

# ECM Head Cooling Fan Kit

Saving energy is as simple as an ECM head cooling fan kit



## A simple alternative for aftermarket replacement of shaded pole motors

Installing an ECM head cooling fan motor in place of a shaded pole motor on any compressor in a rack system or single compressor condensing units can save money and provide a quick return on investment.

### Benefits

- Drop-in replacement for shaded pole motor
- ROI within 2 years
- Up to 43% savings in energy cost
- For use with Copeland™ 2D, 3D, 4D and 6D compressors

### Kit

Description	Part Number
ECM motor kit	998-0550-06

Motor Description	Volts	Amps	Watts	RPM	Velocity Pressure	Dry Bulb	Wet Bulb	Inch HG	Air Flow
ECM	210	0.49	58	1651	0.74	73.3	63.7	29.74	564
Shaded Pole	211	0.76	96	1634	0.70	70.4	62.7	29.80	546
ECM	230	0.47	61	1653	0.73	73.2	63.7	29.74	560
Shaded Pole	230	0.82	109	1665	0.74	69.8	62.7	29.81	561

## Reduce Energy Consumption and Save Money!

Refrigeration energy usage can be 60% in a typical grocery store. In the next decade energy cost is expected to increase 21%. 77% of the total energy consumption of a typical reach-in refrigerator or freezer can be attributed to the condensing unit. Customers today have a variety of ways to save energy.

**Scroll compression** can be 45% more efficient than reciprocating compression technology when comparing capacities. There are 70 percent fewer moving parts which means less friction to overcome during compressor operation. Scroll compressors have the ability to start under system loading. Copeland Scroll™ compressors are instrumental in meeting new government energy mandates worldwide.

**Low condensing** offers energy savings by cycling or varying condensing fan motor speed to operate 10-20°F above ambient temperature. Operating at lower condensing temperatures and compression ratios reduces the amount of energy required to operate the system. Using low condensing removes the need to use hot gas bypass. Some of the components to take advantage of low condensing are listed below.



Variable fan speed control



Compressor modulation



Electronic expansion valve

**CoreSense™ technology and other electronics** unlock advanced diagnostics, protection and communication in Copeland compressors. With in-depth system information, technicians can make faster, more accurate decisions resulting in improved compressor performance and reliability. This means contractors, homeowners, and businesses alike save valuable time and money.

*CoreSense protection*

*CoreSense diagnostics*

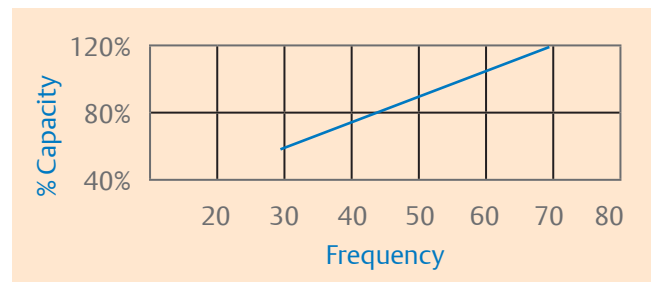
*E2 facility control*

*XC643 digital controller*

*Capacity control module*



**Variable frequency drives** for semi-hermetic and scroll compressors offer energy savings by increasing and decreasing the compressor motor speed to match system loads at any given time. Reduces the number of compressors required for a rack system. Reduced compressor start-ups. Lower noise levels at lower speeds.



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