td>
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Contact your local Acme Rep for more information.

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