

# Tempstar® Split System Heat Pumps



SmartComfort® Series  
TSH4/TSH5/TCH6/TVH8

**TEMPSTAR®**  
Heating and Cooling Products  
Quality you can feel.



## BUILT WITH STRENGTH

When you choose Tempstar® heating and cooling equipment, you're choosing dependability and innovation in home comfort. We are proud to give you the latest in engineering and technology. Each unit is 100% run tested, and we design our products to give you the best in quality, energy efficiency and reliability. We take pride in surpassing your expectations and delivering quality you can feel.

## BACKED BY EXCEPTIONAL WARRANTIES

The only No Hassle Replacement™ limited warranty that you'll find in the industry backs every Tempstar SmartComfort® product. It means comfort with no questions. We'll replace your unit if the compressor or coil fails within the covered period. We give you extra coverage in addition to a 10-year parts and compressor limited warranty.\*



## SMARTCOMFORT® HEAT PUMPS

The SmartComfort heat pump series offers our best comfort in every season, from the highest featured Observer® communicating system to the budget-friendly with single- and two-stage scroll compressors, as well as variable-speed compressors, multi-speed fan motors, and sound-reducing compressor jackets.

\*To the original owner, Tempstar products are covered by a 10-year parts limited warranty upon timely registration. The limited warranty period is 5 years if not registered within 90 days of installation. Jurisdictions where warranty benefits cannot be conditioned on registration will automatically receive a 10-year parts limited warranty. See warranty certificate for complete details.

## WHAT IS A SPLIT SYSTEM HEAT PUMP?

Tempstar split system heat pumps are designed for the best durability and comfort. Properly matched combinations of an outdoor heat pump and a separate indoor unit can be customized to provide cooling, electric heating, and/or gas heating. By combining the appropriate indoor unit with a matching outdoor unit, various combinations of cooling and heating methods can be created for the optimal combination of comfort, efficiency and economy.



Heat Pump

## WHAT SETS TEMPSTAR® HEAT PUMPS APART?

- 1. Quiet**—The two-stage scroll compressor (TCH6 only) operates most of the time at the quieter, lower stage, changing over to the higher stage only when necessary. A deluxe sound blanket also reduces compressor sound levels.
- 2. Durable**—The painted, galvanized steel cabinet features a powder-coat, baked-on finish over galvanized steel with narrower spacing to provide maximum protection. It allows for proper airflow and easy coil cleaning.
- 3. Efficient**—The scroll compressor and the 7 mm copper tubing with aluminum fin coils work collectively to save on energy.
- 4. Smooth Operation**—The variable-speed fan motor (TVH8 only) operates most of the time at the quieter, lower speed. Aerodynamic air discharge design reduces operating sounds.
- 5. Observer® Communicating Wall Control**—SmartComfort heat pumps can be teamed with our innovative Observer communicating thermostat, offering full-color touchscreen technology, and matched with Tempstar communicating gas furnaces and fan coils to create maximum efficiency and ideal comfort.

## WHAT MATTERS IN A SPLIT SYSTEM HEAT PUMP?

Get the most out of a split system by choosing the heat pump that fits your comfort needs. All of our heat pumps include comfort-enhancing and durable features to deliver lasting performance. For the maximum combination of comfort, efficiency and convenience, ask about our Observer communicating system models with Wi-Fi® capability. For greater efficiency in a unit, look for two-stage or variable-speed compressor operation. Our toughest and quietest outdoor units feature wire hail guard grilles, corner posts, and compressor sound jackets. And our No Hassle Replacement limited warranty is offered on our premium products to give you peace of mind. Tempstar split system heat pumps offer energy efficiency, increased comfort, durable performance, and quiet operation.

## EFFICIENCY RATINGS—WHAT DO THEY MEAN?

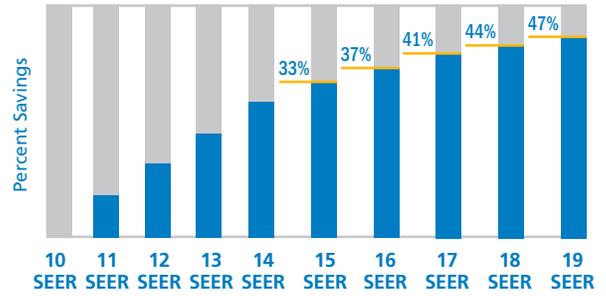
**Seasonal Energy Efficiency Ratio (SEER)**—Measures the cooling efficiency of air conditioners and heat pumps during an average cooling season. The higher the SEER, the greater the energy economy.

