

VARIABLE REFRIGERANT FLOW

VERIFICATION CHECKLIST FOR COMMERCIAL CUSTOMERS

Replace electric resistance heat source with variable refrigerant flow system (VRF).

QUALIFIED PRODUCT LIST (QPL) REQUIREMENT

No specification

INCENTIVE

Up to \$1,000 per ton

REQUIREMENTS

BASELINE

- New construction projects are not eligible.
- Area must be heated by zonal or forced-air electric resistance heat.

POST INSTALL

- Meets BPA's heating and cooling specifications based on equipment size.
- Has an active AHRI certificate of product rating.
- The VRF is eligible even if it operates in tandem with a ventilation system that uses any fuel for heating ventilation air.

RECOMMENDED

VERIFICATION PROCESS

- Take a photo of VRF outdoor unit(s) nameplate(s) and use to verify:
 - ◊ System meets or exceeds BPA's heating and cooling efficiency requirements
 - ◊ Total installed tons.
- Take a photo of the indoor unit's nameplate and use to verify that it has a variable speed blower (note that nearly all VRF indoor units will have a variable speed blower).

BEST PRACTICES

- Heat recovery VRF systems are capable of moving heat between zones. It is beneficial for VRF system designs for buildings with significant load diversity to enable VRF's heat recovery method. This method of HVAC design is counterintuitive for many design professionals who are familiar with variable air volume (VAV) systems because VAV systems are most efficient when they serve zones with similar heating/cooling needs.



Contact Trade Ally Network NW for more information.

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