



Heating & Cooling Systems

PREFERRED™ SERIES VARIABLE-SPEED HEAT PUMP WITH PURON ADVANCE™ REFRIGERANT

The Preferred 249VAN variable-speed heat pump takes Bryant's mid-tier lineup to the next level. It delivers true industry-defined variable-speed performance resulting in energy-efficient comfort with any 24V thermostat that operates a two-stage heat pump. To unlock our patent-pending PerfectAdjust™ feature, pair it with our new IntelliSense-enabled Bryant Smart Thermostat.¹ It's a winning combination that helps deliver money-saving energy efficiency, quieter operation, more consistent indoor temperatures, and over-the-air equipment updates.

Product Features and Benefits

Efficiency

- Up to 19.0 SEER2 cooling efficiency and up to 10.0 HSPF heating efficiency (meets high-efficiency local utility rebate levels where eligible)
- Provides up to 2.3 COP at 5° F resulting in more budget-friendly heating efficiency

Technology

- Variable-speed rotary compressor
- Advanced Defrost feature
- PerfectAdjust™ feature
- IntelliSense™

Performance

- Capable of over-the-air equipment updates when paired with the IntelliSense-enabled Bryant Smart Thermostat¹
- Low sound output, as low as 57 dBA
- Enhanced dehumidification capability during cooling operation
- Heating mode operation down to -10° F
- High-ambient cooling operation up to 125° F
- Low-ambient cooling operation down to 32° F

Durability/Reliability

- Test-to-fail protocols during development
- DuraGuard™ Plus protection
- High-pressure switch
- EXV for optimum heating performance
- Suction and discharge pressure transducers

Compatibility

- Unlocks additional adaptable stages when paired with the IntelliSense-enabled Bryant Smart Thermostat¹
- Compatible with Preferred Series fan coils and gas furnaces

IntelliSense™ PuroN ADVANCE™



Model 249VAN

Model TSTATBBIEWF-01¹

	Nom Tons	SEER2 (up to)	EER2 (up to)	HSPF2 (up to)	H (in)	W (in)	Ship Weight
249VAN024*	2	19.0	14.0	10.0	35-1/2	35	245
249VAN036*	3	16.5	12.5	9.0	38-7/8	35	263
249VAN048*	4	19.0	12.5	10.0	45-11/16	35	333
249VAN060*	5	17.0	12.0	9.0	45-11/16	35	333

Advanced Defrost Feature

Advanced Defrost uses the latest heat pump sensor technology to defrost the outdoor coil only when needed.

To learn more, visit [HVACpartners > Marketing > Sales Tools > Marketing Launch Support > Product Feature Videos.](#)

Flexibility and Peace of Mind for Your Customers

Design and Installation

- Long Line applications are possible up to 250 ft (See Long Line Guide for more information)
- Hybrid Heat® dual-fuel system capable when paired with Preferred Series gas furnaces

Limited Warranty

- Ten-year parts limited warranty upon timely registration[†]

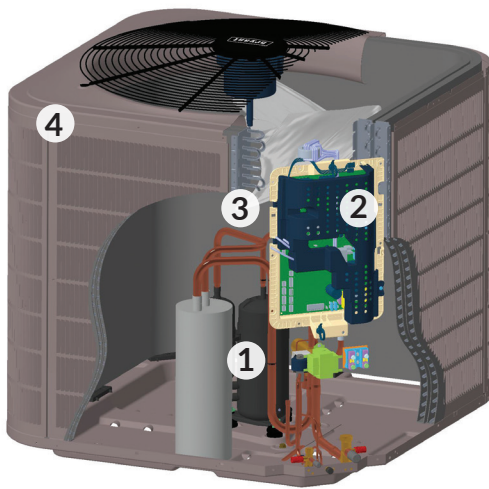
[†] Registration required. See warranty card for complete details and restrictions.

Bryant Connected Portal

- Text-based diagnostics
- System operating status
- System operation history

The Bryant Difference

If you could look under the hood of a Bryant Preferred 249VAN variable-speed heat pump, you'd see what drives the performance – a serious commitment to quality. Here are some features and functions that your customers will enjoy:



1 Variable-Speed Compressor – achieves a 25% – 100% capacity range for a rare combination of greater temperature control, enhanced summer dehumidification, and energy savings.

2 Air-Cooled VFD (Variable Frequency Drive) – controls compressor operation to help deliver up to 19.0 SEER2.*

* Depending on sizing and equipment combinations

3 Quiet Operation – includes an aerodynamic top to quietly cool your home. The VFD-controlled variable-speed compressor fine-tunes performance as conditions change, resulting in sound output as low as 57 dBA.

4 Built-in Reliability/Durability – provides lasting performance protection with a high-pressure switch, outdoor pressure transducers, EXV, and our DuraGuard Plus protection package with a steel louvered coil guard and baked-on powder paint.

Key Service and Technology Features

✔ Over-the-Air Software Updates

For the latest performance enhancements, the Preferred 249VAN variable-speed heat pump can receive over-the-air software updates through the new IntelliSense-enabled Bryant Smart Thermostat (model TSTATBBIEWF-01).^{1,2}

✔ Advanced Diagnostics and Interactive Troubleshooting

The Preferred 249VAN variable-speed heat pump includes more than 125 specific-source fault codes, meaning less guessing and less “parts changing.” You can quickly assess and troubleshoot the system remotely via our digital tools allowing you to send the right technician to the job site.

✔ PerfectAdjust Feature

To unlock more precise adaptable stages, pair the Preferred 249VAN variable-speed heat pump with our new IntelliSense-enabled Bryant Smart Thermostat (model TSTATBBIEWF-01).¹ This pairing allows the 249VAN heat pump to operate from five adaptable stages to 21 adaptable stages.

✔ IntelliSense-Enabled

Sensors added to the Preferred 249VAN variable-speed heat pump monitor operation and help collect critical data when paired with the IntelliSense-enabled Bryant Smart Thermostat.³ You can use the data to better assess the health of your customer's system through the Connected Portal and Service Tech app.

¹ U.S. only, estimated availability in Canada: Q3, 2026

² Thermostat must be connected to the Internet through a Wi-Fi® network.

³ Homeowner permissions to data sharing required.

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