**Heating Seasonal Performance Factor (HSPF)**—Measures the heating efficiency of heat pumps. The higher the HSPF, the greater the efficiency and energy savings potential during heat pump heating.

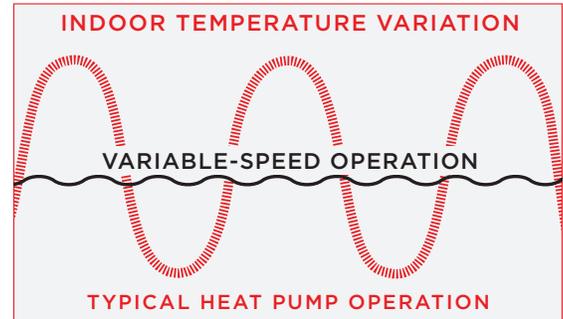
**Energy Efficiency Rating (EER)**—Measures the cooling efficiency of air conditioners and heat pumps during a set temperature (95° F).

**ENERGY STAR®** —A U.S. Environmental Protection Agency program to identify and promote energy-efficient products in order to reduce energy consumption.

## SEER vs. Cooling Cost Savings



Percentage based on national averages at 10 SEER; may vary according to efficiency of current unit and installation.



### TSH4 SMARTCOMFORT® 14 HEAT PUMP

- 14 SEER/12.2 EER cooling
- Up to 8.2 HSPF heating
- Efficient single-stage scroll compressor
- Communicating capability
- 1-year No Hassle Replacement™ limited warranty
- 10-year parts limited warranty (upon timely registration)



### TSH5 SMARTCOMFORT® 15 HEAT PUMP

- Up to 16 SEER/13 EER cooling
- Up to 9 HSPF heating
- Efficient single-stage scroll compressor
- Communicating capability
- 5-year No Hassle Replacement™ limited warranty
- 10-year parts limited warranty (upon timely registration)



### TCH6 SMARTCOMFORT® DELUXE 16 TWO-STAGE HEAT PUMP

- Up to 17.5 SEER/13.5 EER cooling
- Up to 9.5 HSPF heating
- Two-stage compressor for improved temperature and summer humidity control
- Communicating capability
- 10-year No Hassle Replacement™ limited warranty
- 10-year parts limited warranty (upon timely registration)



### TVH8 SMARTCOMFORT® DELUXE 18 HEAT PUMP WITH SMARTSENSE™ TECHNOLOGY

- Up to 19 SEER cooling
- Up to 11 HSPF heating
- Variable-speed compressor for the ultimate in quiet and efficient operation
- Superior summer dehumidification
- High leaving air temperatures in the cold months for increased comfort
- Multi-speed fan motor for even temperatures
- Communicating capability
- 10-year No Hassle Replacement™ limited warranty
- 10-year parts limited warranty (upon timely registration)



	SMARTCOMFORT® DELUXE		SMARTCOMFORT®	
Tempstar® Split System Air Conditioner Options	TVA9	TCA7	TSA6	TSA5
Tempstar® Split System Heat Pump Options	TVH8	TCH6	TSH5	TSH4
Comfort Features				
Summer Dehumidification	Best	Best	Better	Better
Temperature Control	Best	Best	Better	Better
Efficiency				
Cooling SEER	Up to 19	Up to 17.5	Up to 16	Up to 15
Electric Heating HSPF (Heat Pumps only)	Up to 11	Up to 9.5	Up to 9	Up to 8.2
Design Features				
Observer® Communicating System Compatible (When Installed with Observer Wall Control with Wi-Fi®)	•	•	•	•
Compressor Stages	Variable	2	1	1
Compressor Sound Jacket	•	•	•	•
Multi-Speed Fan Motor	•			
Peace of Mind				
10-Year Parts Limited Warranty	•	•	•	•
No Hassle Replacement™ Limited Warranty	10-yr	10-yr	5-yr	1-yr

Many models are ENERGY STAR® qualified. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).

Timely registration required for 10 year parts limited warranty. Limited warranty period is 5 years for parts if not registered within 90 days of installation. Jurisdictions where warranty benefits cannot be conditioned on registration will receive the registered limited warranty periods. Please see warranty certificate for further details and restrictions.

All systems tested and listed by the appropriate agencies.



ISO 9001: 2000 Registered



**TEMPSTAR®**  
Heating and Cooling Products

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