



Introducing the Highest Efficiency Electric Fan Motors:

Q-Sync® 6-12W Permanent Magnet Synchronous Motors (50 Hz)

Ground-breaking technology that returns money to your bottom line.

- Q-Sync® PMSM technology saves up to **\$105 per year** per motor in energy costs
- Realize **immediate savings** when you replace competitor motors with Q-Sync® motors
- Gain increased reliability and peace of mind with **2X the warranty** and up to **4X the expected life of other motors**

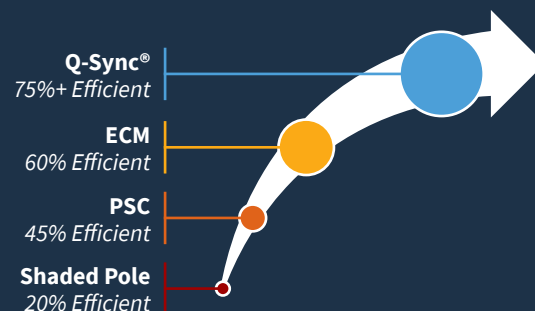
Save More

Q-Sync® motors reduce your energy cost.

Annual Energy Cost Savings per Motor from using Q-Sync® PMSM Technology (Savings vary with local rates)

Energy Costs	Q-Sync® vs. Shaded Pole	Q-Sync® vs. PSC	Q-Sync® vs. ECM
\$0.20 / kWh	\$105.67	\$33.62	\$9.61
\$0.15 / kWh	\$79.25	\$25.22	\$7.20
\$0.10 / kWh	\$52.84	\$16.81	\$4.80

Comparison of 12W Motor Efficiencies



Q-Sync® Advantages

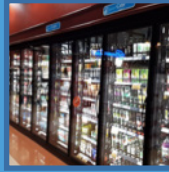
- ✓ Water resistant housing for carefree cleaning (IP65 Certified)
- ✓ Constant airflow and constant power maintain desired set temperatures
- ✓ Less heat generated reduces the load on the refrigeration system
- ✓ Quieter motors enhance customer experience



Q-Sync® Refrigeration Fan Motor Applications

6-12W fan motors for:

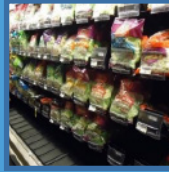
- Reach-In Coolers
- Display Cases
- Refrigerated Prep Tables
- Upright and Under Counter Refrigeration
- Small Walk-in Coolers or Freezers
- Ice Machines, Vending Machines, and Other Refrigeration Applications



Reach-In-Coolers



Refrigerated Prep Tables



Display Cases



Under Counter Refrigeration

Q-Sync® Product Features

More Energy Efficient

- ✓ 70-80% fewer watts consumed compared to shaded-pole motors
- ✓ 20-40% fewer watts consumed compared to ECM motors
- ✓ Up to 50% less energy at the meter and 80% less at the grid
- ✓ Less heat generated by the motor, reducing thermal stress on the refrigeration system

Longer Life and Higher Reliability

- ✓ Innovative and patented design results in 99% less duty cycle on electronics and increased surge protection
- ✓ Engineered to eliminate a start-stop capacitor which is a common failure point in other motors
- ✓ Lower in-rush current and better surge protection (up to 6000V)
- ✓ IP65 Certified (water and dust resistant)
- ✓ Built with extended life bearings
- ✓ Design life is 2-3X most ECMs and 4-5X shaded pole motors

Easier to Install

- ✓ Drop-in replacement - universal motor and basket mounts make installation up to 4X faster!
- ✓ A cord with straight Lyall plug is standard



Q-Sync® is recognized by the US Department of Energy as a High Impact Technology For Commercial Refrigeration



How Q-Sync® Patented PMSM Technology Works

QM Power's innovative design is the biggest breakthrough in motor technology in more than 50 years. Q-Sync® circuitry **eliminates the need for electronic commutation to keep the motor spinning.**

By operating the motor at the same frequency as the AC power line and **eliminating the AC to DC power conversions** from its circuit (no AC-to-DC rectifier, no DC link, and no DC-to-AC inverter), **Q-Sync® delivers unparalleled energy savings.**