ELECTRONICALLY COMMUTATED MOTORS

(Data below is extracted from published documents believed to be reliable)

EC Technology Described:

EC / ECM is an acronym for "Electronically Commutated/Motors" which combines AC and DC Voltages (the motor is powered by DC Voltage from normal AC Power such as 115V/230V Supply. EC simplifies the voltage transition from AC to DC without the use of bulky and inefficient transformers. Features of the External Rotor Motor are retained including space saving compact design with easy speed control and improved efficiency. The transition from AC to DC is integral to the motor.

BENEFITS:

- **Energy Savings and Better Efficiency than AC Driven.**
- **100% Speed Controllable (Quiet) with 0 – 10 Volt DC Signal.**
- **Lower Motor Temperature for Longer life than AC Motors.**
- **Simplicity with Integral Electronics to Convert the AC Current to DC.**
- **High Performance with One Motor to Operate as a 6 pole, 4 Pole and 2 Pole Motor.**
- **Easy Connection When Compared to a Frequency Controller.**

EC MOTORS PROVIDE MAJOR BENEFITS IN FAN-COIL UNITS:

- **High Efficiency of 85%.**
- **Low Rise in Air Temperature on Airstream.**
- **Efficient Speed Control.**
- **Longer Motor Life Resulting from Lower Running Temperatures.**
- **Longer Bearing Life with Soft-Start Feature.**