

# Energy savings with **GE ECM** variable speed motors

Because of the rising cost of electricity, more homeowners are looking for ways to save money on their power bills. Every year Americans spend \$150 billion on energy to operate their furnaces, heat pumps and air conditioners. Some of this cost comes from the use of low-efficiency, air-moving motors. Several years ago, General Electric introduced a high-efficiency, advanced- technology solution, the GE ECM variable-speed motor.

On average, the GE ECM motor consumes a third of the energy used by a standard motor. Heating and air conditioning (HVAC) systems with the GE ECM variable-speed motor provide homeowners with long term energy savings, greater comfort and better indoor air quality.

See the chart below for an energy savings estimate for homes taking advantage of variable speed HVAC systems with GE ECM motor technology.

Regions	States	Cents per kwh	Heating Energy Savings	Cooling Energy Savings	Constant Fan Energy Savings	Total Savings
New England	CT, ME, MA, NH, RI, VT	16.27	\$189.14	\$59.17	\$557.61	\$805.92
Middle Atlantic	NJ, NY, PA	12.65	\$132.37	\$58.26	\$437.23	\$627.86
East North Central	IL, IN, MI, OH, WI	8.95	\$93.64	\$47.10	\$304.02	\$444.76
West North Central	IA, KS, MN, MO, NE, ND, SD	7.7	\$80.57	\$40.52	\$261.56	\$346.65
South Atlantic	DE, DC, FL, GA, MD, NC, SC, VA, WV	9.39	\$54.59	\$56.85	\$330.14	\$441.58
East South Central	AL, KY, MS, TN	7.9	\$45.93	\$44.85	\$282.45	\$373.23
West South Central	AR, LA, OK, TX	10.9	\$63.36	\$78.37	\$363.77	\$505.50
Mountain	ASZ, CO, ID, MT, NV, NM, UT, WY	8.65	\$80.45	\$50.82	\$296.45	\$427.72
Pacific	CA, OR, WA	10.72	\$121.88	\$31.48	\$375.36	\$528.72
Pacific South	AK, HI	19.27	\$171.86	\$109.38	\$624.54	\$905.78
U.S. Average		9.99	\$103.38	\$52.60	\$383.31	\$540.77

The ECM energy savings estimates are based on the assumptions for estimates in the ARI directory and a properly sized 5 ton, 60,000 btu heating and cooling system.



**GE ECM**

By REGAL-BELOIT

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(260) 416-5400 FAX (260) 416-5460 EMAIL

[ecm.marketing@gerbc.com](mailto:ecm.marketing@gerbc.com) [www.theDealerToolbox.com](http://www.theDealerToolbox.com)