

## NRM ME142 Series Evaporator Fan Replacement Motors

NRM's evaporator fan replacement motor, the ME142 series, is a high-efficient commercial refrigeration motor manufactured by Regal Beloit. The ME142 series offers up to 60% greater efficiency than a shaded-pole motor and up to 35% greater efficiency than a PSC motor.

Designed specifically for evaporator-fan use in walk-in coolers and freezers, the ME142 series comes in 1/5, 1/3, 1/2, and 3/4 HP and it's a form-fitting, drop-in replacement for typical belly mount and base mount applications. The ME142 series offers many features that ensure reliability, both within the motor and in the refrigeration system as a whole. For example, the motor's ability to contribute less heat into the refrigeration cycle means better long-term equipment reliability because there is less stress on all of the system components. The ME142 series is single phase and available in two voltages, 208–230V and 115–120V and is UL approved.



### NRM Model Numbers

**ME1425-1CWSE5**

1/5 HP, 115-120V,  
1075 RPM

**ME1425-2CWSE5**

1/5 HP, 208-230V,  
1075 RPM

**ME1423-1CWSE5**

1/3 HP, 115-120V,  
1075 RPM

**ME1423-2CWSE5**

1/3 HP, 208-230V,  
1075 RPM

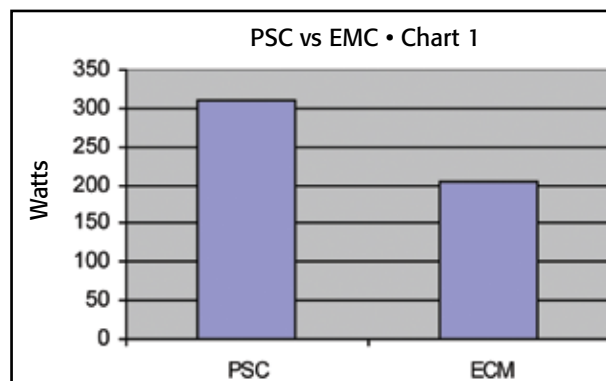
**ME1422-2CWSE5**

1/2 HP, 208-230V,  
1075 RPM

**ME1424-2CWSE5**

3/4 HP, 208-230V,  
1075 RPM

Available in base  
mount or belly mount  
configurations



The ECM's power consumption is significantly lower than comparable PSC motors that are typically installed in evaporator coils that use these larger sized motors. Chart 1 compares the performance of a 1/3HP PSC motor replaced by an ME142 series 1/3HP motor in an evaporator coil of a walk-in cooler. As Chart 1 shows, the ECM's uses 34% less energy than a PSC motor.

The overall savings from the ECM are further amplified since there is less heat from the motor introduced into the refrigerated space. In the application from Chart 1, each ECM saved 1,344 kWh per year more than a PSC motor. As a result, for an evaporator coil with 3 motors, the total savings would be 4,032 kWh per year or \$565 per year assuming a utility charge of 14 cents per kWh.

