

ECM Replacement Payback



The blower motor is the heart of your furnace or air handler, forcing air through your ductwork to warm or cool your home. Traditionally, furnaces and air handlers have relied on PSC (permanent split capacitor) motors which run on one speed—high. An ECM (electronically commutated motor) is a more efficient motor with all the speed and torque controls built in. This allows the motor to adjust its speed to ensure the optimal air flow at all times while using less electricity. Replacing a standard PSC motor with an ECM can save an estimated \$728 in operating costs over 10 years.

ECM Fan Motor Replacement Options*

Standard PSC		ECM - <i>Standard Rebate</i>		ECM - <i>\$50 Bonus</i>	
Estimated cost including installation	\$400.00	Estimated cost including installation	\$600.00	Estimated cost including installation	\$600.00
Rebate	- \$0.00	Rebate (Standard)	- \$100.00	Rebate (plus \$50 Bonus)	- \$150.00
Annual kWh savings	- \$0.00	Annual kWh savings	- \$72.80	Annual kWh savings	- \$72.80
Cost of PSC - first year energy savings and rebate	= \$400.00	Cost of ECM - first year energy savings and rebate	= \$427.20	Cost of ECM - first year energy savings and rebate	= \$377.20
		Payback estimated to be less than 2 years		Payback estimated to be less than 1 year	

*If your furnace is 10 years old or less, an ECM replacement is likely to be a good option. Minnesota Power recommends talking with a participating contractor to determine if a replacement ECM is the “right” application for your existing furnace or heat pump and to determine the costs and payback vs. standard PSC motor options. If you have a service contract on your heating system, we recommend consulting your service provider before making any changes. Minnesota Power, by providing this rebate, does not warrant the equipment or the work of the contractor and is not responsible for any personal injury or damage caused by the equipment. Minnesota Power reserves the right to withdraw the offer without notice. Rebate subject to homeowner working with a participating contractor and to the contractor meeting performance standards. The contractor will file the rebate for you. Limit one ECM rebate per home. For program questions, call 1-800-677-8423 (opt 2). Bonus Special offered through December 31, 2013. Estimated average savings of 800 kWh annually (800 kWh x \$0.091) for the purpose of above calculations. Actual savings will vary based on system and operation. Visit www.mnpower.com/replacementECM for more details. Some restrictions apply.