

TEMPSTAR®

Heating and Cooling Products

SmartComfort® EC 97
Variable-Speed
Modulating Gas Furnace
Featuring The Observer™
Communicating System



Tempstar® SmartComfort® EC 97 Variable-Speed Modulating Gas Furnace

Featuring The Observer™ Communicating System

Tempstar® professionals take pride in bringing you the latest technology in home comfort, with the goal of surpassing your expectations in energy efficiency and dependability. From engineering and design to industry-leading warranties, we are dedicated to always delivering quality you can feel.



Communicating Comfort

The Tempstar® SmartComfort® EC 97 Variable-Speed Modulating Gas Furnace featuring the Observer™ communicating system is designed to take your home to a new level of comfort and efficiency. Teamed with our Observer communicating wall control and the appropriate air conditioner and indoor coil, the SmartComfort EC 97 functions as part of a complete communicating home comfort system. Various components of the system “talk” to each other electronically, fine-tuning comfort levels while maximizing energy savings.



1



Reliable Direct hot surface ignition system features an advanced silicon nitride igniter and in-shot burners for greater reliability.

2



Safe Temperature limit control, reliable gas valve and induced draft motor all help ensure safe operation.

3



Quiet Solid pre-painted steel insulated cabinet with tight-fit door latch system, blower motor isolated behind a sealed door, and soft-mount rubber gaskets on key components lower operating sounds.

4



Efficiency ECM variable-speed blower motor provides efficiency. The SmartComfort EC 97 is also compatible with two-stage cooling, and its advanced dehumidification capability can reduce additional moisture in the air when paired with an air conditioner or heat pump and a humidity-sensing thermostat.

5



System Control State-of-the-art electronic controls monitor system operation and allow for faster, easier system diagnostics.

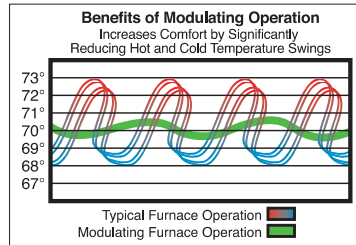


Observer™ Communicating Wall Control The SmartComfort EC 97 is teamed with our innovative Observer communicating wall control. It offers full-color touchscreen technology and coordinates with compatible furnace, air conditioner and system accessories to create maximum efficiency and ideal comfort.



Custom Comfort

Unlike single-stage furnaces—which heat up fast and shut down fast, creating noticeable swings in temperature—the SmartComfort EC 97 delivers consistent heat and overall comfort. When paired with a compatible thermostat, the modulating heat system operates at lower heat levels most of the time and automatically modulates to the higher heat production if temperatures drop. The variable-speed blower motor can also help increase comfort by maximizing moisture removal⁴ during cooling (air conditioner) operation. And the high efficiency blower motor can be run continuously to improve indoor air quality.



⁴Used with a humidity-sensing thermostat or dehumidistat.

The Quiet One

The sturdy steel cabinet is thermal lined and insulated to reduce the amount of heat and operating noise that escapes. A sealed blower compartment, soft-mount components, and the variable-speed blower motor also reduce operating sounds. When matched with select Tempstar air conditioners and evaporator coils, the ECM variable-speed blower motor can also boost cooling efficiency for increased SEER[†] rating.[§]

[†]SEER stands for Seasonal Energy Efficiency Ratio.

[§]As compared to the Air-Conditioning, Heating and Refrigeration Institute's standard coil-only rating.



Exceptional Furnace, Exceptional Warranties

Tempstar units are backed by exceptional warranties, including our No Hassle Replacement[™] limited warranty, which gives the original purchaser a replacement unit if the heat exchanger should fail due to defect within the first ten years. Upon timely registration, you also get a 10 year parts limited warranty and a lifetime limited warranty on the heat exchanger.*

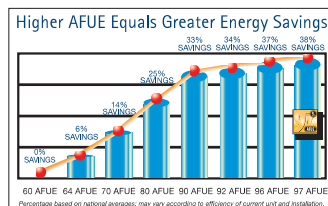


*Limited warranty period is 5 years for parts and 20 years for heat exchanger if not registered within 90 days of installation. Jurisdictions where warranty benefits cannot be conditioned on registration will receive the registered limited warranty periods. Please see warranty certificate for further details and restrictions.

The Heart of Quality

The heart of every furnace is the heat exchanger. The proven RPJ[®] (Rigid Press Joint) heat exchanger is designed to move more heat to the outside surface for increased heat transfer. The weld-free interlocking clamshell design reduces cracking or separating over the life of the gas furnace. The RPJ heat exchanger plays a significant role in boosting this model's efficiency to a 97% AFUE[‡] rating. So you can count on energy savings, especially compared to an older, less efficient furnace.

