



## COMPRESSED AIR MEASURES

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. In the PowerWise Standard Business Solutions program, "SCFM" is defined as "Cubic Feet of air per Minute at standard conditions (14.696 psia, 68°F, and 0% relative humidity)". Additional eligibility and submittal requirements for Compressed Air products 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](http://www.savewithsrpbiz.com), email us at [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com), or contact the PowerWise Business Solutions hotline at 602-236-3054.

## LOW PRESSURE DROP FILTERS

**Measure Description:** Coalescing filters are designed to remove solids and aerosols from compressed air. Aerosols coalesce into liquids that fall to the bottom of the filter body and are removed through a drain to a condensate system. Loose-packed, deep-bed coalescing filters have lower pressure drop, longer element life and perform the same task as standard coalescing filters.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** Low pressure drop filters must:

1. Be installed on an operating compressor 25 HP or larger
2. Have a pressure loss at rated flow  $\leq 1$  psi when new and  $\leq 3$  psi at element change
3. Have particulate filtration that is 100% at  $\geq 3.0$  microns and at least 99.98% at 0.1 to 3.0 microns
4. Be rated for  $\leq 5$  ppm liquid carryover
5. Be a deep-bed "mist eliminator" style with element life  $\geq 5$  years
6. Have a rated capacity  $\leq 500$  scfm

**Items to submit with Rebate Application:**

1. Dated sales receipt/invoice
2. Manufacturer's equipment specification sheet demonstrating compliance with equipment eligibility requirements

**Instructions for Rebate Application:** In the Rebate application note the "Efficiency" as NA, "Measure Size" as the filter's rated capacity in SCFM, "Operating Hours" as the annual hours of operation of the compressed air system, and "System Properties" as the 1) Total HP, 2) SCFM, 3) Storage capacity in gallons, 4) Compressor load/unload controls, and 5) Operating pressure of the compressed air system.

**Measure Rebate:** Rebate amount for qualifying measures are listed below in Table CA-1.

**Table CA-1. Low-Pressure Drop Filter Rebate**

Equipment Code	Measure Description	Rebate
CALPDF	Low-Pressure Drop Filter	\$0.80/SCFM

**ZERO LOSS CONDENSATE DRAINS**

**Measure Description:** Liquid water must be removed from compressed air systems. Zero loss condensate drains remove the water without venting compressed air. They can be electronically or pneumatically actuated.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** Drain must be designed to function without the release of compressed air into the atmosphere.

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

**Instructions for Rebate Application:** In the Rebate application note the “Efficiency” as NA, “Operating Hours” as the annual hours of operation of the compressed air system, and “System Properties” as the 1) Total HP, 2) SCFM, 3) Storage capacity in gallons, 4) Compressor load/unload controls, and 5) Operating pressure of the compressed air system.

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

**Table CA-2. Zero Loss Condensate Drain Rebate**

Equipment Code	Measure Description	Rebate
CAZERO	Zero loss condensate drain	\$90.00/unit

**ADDITIONAL RECEIVER CAPACITY**

**Measure Description:** Adding receiver volume to a compressed air system may allow the system to operate at lower pressure, slow compressor cycling, and allow for better sequencing of compressors.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** Adding receiver capacity is eligible for rebates when the total tank receiver capacity after the addition must be > 2 gallons per scfm of compressor capacity.

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

**Instructions for Rebate Application:** In the Rebate application note the “Efficiency” as NA, “Measure Size” as the new receiver’s capacity in gallons, “Operating Hours” as the annual hours of operation of the compressed air system, and “System Properties” as the 1) Total HP, 2) SCFM, 3) Storage capacity (in gallons including the new receiver), 4) Compressor load/unload controls, and 5) Operating pressure of the compressed air system.

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

**Table CA-3. Additional Receiver Capacity Rebate**

Equipment Code	Measure Description	Rebate
CARCVR	Additional Receiver Capacity	\$1.50/gallon

**REFRIGERATED CYCLING DRYERS**

**Measure Description:** At reduced capacity, cycling refrigerated dryers use less energy than non-cycling dryers. Non-cycling refrigerated dryers use a nearly constant amount of energy, regardless of compressed air flow. Cycling refrigerated dryers use energy nearly in proportion to the compressed air flow.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** Refrigerated cycling dryers must:

1. Have a rated dryer capacity ≤ 500 scfm
2. Operate exclusively in cycling mode and not be equipped with the ability to select between cycling and non-cycling mode
3. Cycle off during periods of reduced demand (i.e. compressor doesn't simply go into a bypass or unload mode)
4. Have integral zero loss condensate drain, or zero loss condensate drain must be installed and accompany sale of dryer

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

**Instructions for Rebate Application:** In the Rebate application note the “Efficiency” as NA, “Measure Size” as the dryer’s rated capacity in SCFM, “Operating Hours” as the annual hours of operation of the compressed air system, and “System Properties” as the 1) Total HP, 2) SCFM, 3) Storage capacity in gallons, 4) Compressor load/unload controls, and 5) Operating pressure of the compressed air system.

**Measure Rebate:** Rebate amount for qualifying measures are listed below in Table CA-4.

**Table CA-4. Refrigerated Cycling Dryer Rebate**

Equipment Code	Measure Description	Rebate
CAREFD	Refrigerated cycling dryer	\$1.50/SCFM

**VFD COMPRESSORS**

**Measure Description:** Variable speed oil injected screw compressors are more efficient than fixed speed oil injected screw compressors at medium and low capacity. Many variable speed compressors are able to cycle on and off during periods of low load, providing improved efficiency at very low capacity.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** VFD compressors must:

1. Be oil-injected screw unit less than or equal to 75 HP
2. Adjust speed as primary means of capacity control
3. Not use inlet modulation when demand is below minimum speed air production

**Items to submit with Rebate Application:**

1. Dated sales receipt/invoice
2. Manufacturer’s equipment specification sheet demonstrating compliance with equipment eligibility requirements

**Instructions for Rebate Application:** In the Rebate application note the “Efficiency” as NA, “Measure Size” as the compressor’s rated size in HP, “Operating Hours” as the annual hours of operation of the compressed air system, and “System Properties” as the 1) Total HP, 2) SCFM, 3) Storage capacity in gallons, and 4) Operating pressure of the compressed air system.

**Measure Rebate:** Rebate amount for qualifying measures are listed below in Table CA-5.

**Table CA-5. VFD Compressor Rebate**

Equipment Code	Measure Description	Rebate
CAVFDC	VFD compressor	\$90.00/HP