

Compressed Air and Industrial Motors Worksheet



TAKE CHARGE™

Before you start

Instructions: Complete all relevant information for your project. Include with completed final application package.

All rebates are paid per unit and are capped at 30 percent of project's total cost.

Questions? Call 888-261-4567

Submit your application

The following documents must accompany the Compressed Air and Industrial Motors Worksheet in a complete application:

- Rebate application
- Equipment spec sheet
- Itemized invoice showing model number
- W9 for payee
- Copy of latest electric bill

1 Project Information

Retrofit

ZIP (project location):	Estimated/Actual Install Date:
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2 Building Type

- | | | |
|--|---|--|
| <input type="checkbox"/> Assembly | <input type="checkbox"/> Health/Medical - Nursing Home | <input type="checkbox"/> Office - Large |
| <input type="checkbox"/> Auto-Related | <input type="checkbox"/> Industrial/Manufacturing - 1-Shift | <input type="checkbox"/> Office - Small |
| <input type="checkbox"/> Convenience Store | <input type="checkbox"/> Industrial/Manufacturing - 2-Shift | <input type="checkbox"/> Religious Worship/Church |
| <input type="checkbox"/> Data Center | <input type="checkbox"/> Industrial/Manufacturing - 3-Shift | <input type="checkbox"/> Restaurant - Fast-Food |
| <input type="checkbox"/> Education - Community College | <input type="checkbox"/> Industrial/Manufacturing - Biotech/High Tech | <input type="checkbox"/> Restaurant - Sit-Down |
| <input type="checkbox"/> Education - Primary School | <input type="checkbox"/> Institutional/Public Service | <input type="checkbox"/> Retail - Multi-story Large |
| <input type="checkbox"/> Education - University | <input type="checkbox"/> Lodging - Hotel | <input type="checkbox"/> Retail - Single-story Large |
| <input type="checkbox"/> Education - Secondary School | <input type="checkbox"/> Lodging - Motel | <input type="checkbox"/> Retail - Small |
| <input type="checkbox"/> Grocery | <input type="checkbox"/> Multi-Family (Common Areas) | <input type="checkbox"/> Storage - Conditioned |
| <input type="checkbox"/> Gymnasium | <input type="checkbox"/> Museum/Library | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> Health/Medical - Hospital | | <input type="checkbox"/> Warehouse - Refrigerated |

3 Trade Ally/Contractor Information

Business Name:

Contact Name:	Phone:
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Business Address:

City:	State:	ZIP:
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4 Air Nozzles for Air Compressors

Date Installed	Quantity Installed	Manufacturer	Model #	Efficient Nozzle CFM	Facility Operation Schedule	Nozzle Size	Compressor Control Type	Cost
					<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	<input type="checkbox"/> 1/4" <input type="checkbox"/> 1/8"	<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	
					<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	<input type="checkbox"/> 1/4" <input type="checkbox"/> 1/8"	<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	
					<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	<input type="checkbox"/> 1/4" <input type="checkbox"/> 1/8"	<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	

5 No-Loss Condensate Drain

Date Installed	Quantity Installed	Manufacturer	Model #	Compressor Control Type and Storage Volume	Facility Operation Schedule	Cost
				<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	
				<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	
				<input type="checkbox"/> Reciprocating - On/Off <input type="checkbox"/> Reciprocating - Load/Unload <input type="checkbox"/> Screw - Load/Unload <input type="checkbox"/> Screw - Inlet Modulation <input type="checkbox"/> Screw - Inlet Modulation w/ Unloading <input type="checkbox"/> Screw - Variable Displacement <input type="checkbox"/> Screw - VFD	<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7	

6 VFD Air Compressor

Date Installed	Manufacturer	Model #	Operating Schedule	Compressor Motor Size (HP)	Equipment Cost
			<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7		
			<input type="checkbox"/> 1-Shift 5 Days per Week <input type="checkbox"/> 2-Shift 5 Days per Week <input type="checkbox"/> 3-Shift 5 Days per Week <input type="checkbox"/> 24/7		

