



Office Use Only  
Rebate:

Month/Year:

## NON-RESIDENTIAL Advanced Rooftop Unit Control (ARC) Rebate Application

Complete form and sign/date below. All information is required to process rebate(s). An AHRI certificate must accompany the pre-approval request. **Incomplete forms will be returned to the applicant.**  
**This will delay rebate processing.**

### CUSTOMER INFORMATION

Account No.		Date of Installation		Date	
Company Name on Account		Contact Name			
Installation Address		Contact Phone			
City		State		Zip	
Mailing Address (if different)		Contact Email			
City		State		Zip	

### SITE INFORMATION

Rooftop unit heating system type (please check one)	<input type="checkbox"/> Electric heat pump <input type="checkbox"/> Electric resistance <input type="checkbox"/> Gas
Building occupancy hours per year (please check one)	<input type="checkbox"/> Less than 2,500 Hours <input type="checkbox"/> 2,500 – 5,500 hours <input type="checkbox"/> Greater than 5,500 hours
Building Type (please check one)	<input type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Grocery <input type="checkbox"/> Lodging <input type="checkbox"/> Warehouse <input type="checkbox"/> Food Service <input type="checkbox"/> Hospital <input type="checkbox"/> School <input type="checkbox"/> Residential Care <input type="checkbox"/> Assembly <input type="checkbox"/> Other (describe): _____

### PRODUCT INFORMATION

	ARC 1	ARC 2	ARC 3
--	-------	-------	-------

Equipment Type	<input type="checkbox"/> Full ARC <input type="checkbox"/> ARC Lite	<input type="checkbox"/> Full ARC <input type="checkbox"/> ARC Lite	<input type="checkbox"/> Full ARC <input type="checkbox"/> ARC Lite
Manufacturer			
Model			
Installed cost (per attached invoice)			
Order/purchase date (per attached invoice)			

- Must be on the BPA Qualified Products List.
- Must be installed on a unitary system with a constant-speed supply fan. Split systems and rooftop units with variable speed fans are not eligible.

**Rebate(s) will not exceed 70% of total installed cost. To ensure availability of funds project must be pre-approved.**

MEASURE	TONS PER AHRI ROUND TO THE NEAREST WHOLE TON	REBATE
ARC Retrofit – Lite*		\$100.00 per ton, attach AHRI
ARC Retrofit – Full**		\$200.00 per ton, attach AHRI

\*ARC Lite – A VFD & controller for variable speed fan operation or a multi-speed motor & controller for multi-speed fan operation.

\*\*ARC Full – Full ARC products also add a controller with all of the following enabled: Digital, integrated economizer control with either differential dry-bulb or differential enthalpy with fixed dry-bulb high-limit shutoff & demand control ventilation with proportional control, based on CO2 sensor reading.

Upon signing this agreement, customer acknowledges the following:

Rebate offer(s) may be changed or discontinued at any time by City of Cascade Locks (CCL). CCL disclaims any warranty, whether expressed or implied, regarding the energy efficient upgrade(s) listed on this application for any materials or labor associated with installation, maintenance, repair, or any energy savings associated with use.

I understand that the energy efficient upgrade(s) must be installed to CCL specifications, and certify that I, or my contractor, have reviewed the specifications prior to beginning work. When selecting a contractor, I understand that it is the business owner's responsibility to request proof of insurance and licensing that meets the statutes and rules of the Oregon Construction Contractors Board. CCL strongly recommends validating qualifications before work begins.

I understand the above and certify that I am a customer of CCL, that the energy efficient upgrade(s) are installed at the address indicated and that this address is within CCL service territory.