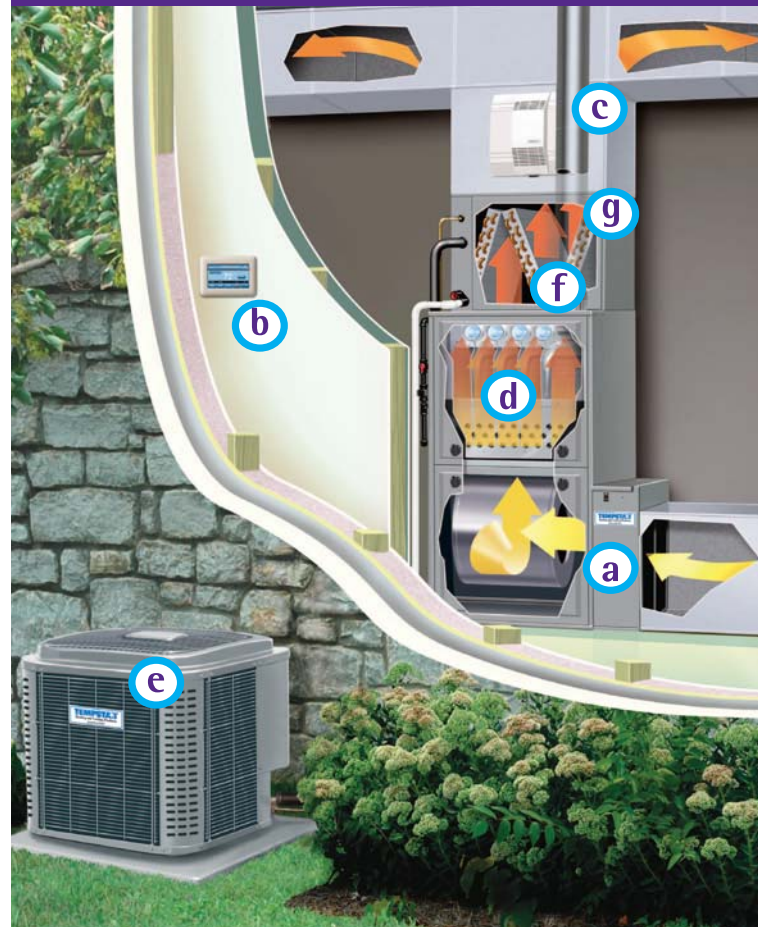
[‡]AFUE stands for Annual Fuel Utilization Efficiency.



Complete Line, Complete Comfort

A completely integrated system of Tempstar heating and cooling products can maximize comfort and efficiency.

- a** **AIR CLEANER**
filters out many indoor air pollutants so the air in your home is cleaner.
- b** **FULL-COLOR TOUCHSCREEN OBSERVER™ COMMUNICATING WALL CONTROL**
allows you to customize heating and cooling levels and can also save energy.
- c** **HUMIDIFIER**
enhances comfort by reducing dryness in the air.
- d** **COMPATIBLE COMMUNICATING GAS FURNACE**
for maximum comfort and efficiency; seamlessly integrates with Observer communicating wall control to create ideal warmth and energy savings.
- e** **COMPATIBLE COMMUNICATING AIR CONDITIONER**
integrates seamlessly with Observer communicating wall control to optimize cool comfort and energy-saving operation.
- f** **EVAPORATOR/ INDOOR COIL**
matches your Tempstar air conditioner and furnace to ensure great performance.
- g** **UV LIGHTS**
help prevent the growth of microbes on the coils. (Not available on all models.)



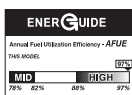
Tempstar Gas Furnace Comparison	MAINLINE MODELS								
	XS 80	IIS 80	VS 80	DLX 96	IIX 96	VT 96	VC 97	ET 96	EC 97
MODEL SERIES	F8MX	F8MT	F8MV	F9MXE	F9MXT	F9MVT	F9MAC	F9MVE	F9MAE
AFUE RATING	80%	80%	80%	96%	96%	96%	97%	96%	97%
HEAT EXCHANGER WARRANTY [†]	20YR	20YR	20YR	LIFE TIME	LIFE TIME	LIFE TIME	LIFE TIME	LIFE TIME	LIFE TIME
NO HASSLE REPLACEMENT™ Limited Warranty	1YR	5YR	10YR	1YR	5YR	10YR	10YR	10YR	10YR
PARTS WARRANTY [†]	10YR	10YR	10YR	10YR	10YR	10YR	10YR	10YR	10YR
MODULATING OPERATION Multiple Heat Modes	●	●	●	●	●	●	●	●	●
TWO-STAGE OPERATION Self-adjusting heat modes	●	●	●	●	●	●	●	●	●
TWO-STAGE COOLING Compatible	●	●	●	●	●	●	●	●	●
ADVANCED DEHUMIDIFICATION CAPABILITY	●	●	●	●	●	●	●	●	●
STAINLESS STEEL RPJ® Weld-Free Heat Exchanger	●	●	●	●	●	●	●	●	●
ALUMINIZED STEEL RPJ® Weld-Free Heat Exchanger	●	●	●	●	●	●	●	●	●
VARIABLE-SPEED HIGH EFFICIENCY ECM Circulation Blower Motor	●	●	●	●	●	●	●	●	●
HIGH EFFICIENCY ECM Circulation Blower Motor	●	●	●	●	●	●	●	●	●
STANDARD PSC Circulation Blower Motor	●	●	●	●	●	●	●	●	●
INSULATED BLOWER COMPARTMENT	●	●	●	●	●	●	●	●	●
CABINET HEIGHT	33½"	33½"	33½"	35"	35"	35"	35"	35"	35"
LOW NOX Available	●	●	●	●	●	●	●	●	●
DUAL FUEL COMPATIBLE with Dual Fuel Thermostat	●	●	●	●	●	●	●	●	●

[†]Many models are ENERGY STAR® qualified. Ask your contractor for details or visit www.energystar.gov.

*AFUE stands for Annual Fuel Utilization Efficiency. Higher number = Greater efficiency.

[†]Timely registration required for 10 year limited parts warranty and lifetime limited heat exchanger warranty. Limited warranty period is 5 years for parts and 20 years for heat exchanger 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

As part of its commitment to quality, International Comfort Products, LLC, reserves the right to change specifications on its products without notice. Illustrations and photographs in this brochure are only representative. Some product models may vary.

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QUALITY YOU CAN FEEL™

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Tempstar.com