



MOTOR AND VARIABLE FREQUENCY DRIVE PRODUCTS

This Equipment Catalog describes the eligibility requirements and rebate amounts for qualifying equipment under SRP’s FY12 PowerWise Standard Business Solutions program. It also includes instructions on how to complete the Rebate Application and information regarding any required additional documentation. SRP’s PowerWise Standard Business Solutions provides rebates for many types of energy efficient technologies. Please read the following sections carefully to ensure that you purchase and install qualifying equipment.

In order to be eligible for rebates through the PowerWise Standard Business Solutions program all equipment must meet the following requirements:

- Equipment must be purchased on or after May 1, 2011. Applications for post purchase measures must be received no later than July 31, 2012 to be eligible for rebates (subject to rebate availability).
- Equipment must be new and installed in a manner that meets or exceeds code regulations.
- Replaced equipment must be disposed of in accordance with local, state, or federal codes and regulations and cannot be re-installed elsewhere.

Pre-qualification of eligible measures under the PowerWise Standard Business Solutions program is not required **except** for Retrofit Lighting Equipment and occupancy sensors. Additional eligibility and submittal requirements for Motor and VFD technologies are outlined in this Equipment Catalog.

Rebates for additional measures may be available. For more information about PowerWise Standard Business Solutions, eligibility requirements, rebate levels, other SRP energy efficiency programs, or general inquiries, contact a participating SRP Alliance Contractor. You can also visit the program’s Web site at www.savewithsrpbiz.com, email us at savewithsrpbiz@srpnet.com, or contact the PowerWise Business Solutions hotline at 602-236-3054.

ELECTRONICALLY COMMUTATED MOTORS

Measure Description: An electronically commutated motor (ECM) is a fractional horsepower direct current (DC) motor used most often in commercial refrigeration applications such as display cases, walk-in coolers/freezers, refrigerated vending machines, and bottle coolers. ECMs can also be used in HVAC applications, primarily as small fan motors for packaged terminal units or in terminal air boxes.

Applicability: New construction (except for walk-in main refrigerator or freezers) and retrofit installations are eligible.

Equipment Eligibility: All ECMs up to 1 HP in size may qualify for an incentive. Equipment must be purchased and installed, and meet all other program terms and conditions. ECMs exceeding 1 HP and other motors that exceed NEMA Premium efficiency requirements may be eligible for rebates under the custom program, which requires pre-approval.

- Items to submit with Rebate Application:**
1. Dated sales receipt/invoice
 2. Manufacturer’s equipment specification sheet

Instructions for Rebate Application: In the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the nameplate motor size.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table M-2.

Table M-2. Electronically Commutated Motors (ECM)

Equipment Code	Measure Description	Unit	Rebate
ECMREF	Refrigeration Application	Nameplate Wattage	\$0.50/watt
ECMHVC	HVAC Application	Nameplate HP	\$50/HP

VARIABLE FREQUENCY DRIVES

Measure Description: Variable Frequency Drives (VFDs) are electronic controls that regulate motor speed and torque, resulting in reduced energy consumption under part load conditions.

Applicability:

For retrofit projects: For HVAC installations where a variable load is present, any throttling or bypass devices (such as inlet vanes), bypass dampers, three-way valves or throttling valves must be removed or permanently disabled to qualify for HVAC fan and pump VFD rebates. Savings will only be realized where a variable load is present. Rebates are not available for retrofits of existing VFDs.

For new construction projects: Rebates are not available where VFDs are required by ASHRAE 90-1 2004, which requires a VFD on HVAC fans \geq 15 horsepower (where a variable flow system is required).

Equipment Eligibility: The rebates listed for this measure apply to fan and pump applications on HVAC distribution systems. The maximum fan or pump size is 100 hp. Equipment must be purchased and installed, and meet all other program terms and conditions.

Chillers retrofitted with a VFD, VFDs larger than 100 hp, or VFDs installed on non-HVAC equipment may be eligible for rebates under the PowerWise Custom Business Solutions program. For more information about this program, contact the Program Administrator **before** you purchase your equipment.

Items to submit with Rebate Application: 1. Dated sales receipt/invoice

Instructions for Rebate Application: In the Rebate application mark the “Efficiency” as “NA” and the “Measure Size” as the nameplate motor size of the affected motor.

Measure Rebate: Rebate amount for qualifying measures are listed below in Table M-3.

Table M-3. Variable Frequency Drives (VFDs)

Equipment Code	Measure Description	Unit	Rebate
VFDF	HVAC Fan \leq 100 HP	HP	\$55/HP
VFDP	HVAC Pump \leq 100 HP	HP	\$55/HP