

**ENERGY  
SAVINGS OF  
80%**

## ENERMOTEUR 3.3 & ENERCONTROLLER

### TECHNOLOGY

- Patent protected
- Dual rotation with the use of a switch located on the side of the ECM
- Automatically adjust to service voltage 120v or 208v/230v
- Deployed operationally with outstanding energy savings results

### JUST HOW EFFICIENT IS IT?

- **EXEMPLE:** For a walk-in freezer (3 Evaporators and 1 Controller) and a walk-in fridge (2 Evaporators and 1 Controller):

**BEFORE:** Annual energy to operate the 5 motors: 6,745 kWh

**AFTER:** Annual energy to operate 5 motors & 2 controllers: 1,996 kWh

**Increased Compressor Efficiency Savings:** 2,875 kWh

**Total Savings:** 7,624 kWh/Year

### GREAT INVESTMENT

- Short ROI
- Qualifies for incentives in most electric utility jurisdictions

### ENERMOTOR PRODUCTS

- One motor replaces most 3.3" evaporator motors
- EnerMotors are also available for other applications such as reach-in and larger EC motors up to 2.5 HP

[effectsg.com](http://effectsg.com)



### ENERMOTOR 3.3: SPECIFICATIONS & PHYSICAL CHARACTERISTICS

- Horse Power: 1/15th HP
- RPM: 1550 - 750
- Watts: 40 - 9
- Variable Speed Input: 10 vdc - 0 vdc
- Rotation: CCWLE & CWLE
- Hertz: 60/50
- Operating Temperature: -30F/-34C to 75F/23C
- Weight: 2.9 lbs./1.32 kg
- Housing Diameter: 3.3 inches/83.82 cm
- Standard Mounting Stand-offs
- Shaft Length: 2.6 inches/6.604 cm
- Motor Power leads: 24 inches/60.96 cm
- Variable Speed Leads: 24 inches/60.96 cm
- Overall Dimensions
- Length: 6.8 inches/17.272 cm
- Width: 3.7 inches/9.398 cm

The EnerMotor uses state-of-the-art Electronically Commutated Motor (ECM) technology to optimize evaporator operations in refrigerated coils operating in walk-in freezers and fridges. The ECM is a synchronous permanent magnet motor which eliminates an important part of motor losses and provides high efficiency operations, independent of its rotation speed.

The EnerMotor is offered with the EnerController to optimize motor efficiency, ventilation speed control and optimisation of temperature for freezing or refrigeration. The EnerController also controls the speed of the fan when the refrigerant is not flowing through the coil of the evaporator. The EnerController design helps simplify content management in cold rooms used for freezing or refrigeration; thereby minimizing the risk of food loss. For example, when one realizes a sudden temperature drop in a cold room, simply remove the cover of the EnerController to engage a high cooling mode that ensures there will be no food loss.

### WHY EC MOTORS?

- Use less than 1/3 to 1/2 of the electricity utilised by the traditional induction motors operated in the ventilation and refrigeration industries, which means lower operating costs and better ROI.
- Run "cool" and dramatically reduce the amount of waste heat at the evaporator motor.
- Reduce operations of the compressor and deliver additional savings.
- Allow optimisation and integration of the motor, fan and controller through software which include features like data communications, constant volume control and variable speed.
- Are quieter than traditional inefficient motors, have longer design life and require less maintenance.

### FOR MORE INFORMATION, CONTACT:

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