NuTone®



Want more efficient cooling? Look to a more efficient furnace.



iSEER®

Technical Overview for HVAC Contractors

ecoLogic® iQDrive

NuTone®



The efficiency homeowners want in a package you'll want to install.

NuTone's two-stage iSEER® furnaces have an extra benefit – they also boost cooling efficiency by up to 1 SEER point.

This extra energy savings is thanks to a highly efficient brushless DC motor. Of course, iSEER isn't the only cool thing about NuTone's furnace lineup. To see all the installation and comfort features, visit www.nutonehvac.com or contact your distributor.



iSEER makes servicing a snap.



iSEER offers you benefits beyond efficiency. The moisture-resistant controller is easy to access. Unlike other ECM motors, iSEER has its electronic controller separate from the motor to increase serviceability.

Here are some other important features of NuTone's iSEER furnaces:

- **Unmatched flexibility** – fixed-speed, two-stage furnaces featuring iSEER can be easily upgraded to variable-speed iSEER by changing a control board. There is no need to remove the blower housing.
- **Sound reduction** – the iSEER three-phase motor design produces a very low torque wave. Because the motor ramps up to speed, it minimizes the abrupt change in sound found when an induction (PSC) motor cycles on and off.
- **Self-adapting airflow** – on variable-speed models, NuTone's constant flow technology (patent pending) can be modified to deliver constant airflow into a broad range of external pressures in an air distribution system. And with iSEER, there is no need for external sensors.
- **Improved air distribution** – with the constant airflow provided by variable-speed iSEER, air distribution is improved throughout the static pressure range, which helps compensate for restrictive ducts.
- **Improved indoor air quality** – when run on low-speed constant fan and in combination with high efficiency air filters, variable-speed iSEER models reduce hot and cold spots in the home.





iSEER® is available in these reliable NuTone models.

Models can be vented horizontally or vertically and come in upflow and downflow configurations.

80% AFUE
two-stage
fixed-speed

80% AFUE
two-stage
variable-speed



95.1% AFUE
two-stage
fixed-speed

95.1% AFUE
two-stage
variable-speed
ecoLogic®



97+% AFUE
iQ Drive®
fully modulating
upflow furnace
ecoLogic®



ecoLogic®

Two-stage, variable-speed 95.1% AFUE and 97+% AFUE iQ Drive modulating qualify for the ecoLogic® green seal.

The technology behind the SEER.

NuTone's iSEER is possible because of the ultra-high efficiency, microprocessor-controlled brushless DC motor utilizing proven ECM (Electronically Commutated Motor) technology in conjunction with advanced controls developed specifically for this application. When paired with a matched 13- or 14-SEER outdoor unit, NuTone iSEER two-stage furnaces can increase SEER up to one point. No additional kits are needed.

MOTOR COMPARISON CHART

	PSC	GE X13 (Regal-Beloit)	GE ECM (Regal-Beloit)	Fixed-Speed iSEER®	Variable-Speed iSEER®
Technology	Induction Motor	Brushless DC	Brushless DC	Brushless DC	Brushless DC
Speeds	1 to 4	5	8 heating 12 cooling	16 heating 16 cooling	8 heating 16 cooling
Speed Range (RPM)	800-1100	600-1100	300-1200	350-1350	350-1350
Climate Profiles	No	No	Yes	Yes	Yes
Intelligent Controls	No	Constant torque	Constant airflow	Constant torque	Constant airflow
Peak Motor Efficiency	59%	80%	80%	80%	80%
iQ Drive® Ready	No	No	No	No	Yes
Summary	No features, base product	Limited features, high efficiency	Full features, maximum efficiency	Limited features, high efficiency	Full features, maximum efficiency

The NuTone product line features the above motors on various products.
NuTone two-stage and modulating gas furnaces exclusively feature iSEER products.

