

# ENERGYwise

## FOR YOUR HOME



## ECM Rebate – Keep your home comfortable with less money

Did you know that upgrading your furnace motor can help you save on your electric bill? While your furnace might use fuel to generate heat, it uses electricity to power the fans and motors that distribute air throughout your home during both the heating and cooling seasons. Agralite Electric Cooperative wants to help you save money by helping you use less electricity to keep your home comfortable.

### How do you benefit?

Electrically commutated motors (ECMs) help save energy and money by running at the best speed opposed to traditional motors that always run at top speed. Because your furnace fan distributes air in your home during both the heating and cooling season, an ECM helps save money throughout the year. Inefficient fan motors are common in existing HVAC systems. These motors can cost you as much as 60 percent more in unnecessary and avoidable energy costs (motor energy costs, not fuel costs).

### What is an electronically commutated Motor (ECM)?

ECM is a brushless DC motor. The motor adjust its speed to ensure the optimal airflow at all times. In addition ECM motors are significantly quieter and less expensive to operate than conventional furnace fans.

ECMs use significantly less electricity to deliver the warm air from the furnace and the cool air from the CAC throughout your home. With their adjustable speed design, furnaces with an ECM motor operate with as little as 80 watts of electricity. That's as much as ten times less than standard fan motors which run on high all the time.

Furnaces equipped with an ECM have lower annual operating costs and can save you \$40 to \$300 per year depending on how you use the furnace fan. Some homeowners choose to run their fan continuously to help even out warm and cold spots in their home or to provide extra air

filtration which may be valued due to health concerns. ECMs provide:

- More reliability and longer equipment life
- Improved, heat and cool distribution
- Less risk of overheating
- More power while maintaining performance

### Rebate available

- Agralite residential members are eligible for a \$100 rebate for ECMs installed in Agralite's service territory. Rebates are available to members who purchase a new furnace with an ECM or upgrade to an ECM in an existing furnace.
- What you need to do
  1. You must be a member of Agralite to be eligible
  2. Check with Agralite to verify funding, program parameters and product qualification.
  3. Complete the ECM rebate application on the back of this sheet and include proof-of-purchase.
    - Installation must be complete before rebate will be issued
    - Itemized invoices from equipment vendors must accompany rebate application
    - Invoices must itemize labor charges, quantity and price of the equipment installed
    - Invoices must include manufacturer and model numbers for the installed equipment
    - Agralite reserves the right to conduct inspections



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## More ideas for reducing heating and cooling bills

- Install a programmable thermostat
- Sign up for an EnergyWise® off-peak program such as Cycled Air Conditioning®
- Use a rebate from Agralite Electric Cooperative to install a heat pump or high-efficiency air conditioner
- Change your furnace filters monthly
- Have your air conditioner or air-source heat pump tuned up with help from an Agralite rebate

## Contact us

To save energy and money, call  
 Agralite Electric Cooperative  
 PO Box 228  
 Benson, MN 56215  
 1-800-950-8375 or 320-843-4150



## Member Information

Name \_\_\_\_\_ Account # \_\_\_\_\_

Address where ECM is installed \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_ Phone \_\_\_\_\_

Member Type     Homeowner     Renter     Landlord     Builder     Other

## Equipment Information

Manufacturer \_\_\_\_\_ Model Number \_\_\_\_\_

AHRI Number \_\_\_\_\_ Horsepower Rating \_\_\_\_\_

- New furnace with ECM
- New ECM only (in existing furnace) – Check box below that applies:
  - Replaces standard motor
  - Replaces defective ECM

Contractor Name \_\_\_\_\_ Location \_\_\_\_\_

For statistical purposes only, is your household income above or below the amount corresponding to your household size? [local cooperative] will combine your response with others for analysis, as required by the Minnesota Department of Commerce.

- Above     Below

Size	Annual Income	Past 3 months	Size	Annual Income	Past 3 months
1	\$21,965	\$5,423	5	\$51,580	\$12,895
2	\$29,140	\$7,285	6	\$59,060	\$14,765
3	\$36,620	\$9,155	7	\$66,540	\$16,635
4	\$44,100	\$11,025	8	\$74,020	\$18,505

- Rebates are available only for the purchase of a new furnace with an ECM or replacement motor purchased on or after January 1, 2010.
- Rebate submittal must follow the guidelines as listed above.
- The ECM must be installed where electricity is supplied by Agralite Electric Cooperative.
- Rebate program is subject to change or cancellation without notice.
- Agralite is not responsible for inaccurate information supplied by HVAC contractor or installer.
- Call Agralite to verify rebate program status.
- For questions, call Agralite Electric Cooperative at 1-800-950-8375 or 320-843-4150

Source for statistics: [http://www.mnpower.com/powerofone/one\\_home/hvac/furnace/index.htm](http://www.mnpower.com/powerofone/one_home/hvac/furnace/index.htm)



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