**CUSTOMER SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Mail original completed rebate application, final invoice and AHRI for project to:**

**The City of Cascade Locks**  
**Attn: Energy Efficiency Rebates**  
**5625 NE Elam Young Parkway #100**  
**Hillsboro, OR 97124**  
**FAX: 1-503-344-6942**  
**rebates@esgroupllc.com**

**Rebate Applications are due within 6 months of purchase to qualify.**

**Allow 8 to 10 weeks for rebate processing, after the receipt of the final invoice and paperwork.**

**Call 1-888-883-9879 to learn about additional energy efficiency programs.**

*Participation in this energy efficiency program allows the City of Cascade Locks to use your electrical energy consumption history for energy savings research. Your consumption history may be shared anonymously with Bonneville Power Administration for energy savings verification and research.*



# NON-RESIDENTIAL ADVANCED ROOFTOP UNIT CONTROL (ARC) REBATE PROGRAM

## Steps to Participation

### 1. GETTING STARTED

- Contact the City of Cascade Locks (CCL) Efficiency Services ([rebates@esgroupllc.com](mailto:rebates@esgroupllc.com)) regarding a potential non-residential ARC lite or full retrofit.
- Forward the Non-Residential rebate application & AHRI certificate to [rebates@esgroupllc.com](mailto:rebates@esgroupllc.com).
- The payment is \$100 per ton for lite retrofit or \$200 per ton for full retrofit rebate.
- To calculate the rebate, sum the tons from all retrofitted RTU's installed and then round to the nearest whole ton or round each individual retrofitted RTU to the nearest whole ton, then sum all rounded tons.
- This measure is available for retrofits only.
- ARC projects are not eligible for a Connected Thermostat payment.
- RTU heating fuel type may be electric or gas.
- Must be on an existing rooftop unit & be listed on the ARC Qualified Products list.

### 2. PRE-INSTALLATION CONDITIONS

- **ARC – Retrofit Lite:** Products add one of the following equipment options to the existing RTU:
  - A VFD and controller for variable speed fan operation; or
  - A multispeed motor and controller for multispeed fan operation.
- **ARC – Retrofit Full:** Products add one of the following equipment options to the existing RTU:
  - A VFD and controller for variable speed fan operation; or
  - A multispeed motor and controller for multispeed fan operation.
  - Controller with the following enabled, digital, integrated economizer control with either differential dry-bulb, or differential enthalpy with fixed dry-bulb high-limit shutoff; and
  - Controller with the following enabled, demand control ventilation with proportional control, based on CO2 sensor reading.
- RTU has a cooling capacity equal to or greater than five tons;
- RTU has a unitary system (split systems are not eligible); and
- RTU has a constant-speed supply fan (RTU's with variable speed fans are not eligible).
- RTU must be installed on an existing rooftop unit; and
- RTU must be listed on the ARC Qualified Products List (QPL)
- An AHRI certificate must accompany the pre-approval to calculate the rebate incentive.

### 3. PROJECT PRE-APPROVAL

- CCL Efficiency Services sends the pre-approval to the contractor. The project is pre-approved for a six-month timeframe.
- If the RTU installation is not completed within the six-month timeframe the contractor or customer must reapply for the rebate. There is no guarantee that the rebate funds will be available or that the rebate amount will remain the same. Rebate(s) are available on a first come, first serve basis and are subject to availability of funds.

### 4. DOCUMENTS REQUIRED TO PROCESS YOUR REBATE(S)!

- The contractor final invoice(s) including equipment order or purchase date and the installed cost.
- The equipment model on the invoice must match the AHRI certificate.
- Completed Non-Residential ARC rebate application with the date of installation.
- Documents can be mailed to the address on the rebate application, faxed to 503-344-6942 or emailed to [rebates@esgroupllc.com](mailto:rebates@esgroupllc.com).

### 5. RECEIVE YOUR REBATE

You can expect to receive your rebate 8 to 10 weeks after the receipt of all required documentation. Rebate(s) will not exceed 70% of the total installed cost.

**All work must meet Bonneville Power Administration (BPA) and The City of Cascade Locks program installation requirements.**

**For additional questions, call 1-888-883-9879.**

## Advanced Rooftop Unit Control Qualified Products List



Applicable to: Commercial Full ARC and ARC-Lite Retrofits  
 Effective: October 1, 2019 to September 30, 2021  
 Product List last updated: October 1, 2019

The product list is periodically updated to reflect newly qualified models. For more information, or to request that products be added to the list, please visit BPA's Trade Ally Network NW website at [tradeallynetworknw.com](http://tradeallynetworknw.com). All product additions are reviewed and accepted by Bonneville Power Administration prior to publication on the product list.

