

# ADVANCED ROOFTOP-UNIT CONTROLS

FOR COMMERCIAL  
BUILDINGS

## Full and Lite Retrofits

OPTIMIZE PERFORMANCE  
REDUCE MAINTENANCE  
SAVE MONEY

## SAVINGS THROUGH THE ROOF

Older inefficient rooftop-units can waste thousands of dollars annually.

By retrofitting those rooftop units with Advanced Rooftop-Unit Controls (ARC), building owners and operators can save money and make their building more comfortable.

Your **local electric utility** may offer incentives of up to \$250 per ton of cooling capacity for qualifying retrofits.

### BENEFITS MAY INCLUDE



Improved  
comfort



Improved indoor  
air quality



Reduced  
fan usage



Remote energy  
monitoring and control

CONTACT YOUR LOCAL UTILITY ABOUT INCENTIVES.  
UTILITY PARTICIPATION AND INCENTIVES VARY.

## How Does It Save Energy?

ARC retrofits can reduce fan speeds up to 40% during the first stage of heating and cooling and 60% when no heating or cooling is needed.

Energy savings generally increase with higher hours of occupancy.

## Incentive Requirements

### PRE-INSTALLATION CONDITIONS:

#### The existing RTU must have the following characteristics:

- Be packaged unitary equipment (no split systems).
- Have equal to or greater than five tons of cooling capacity.
- Constant speed supply fan (RTUs with variable speed fans are not eligible).
- Heating can be electric or gas.

### POST-INSTALLATION CONDITIONS:

- Equipment must be listed on the [ARC Qualified Products List](#).

#### ARC Lite and Full retrofits must add one of the following options:

- A VFD and controller for variable speed fan operation.
- A multi-speed motor and controller for multi-speed fan operation.

#### Full ARC retrofits must additionally include:

- A controller with digital, integrated economizer control.
- Web-enabled control, monitoring and alarms.
- Demand control ventilation based on CO<sub>2</sub>



Visit [bpa.gov/tannw](http://bpa.gov/tannw) to view a Qualified Product List

## Estimated Incentives



Your local utility may offer **up to \$250 per ton** for qualifying retrofits.



A typical project payback, including incentives, is about **4-10 years**.



If your project meets the above requirements, **call your local utility or Trade Ally Network NW** today to confirm eligibility and incentives.



**TRADE ALLY NETWORK**<sup>NW</sup>  
Building Success Together

Additional terms and conditions may apply.  
Utility participation and incentives vary.

Contact Trade Ally Network NW for more information.  
[Lighting@bpa.gov](mailto:Lighting@bpa.gov) | [bpa.gov/tannw](http://bpa.gov/tannw)



Trade Ally Network NW is sponsored by Bonneville Power Administration and its Northwest Utilities.

\*Additional terms and conditions may apply. Utility participation and incentives vary.