MITSUBISHI ELECTRIC

HEATING & AIR CONDITIONING

ecodanPRO CAHV

Part of the Mitsubishi Electric ecodanPRO family of air-to-water heat pump solutions, the CAHV is a high-performance, environmentally-friendly heat pump water heater.

The future of sustainable heating

- High-efficiency inverter technology
- Low-GWP (148) refrigerant R-454C
- 136,480 BTUH capacity
- Operating temperature down to -13°F
- Modular design provides flexible solutions

65% heating capacity at 5°F ambient, 158°F LWT*

Flash injection and optimized scroll compressor specifically engineered for high-temperature water production, with heating operation down to **-13°F**

The CAHV is all-electric, reducing the need for the inspections, safety measures, and maintenance related to fossil fuel combustion systems.

Flash Injection

Flash injection supplies cooler refrigerant to the compressor when the unit is working to provide heating during cold outdoor temperatures. This optimizes compressor performance as it runs at faster speeds, allowing the units to produce high-temperature water even in low temperatures.

Scroll Compressor

The scroll compressor delivers high-capacity performance across a wide ambient temperature range, from -13°F to 109°F, including up to 165°F outlet water temperatures at ambient conditions down to 14°F, ensuring year-round comfort and capacity.

Linear Expansion Valves

Two linear expansion values (LEVs) are placed in parallel to secure refrigerant circulation volume and control circuit pressure. Through the use of these two valves, refrigerant circulation is managed even in low outdoor temperatures or other complicated conditions.

Inverter Technology

Mitsubishi Electric heat pumps use inverter-driven compressors, which use variable speed technology to control the speed of the motor. This allows for precise regulation of heating and cooling output according to demand, while minimizing the amount of energy required.

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* Heating capacity based on 5° F LWT in High Efficiency mode and expressed as a percentage of nominal capacity. Values shown exclude defrost operation.