

# Common Sense Solutions for Cold Storage Efficiency

## TECH DATA: ARKTIC 59 Electronically Commutated (EC) 2-sp Motors



### Quantifiable Energy Savings

Refrigeration Technologies' products are 100% tested proven and offer quantifiable savings.

**Bottom Line:** Less energy consumed, more money saved!!

### Five-Year Warranty

All products come with a standard Five-year Warranty!

### Complimentary

#### No-Obligation Energy Audit

Our audits will tell you what you are currently paying versus what you could be saving.

### Energy Rebates

Refrigeration Technologies' will research, process and file energy rebate applications where applicable on your behalf to provide maximum dollar savings!

### DID YOU KNOW?

**Refrigeration Technologies' provides superior quality service on all of our products and at times in-house installation Retro-fit Teams!**



Morrill Arctic 59 2-sp EC Motors are used in the evaporator fans of walk-in coolers and freezers. They are 70-80% more energy efficient than the traditional shaded-pole motors that are used in most commercial refrigeration applications. Arctic 59 2-sp EC Motors have a long life and are maintenance free, and offer a quick ROI. Great for retrofit applications!

### Electrical Summary

- Voltage: 115 (90-132) or 208-230 (180-264) V Single Phase
- Output: Peak output 74.6 watts - 1/10HP rated at 1550 RPM
- Efficiency: ~68% peak
- Speed Range: 800–1550 RPM
- Speeds: 1 or 2 (speed regulated +/- 6%)
- Rotation: CW, CCW, or CW/CCW (determined from the lead end of the motor)
- Programmable: The ECM Toolbox can be used to change the number of speeds, RPM, and rotation direction

### Mechanical Summary

- Type: 3.3" electronically commutated
- Shaft: Single, or Double shafts. 5/16" single shaft with single flat is standard. 8mm and double flat shafts available
- Enclosure: Totally enclosed - air over required
- Bearing: Ball bearing with low temperature grease
- Mounting: Standard 0.5" - #10-32 studs on shaft end (2.8" bolt circle) Optional 0.5" - #10-32 studs on the opposite shaft end (2.8" bolt circle).
- Operating Position: All angle
- Control: Integrated to motor or remotely mounted
- Leads: Many customized lead options are available.

### Environmental Summary

- Storage Temps: -40 to 80° C ambient
- Operating Temps: -40 to 55° C ambient
- Design Life: 10 years, 83,720 hours on time for typical evaporator fan application

*All motors can be sold with mounting brackets and can be programmed at your facility to optimize airflow and system efficiency. We are pledged to ensure your success. Expect only the best service, quality and value when you specify Morrill Motors and Refrigeration Technologies LLC.*

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