7

Variable Frequency/Speed Process Pumps and Fans

Date Installed	Quantity Installed	Manufacturer	Model #	Efficient Motor HP	Existing Motor Type	Existing Flow Control Type	Cost
					<input type="checkbox"/> Fan <input type="checkbox"/> Pump	<input type="checkbox"/> Bypass Valve (Pumps) <input type="checkbox"/> Discharge Damper (Fan) <input type="checkbox"/> Eddy Current Drive (Fans or Pumps) <input type="checkbox"/> Outlet Control Valve (Pumps) <input type="checkbox"/> Outlet Damper (Forward-Curved Fan) <input type="checkbox"/> On/Off (Fans or Pumps) <input type="checkbox"/> Torque Converter (Pumps) <input type="checkbox"/> VFD (Fans or Pumps) <input type="checkbox"/> Motor Horsepower _____	
					<input type="checkbox"/> Fan <input type="checkbox"/> Pump	<input type="checkbox"/> Bypass Valve (Pumps) <input type="checkbox"/> Discharge Damper (Fan) <input type="checkbox"/> Eddy Current Drive (Fans or Pumps) <input type="checkbox"/> Outlet Control Valve (Pumps) <input type="checkbox"/> Outlet Damper (Forward-Curved Fan) <input type="checkbox"/> On/Off (Fans or Pumps) <input type="checkbox"/> Torque Converter (Pumps) <input type="checkbox"/> VFD (Fans or Pumps) <input type="checkbox"/> Motor Horsepower _____	

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Appendix

Air Nozzles for Air Compressors

Measure Description: This measure applies to the replacement of an inefficient, stationary, non-air entraining air nozzle in an industrial application.

How It Saves Energy: By entraining and amplifying atmospheric air into a stream, air-entraining air nozzles use less compressed air to do the same job as conventional air nozzles. Air-entraining nozzles can also reduce noise in systems with air at pressures greater than 30 psig.

Eligibility: Air-entraining air nozzles must replace an open copper tube (of 1/8" or 1/4" orifice diameter) with an energy-efficient air-entraining air nozzle that uses less than 15 CFM at 100 psi.

No-Loss Condensate Drains

Measure Description: This measure applies to the installation of new no-loss condensate drains in a compressed air system that prevent compressed air from leaving the system when condensate is drained.

How It Saves Energy: Water that is condensed out of a compressed air system (typically by refrigerated air dryers) must be drained. Many condensate drains are controlled by a timer that operates the drain for a fixed amount of time on regular intervals regardless of condensate levels. When drains open, compressed air escapes without doing any purposeful work in the system. In a no-loss condensate drain system, a sensor monitors condensate level, opens the drain valve when condensate needs to be drained, and closes before compressed air can escape.

Eligibility: To be eligible, no-loss condensate drains must replace standard condensate drains operated by a timer-controlled solenoid valve.

VFD for Air Compressor

Measure Description: VFD air compressor closely matches air demand with production by varying compressor speed to match production.

How It Saves Energy: Compared to load/no load machines, VFD air compressors save energy at part-load conditions.

Eligibility: Measure applies to new and replacement air compressors having VFD controls. Machine must be more than 10 HP and no more than 40 HP. It must be installed in a facility of at least 2-shifts.

VFD Process Pumps and Fans

Measure Description: Variable Frequency Drives (VFDs) control the speed of a motor to match flow demands.

How It Saves Energy: When used in place of traditional controls such as throttling or bypass valves in applications for which loads vary, VFDs can be highly effective at cutting energy costs. In addition to the VFD, this measure requires that sensors are installed to control VFD speed by differential pressure, flow, temperature, or another relevant input.

Eligibility: This measure applies only to process pumping and fans. Controls for space conditioning needs do not qualify for this rebate.