

COMMERCIAL & MULTI-FAMILY VARIABLE REFRIGERANT FLOW (VRF) HEAT PUMP GRANTS



Historic Ashburnham Library starts a new chapter with VRF

The Stevens Memorial Library in Ashburnham is using modern variable refrigerant flow (VRF) technology to solve the challenge of heating and cooling a century-old converted school building. The library replaced both a 30-year-old hydronic heating system and an inefficient chilled-water air-conditioning system with a new, cold-climate VRF system. A&R Mechanical, Inc. of Lunenburg contributed to the preliminary design for the VRF system, which will provide approximately 255,000 BTU/hour of heating capacity and 342,000 BTU/hour of cooling capacity for the 9,675 square foot building. Since breaking ground, Royal Steam and Heater Co. has been selected to install the project. The system will feature ten separate zones and a central control system to automatically set back temperatures when the building is unoccupied.



System Requirements and Eligibility

1. Equipment must meet ASHRAE 90.1-2016 performance standards and be listed in the AHRI VRF Directory <http://bit.ly/VRF-AHRI>. (For units <65 kBTU/hr of cooling capacity, see <http://bit.ly/VSMS-AHRI>)
2. System must be designed and installed by by MassCEC approved designer and installer.
3. Property must be located in the Massachusetts electric service territory of **Eversource, National Grid, Unitil**, Ashburnham MELP, Holden MLD, Holyoke Gas & Electric, Russell MLD, or Templeton MLWP.

Grant Formula

Entity Type	VRF without Heat Recovery per 12,000 BTU/hr*	VRF with Heat Recovery per 12,000 BTU/hr*	Maximum Grant per Project*
Private	\$800	\$1,200	\$180,000
Public/Non-Profit	\$1,000	\$1,400	\$210,000
Affordable Housing	\$1,600	\$2,000	\$250,000

**Grants are based on AHRI-rated heating capacity at 17°F. Maximum grants are based on 1,800 kBTU/hr of capacity. The grant maximums in the table assume heat recovery equipment; systems without recovery will have lower maximums.*

COMMERCIAL & MULTI-FAMILY VARIABLE REFRIGERANT FLOW (VRF) HEAT PUMP INCENTIVES



How to Participate

1. Review all program requirements, including eligibility criteria for the higher-valued incentives for public/non-profit entities or for affordable housing, in the Commercial-Scale Air Source Heat Pump Program Manual, which can be found here: <http://bit.ly/ASHPResources>
2. If the project is at an existing building that has not had an energy-efficiency walkthrough completed within the last four years, schedule a free assessment with MassSave (www.masssave.com or 1-866-527-7283).
3. Find a designer and/or installer who is participating in the program <http://bit.ly/FindCInstaller>, or advise your preferred installation company that it must become a program participant.
4. Work with your designer to complete your application and submit it to ASHP@masscec.com. A completed application includes:
 - a. Application form
 - b. Project narrative (for projects ≥ 240 kBTU/hr of capacity only)
 - c. System Owner's Agreement
 - d. Preliminary system design, load calculation, and AHRI rating sheets
 - e. Electric bill (for existing buildings only)
 - f. If applicable, verification of tax exempt affordable housing status
5. Receive an award letter from MassCEC, then work with designer to finalize design and order equipment.
6. To receive first 30% of grant, submit Milestone #1 requirements to MassCEC:
 - a. Milestone #1 completion form
 - b. Updated system design, if applicable
 - c. Invoice for equipment ordered
7. Complete construction and manufacturer-assisted system startup. MassCEC also recommends full-scale commissioning or system optimization, especially for larger systems.
8. To receiving remaining 70% of grant, submit Milestone #2 requirements:
 - a. Milestone #2 completion form
 - b. Photos of installed system
 - c. Manufacturer startup sheet or commissioning report
 - d. Electric bill (for new buildings only)



<http://bit.ly/ASHPforBiz>



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