

# VENTILATION AND CIRCULATION

## High Volume Low Speed Fans

- High Volume Low Speed Fans \$35/ft.  
Must be a ceiling-mounted fan with a diameter of 10' or more. Rebate is based on fan blade diameter in feet.



MacroAir

Research has shown that a cool cow is a productive cow and that milk production increases up to two pounds per cow when they are in a comfortable environment.

Energy-efficient HVLS fans keep cows cool by moving air more efficiently through barns and open-air sheds while keeping bugs, birds and dust under control.



## FOR MORE INFORMATION VISIT

ENERGY STAR®  
energystar.gov

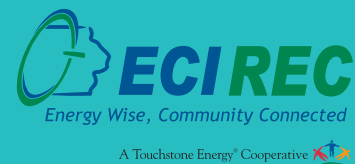
DesignLights Consortium™ (DLC)  
designlights.org

Iowa State Extension  
extension.iastate.edu

BESS Labs  
bess.illinois.edu

For more energy saving opportunities, contact ECI REC about available residential and commercial rebates.

All programs subject to change at any time, without prior notice.



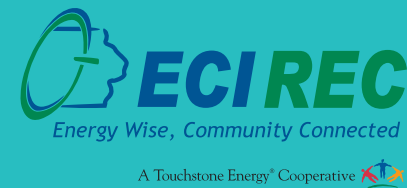
ecirec.coop

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# 2022 AGRICULTURAL REBATES



# VENTILATION AND CIRCULATION

Farm animals require ventilation and air movement for comfort and productivity year-round. Rebates are available for high efficiency systems that could help save energy costs of up to 30% a year.

## Ventilation and Circulation Fans

The operating costs of a ventilation system will depend on the efficiency of the equipment, configuration of the fans, proper installation and control over the amount of airflow.

Ventilation Fans (fan blade diameter) \$3/inch

Ventilation Thermostat Controller with Humidistat \$25 each

Circulation Fans (fan blade diameter) \$1/inch

**Ventilation Fan Efficiency Requirements**  
(must be BESS Labs rated at 0.10 in. static pressure)

- 14-23 inch - min. 10.5 CFM/Watt
- 24-35 inch - min. 13.0 CFM/Watt
- 36-47 inch - min. 16.5 CFM/Watt
- 48-49 inch - min. 18.5 CFM/Watt
- ≥ 50 inch - min. 19.5 CFM/Watt

**Circulation Fan Efficiency Requirements**  
(must be BESS Labs rated at thrust/kW requirements)

- 12-23 inch - min. 11.0 lbs. thrust/kW
- 24-35 inch - min. 15.0 lbs. thrust/kW
- 36-47 inch - min. 18.5 lbs. thrust/kW
- ≥ 48 inch - min. 23.0 lbs. thrust/kW

Rebates are limited to \$5,000 per account for all ventilation and circulation equipment.

**Why ENERGY STAR® or DesignLights™?**

ENERGY STAR and the DesignLights Consortium™ have developed product lists to identify quality LED lighting products that meet certain performance criteria. ENERGY STAR and DesignLights qualified products have been tested to verify that they perform as advertised and that required safety certifications have been obtained. This means consumers can purchase these products with confidence and know they are likely to last longer and perform better than non-listed products.

**DAIRY OPERATIONS**

Energy-efficient equipment and technologies can go a long way in helping to reduce energy expenses and improve productivity.

**Dairy Heat Reclaimers** **\$5 per milking cow**  
Heat reclaimers can reduce water-heating energy usage by 60% to 80% by recovering the heat discharged from dairy refrigeration equipment.

**Dairy Milk Pre-Coolers** **\$4 per milking cow**  
Reducing the temperature of milk with “pre-coolers” helps reduce refrigeration system energy costs by 20% to 30%.

**Variable Speed Dairy Vacuum Pumps** **\$40/horsepower**  
Variable speed drives (VSDs) used with dairy vacuum systems can reduce electricity use by as much as 60%.

**Dairy Scroll Compressor** **\$250 each**  
Refrigeration systems with scroll compressors are 15% to 20% more efficient than traditional reciprocating compressor systems.  
*(must replace reciprocating compressor)*

*The maximum rebate is \$2,000 for each equipment type.*

**LIVESTOCK EQUIPMENT**

**Livestock Waterers**  
Rebates are available for efficient waterers with tanks constructed of plastic, a minimum of 2 inches of insulation and lid covers.

Electric Heated Livestock Waterers **\$50 each**  
*(≤ 175W per trough opening)*

**LIVESTOCK EQUIPMENT**

**Farrowing Equipment**  
Efficient heating pads and controllers help reduce energy use and improve animal health.

- Single Crate Heating Pads **\$25/pad**  
*(≤ 85W)*
- Double Crate Heating Pads **\$50/pad**  
*(≤ 170W)*
- Heat Lamp or Pad Controller **\$50/controller**

**LIGHTING**

**Horticulture LED Lighting**

8-14W	\$10/fixture
15-49W	\$15/fixture
50-99W	\$25/fixture
≥ 100W	\$40/fixture

*Horticulture lighting must be classified as such in DesignLights Consortium to qualify.*

*Maximum incentive is 50% of installed costs. Custom rebates may be available; contact your cooperative for further details.*



*Contact ECI REC for the complete list of rebates and qualifications.*