### Full ARC Retrofit:

Manufacturer	Model
<a href="#">Bes-Tech*</a>	<a href="#">Digi-RTU</a>
<a href="#">Enerfit*</a>	<a href="#">Enerfit v1 or v2 controller</a>
<a href="#">Honeywell*</a>	<a href="#">LCBS with SmartVFD and LGW1000 Gateway</a>
<a href="#">Johnson Controls*</a>	<a href="#">Verasys System with Smart Building Hub and Constant Volume Controller</a>
<a href="#">Pelican Wireless Systems*</a>	Pelican solution that includes: <ul style="list-style-type: none"> <li>• Pelican <a href="#">TS200</a> or <a href="#">TS200H</a> (with a plus50 sensor) or a <a href="#">TS250</a> or <a href="#">TS250H</a> Thermostat</li> <li>• Pelican zone controller <a href="#">Z8</a> or <a href="#">Z24</a>, or <a href="#">PEARL Economizer</a></li> <li>• <a href="#">Pelican Extended Range Wireless Gateway</a></li> </ul>
<a href="#">Transformative Wave*</a>	<a href="#">Cobalt with CATALYST</a> <a href="#">CATALYST with eIQ BMS</a>
<a href="#">Unity Energy Solutions*</a>	<a href="#">Unity solution that includes:</a> <ul style="list-style-type: none"> <li>• USC Site Controller</li> <li>• SMT400 Thermostat or M-172 PLC Controller</li> <li>• Site Support Package Subscription</li> </ul>

### ARC-Lite Retrofit:

Manufacturer	Model
<a href="#">Bes-Tech*</a>	<a href="#">Digi-RTU</a>
<a href="#">Enerfit*</a>	<a href="#">Enerfit v1 or v2 controller</a>
<a href="#">Honeywell*</a>	<a href="#">LCBS with SmartVFD</a>
<a href="#">Johnson Controls*</a>	<a href="#">Verasys System with Smart Building Hub and Constant Volume Controller</a>
<a href="#">Lennox*</a>	<a href="#">ARC with DCV</a>
<a href="#">NexRev*</a>	<a href="#">DrivePak</a>
<a href="#">Pelican Wireless Systems*</a>	Pelican solution that includes: <ul style="list-style-type: none"> <li>• Pelican <a href="#">TS200</a> or <a href="#">TS250</a> Thermostat</li> <li>• <a href="#">PEARL Economizer</a></li> <li>• <a href="#">Pelican Extended Range Wireless Gateway</a></li> </ul>
<a href="#">Transformative Wave</a>	<a href="#">CATALYST Lite</a>
<a href="#">Unity Energy Solutions*</a>	<a href="#">Unity solution that includes:</a> <ul style="list-style-type: none"> <li>• USC Site Controller</li> <li>• SMT400 Thermostat or M-172 PLC Controller</li> </ul>

\*Though not a requirement of the measure, additional features such as web-enabled monitoring and controls are beneficial to ARC retrofits. Products that allow for this option are demarcated with an asterisk above.

# Advanced Rooftop Unit Control Qualified Products List



Applicable to: Commercial Full ARC and ARC-Lite Retrofits  
Effective: October 1, 2019 to September 30, 2021  
Product List last updated October 1, 2019

Advanced Rooftop Control (ARC) retrofits add a variable frequency drive (VFD) and controls to existing, constant-speed HVAC rooftop unit (RTU) supply fans. There are two types of ARC products offered, depending on their feature sets.

## **ARC Retrofit – Lite**

ARC-Lite products add one of the following equipment options to the existing RTU:

- A VFD and controller for variable speed fan operation; or
- A multispeed motor and controller for multispeed fan operation.

## **ARC Retrofit – Full**

Full-ARC products add one of the following equipment options to the existing RTU:

- A VFD and controller for variable speed fan operation; or
- A multispeed motor and controller for multispeed fan operation.
- Digital, integrated economizer control with either differential dry-bulb, or differential enthalpy with fixed dry-bulb high-limit shutoff; and
- Demand Control Ventilation with proportional control, based on CO2 sensor readings.

Products that do not qualify for an ARC incentive may still be considered for incentives under the custom analysis path.