

Introducing Eco-telligent® 2

IEC is pleased to announce our version 2 of the Eco-telligent® motor series. Eco-telligent® 2 (or Eco 2) is a 42 frame, constant torque, fan coil motor developed by IEC to provide the perfect balance of performance and energy savings. Eco 2 retains the simplified commissioning process provided by the original Eco-telligent® motor, but with a lower full load ampacity and higher turn-down.

Why Choose Eco-telligent®

Eco 2 is optimized for fan coils, while competing products are simply transplanted VAV technology. Fan coils and VAV

boxes have different functions and design requirements. Constant airflow makes sense in VAV boxes, but when applied to terminal fan coils it reduces turndown and lowers efficiency.

Constant torque provides the lowest wattage per CFM by maximizing blower wheel mechanical efficiency.

Constant airflow ECM motors take a "One Size Fits All" design approach to accommodate large changes in airflow and static. Eco 2 fan coils are designed to maximize the wheel's mechanical efficiency at the design conditions.

Lower motor horsepower can decrease the required electrical service and improve turndown. The Eco-telligent® 1/7 HP motor has a full load ampacity (FLA) of 2.5, which is half that of many competing motors. The lower power rating also provides for improved controllability in the smallest units by matching the performance range of the motor and the wheel.

42 frame size and integral control module streamline unit design and improve serviceability. Some competing motors require a separate control module which is nearly as large as the motor itself. The Eco-telligent® 2 is a drop-in replacement for the PSC motor.

Eco 2 is easily field adjustable with a screw driver and voltmeter. Some competing designs require a complicated configuration sequence.

Eco 2 is manufactured in an ISO 9001 facility in North America.

Eco-telligent®



Eco-telligent® 2 Control Options (120V, 208V, 230V, 277V Fan Coils)

Interface Options	3 Speed	Proportional Speed	5 Speed
Speed Control	3 discrete speeds (H, M, L)	Proportional Airflow	5 discrete speeds
Thermostat Output:	24V – Up to 3 discrete speeds	0-10 VDC or 4-20mA	24V - Up to 4 discrete speeds (5th is default speed)
Field Airflow Adjustment	Each speed adjustable by potentiometer to any value in the motor's range	Motor dynamically set by controller to any speed in its operating range	Each speed adjustable by potentiometer to any value in the motor's range



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