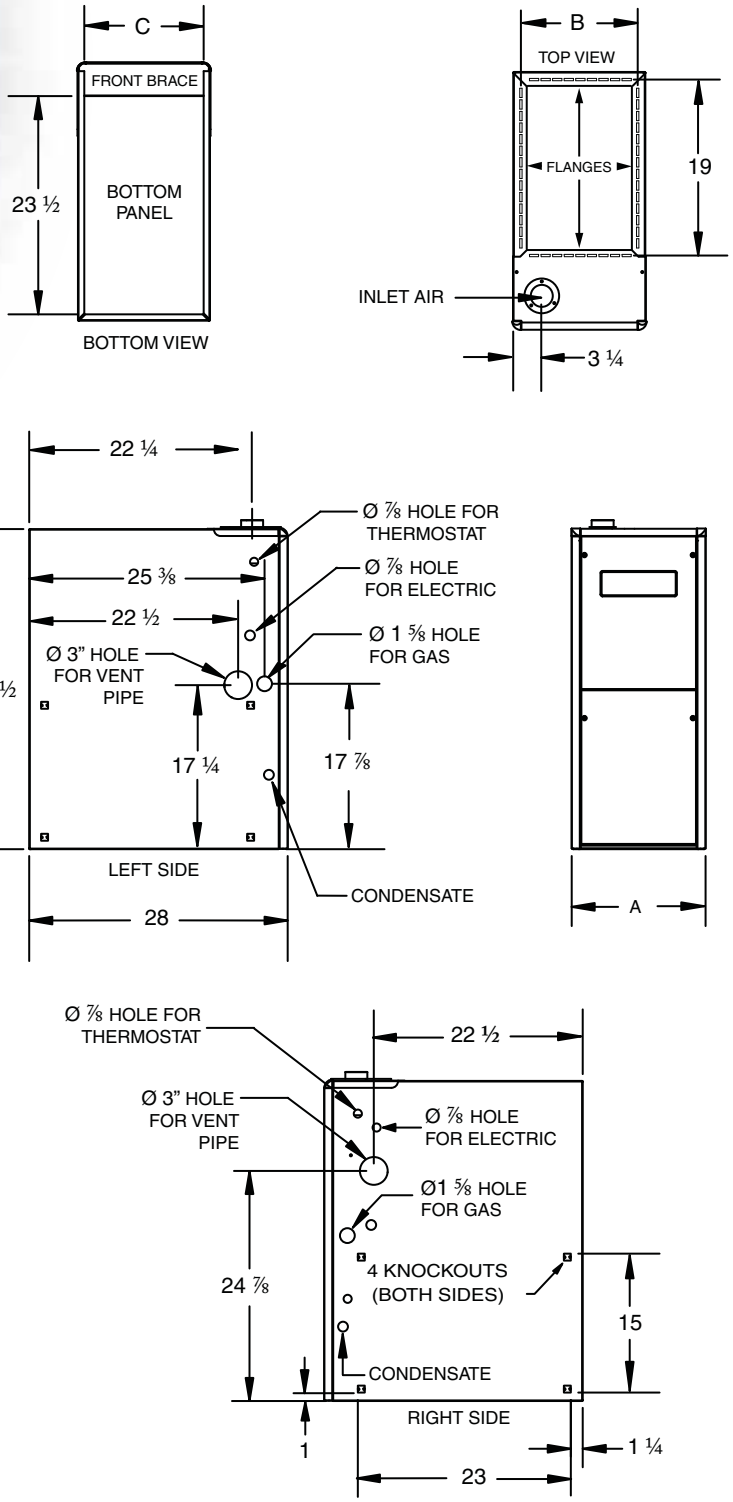
iSEER® is just one cool part of the NuTone furnace lineup.

At just under 35 inches tall, this line of NuTone furnaces gets right down to business. They've been completely rethought, from the inside out, with features that make them incredibly easy to service even with the smaller size. Plus, an attractive appearance, sound reduction and a brand name homeowners trust make them just as easy to sell.

NuTone furnaces are available in the following models. Most can be vented horizontally or vertically and come in upflow and downflow configurations.

- **80% AFUE single-stage, fixed-speed**
- **80% AFUE two-stage, fixed-speed (iSEER)**
- **80% AFUE two-stage, variable-speed (iSEER, iQ Drive® Ready)**
- **92.1% AFUE single-stage, fixed-speed**
- **95% AFUE single-stage, fixed-speed**
- **95.1% AFUE two-stage, fixed-speed (iSEER)**
- **95.1% AFUE two-stage, variable-speed (iSEER, iQ Drive Ready, ecoLogic®)**
- **97+% AFUE iQ Drive fully modulating (iSEER, iQ Drive Ready, ecoLogic)**

Find out what NuTone furnaces can do for you. Visit www.nutonehvac.com or contact your distributor to learn more.



iQ Drive® READY

iQ Drive Ready furnaces are fully compatible with the iQ Drive air conditioner and heat pump systems. No additional kits are needed.

NuTone®

Heating and Cooling Products

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www.nutonehvac.com

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988C-0414