

2008 Compressed Air Rebate

Instructions for completing the Retrofit COMPRESSED AIR Rebate Worksheet

General Notes:

1. A vendor proposal is required for a rebate and must include the Compressed Air Plant Proposal Information found on page three in these instructions.
2. The Compressed Air Rebate must be completed and the rebate approved prior to purchasing and installing the equipment
3. Compressors under 15 HP are not eligible for rebates.
4. Compressors over 75 HP are not eligible for a prescriptive rebate but may be eligible for a Custom Rebates.
5. Invoices will be required for payment of rebates.

Eligibility Requirements:

To be eligible for rebates, the equipment must meet the following requirements:

Compressors

1. Nameplate horsepower of compressors must be equal to or greater than 15 HP and less than or equal to 75HP. Compressors with manufacturers ratings only in kilowatts will be assumed to have horsepower ratings equal to Compressor *kW* rating (motor only) / .746.
2. Existing compressor being replaced must use modulating control. Compressors with other control methods must use the Custom Rebate process.
3. Prescriptive rebates are only applicable to single compressor systems. Multiple compressor systems of any size that serve a common distribution system may submit applications as a Custom Rebate Project. Projects that have multiple and comprehensive measures shall be processed as a Custom Rebate.
4. Prescriptive rebates are only applicable to compressors with an operating pressure of 145 psi or below. Compressors with higher operating pressures shall be processed as a Custom Rebate.
5. Prescriptive rebates are only applicable to oil flooded Rotary Screw Compressors. Other compressor types may be eligible for a rebate as a Custom Rebate Project.
6. Compressor control shall be: Load/No Load (L/NL), Variable Speed Drive (VSD) or Variable Displacement (VD).
7. Compressors must operate a minimum of 2000 hours a year.
8. Check with your utility representative for power quality or harmonics requirements for compressors with VFD's

Storage

1. Primary storage is required on all compressors receiving rebates.
2. Rebates are only available for air storage tank(s) in association with new compressor equipment installations.

Dryers

1. New dryers being installed with new compressor equipment or on existing compressor systems under this program may be eligible for a custom rebate under the New Equipment and Construction (NE&C) Program. Customer / Vendor must provide the required supporting documentation to evaluate the new dryer.

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Calculation of Rebates

1. Refer to the back side of the rebate application entitled “**Retrofit Compressed Air Rebate Worksheet**” to determine the following rebates as applicable:

Air Compressor Rebate

1. Enter air compressor nominal horsepower (from manufacturer’s data) in column (A).
2. Enter the air compressor capacity (acfm) (manufacturers rating at the actual compressor operating pressure.)
3. Enter the compressor control code found in Table “**1Compressor Control Codes & Storage Requirements.**”
4. Enter if additional storage is to be provided (yes or no).
5. Enter Rebate (\$) per HP in column (B) found in Table “**2 High Efficiency Air Compressor Rebate per HP.**”
6. To calculate the air compressor rebates multiply the Compressor Horsepower from column (A) by the Rebate per HP from column (B).

Additional Primary Storage Rebate

1. In column A, calculate the “Minimum Storage Required” (gals) by multiplying the “Minimum Gallons per CFM” for the compressor type found in “**1Compressor Control Codes & Storage Requirements.**” Table by the cfm noted in the Compressor Rebate Calculation.
2. In column B, calculate the “Maximum Storage Eligible” (gals) by multiplying the “Maximum Gallons per CFM” for the compressor type found in “**1Compressor Control Codes & Storage Requirements.**” Table by the cfm noted in the “Compressor Rebate Calculation”.
3. In column C enter any existing storage (gals)
4. In column D, calculate the “Minimum New Storage Required” (gals) by subtracting the “Minimum Storage Required”, column A from the “Existing Storage”, column C.
5. In column E, calculate the “Maximum New Storage Eligible” (gals) by subtracting the “Maximum Storage Eligible”, column B from the “Existing Storage”, column C.
6. In column F, enter the “Storage to be installed” (gals)
7. To calculate the storage rebate multiply the “Storage to be installed”, column F by \$2.75/gal. Note that the gallons stated in “Storage to be installed”, column F can not exceed the “Maximum New Storage Eligible”, column E.

Total Retrofit Compressed Air Rebate

1. Calculate the total rebate by summing the Air Compressor and Storage rebates.

Post-Installation:

Utility Representative must verify that:

1. The single compressor has been installed and operating as follows:
 - a. System operating pressure _____ psi
 - b. Original primary storage capacity _____ gallons
 - c. Additional primary storage capacity _____ gallons
 - d. Total primary storage capacity _____ gallons
 - e. Final gallons per compressor CFM _____
 - f. If VFD, have harmonic requirements been met? Yes _ No _ **(this is utility specific)**
 - g. Verify compressor manufacturer, compressor model, horsepower, and rated CFM
 - h. Verify dryer manufacturer, dryer model, and rated CFM
2. The compressor matches the Compressor Rebate Application information. If the equipment has changed from what was approved for the initial rebate offer, the substituted equipment specifications must be submitted and reviewed by the utility to verify compliance with technical requirements and approved before a rebate is considered.
3. The invoice or proof of payment has been submitted.
4. The Utility Representative & Customer have signed / dated the post installation inspection block on the rebate form.

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COMPRESSED AIR PLANT PROPOSAL INFORMATION

The following information shall be included in the proposal requesting a rebate. Please describe the major components of the existing compressor and compressed air system.

Existing Compressor Description (Manufacturer & Model)	Rated HP & cfm	Operating psi	Control Type	Hours/Wk	Annual Hours	Loading Hours/Wk (% CFM)
Ex: Gardner Denver Modulating 50 HP Model: #ABCDEF	50hp 220CFM	110 psi	Mod	100 hrs	5,200 hrs/yr	10hr@90% 30hr@30% 50hr@60%
1.						
2.						

Proposed Compressor Description (Manufacturer & Model)	Rated HP & acfm	Operating psi	Control Type	Hours/Wk	Annual Hours	Loading Hours/Wk (% CFM)
Ex: Gardner Denver Modulating 50 HP Model: #ABCDEF	50hp 220CFM	110 psi	Mod	100 hrs	5,200 hrs/yr	10hr@90% 30hr@30% 50hr@60%
1.						

The following information shall also be included in the proposal:

Compressor

How many shifts _____ and how does production vary? _____

What is the current system pressure at the furthest point from the compressor? _____ psi

What is the minimum pressure required for proper equipment operation? _____ psi

Any significant operational problems

- Inadequate pressure Yes No
- Moisture or air quality Yes No
- Production problems due to pressure fluctuations Yes No
- Other _____

Compressor Age _____

Compressor Cooling Medium (air, chilled water) _____

Number of Condensate Drains _____ Type _____ Timer Settings _____

Dryer

Dryer Type: Desiccant _____ Refrigerant _____ None _____

Dryer Capacity (CFM) _____

Leak Identification and Remediation

Date of Last Leak Survey if Any _____

Survey Provider and Survey Type (eg ultrasonic) _____

Estimate Leak Level from Survey _____

Follow-up Leak Remediation Efforts _____

For Compressed Air Challenge technical and training information please visit <http://www.knowpressure.org>.