

# NuTone®



iQ Drive® up to 25.5 SEER ultra high-efficiency  
AIR CONDITIONERS and HEAT PUMPS SYSTEMS





## THE IMPORTANCE OF BEING UP TO 25.5 SEER

Seasonal Energy Efficiency Ratio (SEER) is the unit in which air conditioning and heat pump efficiency is measured. In the world of cooling, the higher the SEER, the better the efficiency, and the lower your power bills. While most homes built in the last 10 years have 8 to 10 SEER air conditioners, NuTone has achieved up to 25.5 SEER in air conditioning and up to 22 SEER in an air-source heat pump.

Just a few of the many benefits include:

- **Lower energy bills**
- **Reduced hot and cold spots**
- **Better dehumidification**
- **Ultra-low sound levels**

- **Ramps up gently, eliminating uncomfortable temperature swings**
- **Eliminates noisy on/off cycles**
- **Continuous air flow improves filtration and humidity control**
- **Balances temperatures and minimizes hot and cold spots**

**So smart, its iQ delivers ultra-high energy efficiency.**

iQ Drive® is the brains behind the NuTone® Ultra-Efficient Comfort System. It utilizes inverter rotary technology to achieve some of the highest efficiency levels available today. Traditional compressors just turn on and off – operating at 60 hertz when running. But iQ Drive inverter

technology has almost infinite modulation for a perfectly even variance. It runs as low as 15 hertz, so it uses less power. While today's compressors kick on at full speed to compensate for a small change in temperature, iQ Drive inverter technology alters the compressor speed just enough to match the slightest change in air temperature. In addition to minimal power utilization, you get a more consistent temperature level – and fewer hot and cold spots – at all times.

- 1** The iQ Drive rotary compressor operates at 900 rpm for ultra-low power efficiency and an ultra-low noise level as compared to traditional compressors.
- 2** NuTone full metal jacket protects the coil from damage by weather and flying debris. NuTone solid construction features a Silicone protective polyurethane coating that passed a 950-hour salt spray test for harsher climates. It protects your unit from corrosion 50% more than standard outdoor finishes.
- 3** The iQ Drive inverter board regulates the compressor at all times to achieve ultra-high efficiency levels.

iQ Drive air conditioner cutaway view shown



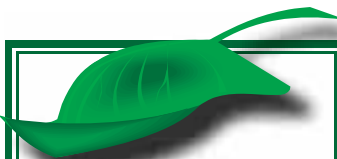




## So quiet, you may forget you have it.

The NuTone iQ Drive System is not just efficient, it also delivers ultra-low sound levels – as quiet as 59 dBA.

Today’s traditional compressors operate at 3,600 rpm power. So even with sound-reduction features, they make enough noise to be heard inside the home.

In comparison, the NuTone iQ Drive rotary compressor can ramp down to 900 rpm for ultra-low power efficiency and an ultra-low noise level. That makes for a quieter home, especially at night.



		Efficiency with Air Handler	Efficiency with Gas Furnace	
Up to 25.5 SEER iQ Drive® Air Conditioner	✓	up to 25.5 SEER	up to 23 SEER	✓
Up to 22 SEER iQ Drive® Heat Pump	✓	up to 22 SEER 10.0 HSPF	up to 20 SEER 10.0 HSPF	✓
20 SEER iQ Drive® Air Conditioner		20 SEER	20 SEER	✓
Up to 19 SEER iQ Drive® Heat Pump		up to 19 SEER 10.0 HSPF	up to 19 SEER 10.0 HSPF	✓

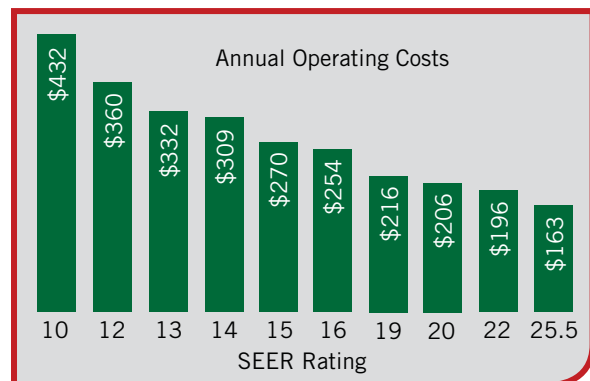
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## How much will you save?

### Heat Pump or Air Conditioner?

The iQ Drive air conditioner is an excellent choice for geographies where maximum cooling efficiency is needed. In areas where heating efficiency is also desired, consider one of the iQ Drive heat pumps.

They operate in the summer the same as an air conditioner, but also provide heat in the winter. And with an HSPF (Heating Season Performance Factor) up to 10.0, they're incredibly efficient no matter what the weather.



Annual costs based on 36,000 Btu unit, 1500 cooling load hours, and .08/kwh. Actual costs may vary depending on climate conditions, energy rates and patterns of usage.

## SMART AND SIMPLE CONTROLLER: For iQ Drive® Air Conditioners or iQ Drive Heat Pumps\*

The NuTone iQ Drive System uses a special display-screen controller with the ultimate in new, quick-response features.

**Dehumidification Mode** – This setting quickly zaps moisture from the air and works to regulate humidity levels throughout the home with a selectable dehumidification level.

**Complete System Monitoring** – On-board diagnostics and service settings for operational system commands and service notifications.

- Screen messages for error codes, filter cleaning or change notifications and other service reminders
- Component performance for motors, refrigerant level, and inverter output and temperature

**Programmable Comfort Schedules** – This feature gives you the ability to program a perfect comfort schedule to control specific functions at precise times of the day.

- Five and 2- or 7-day program capabilities
- 2 or 4 setback periods available
- Programmable blower operation



### NuTone iQ Drive® indoor section.

The indoor section of this system is either the NuTone variable-speed furnace and coil or variable-speed air handler. The furnace blower and coil will circulate air throughout the home year-round and the air handler will circulate air throughout the home in the summer to provide a more even temperature. It reduces hot and cold spots, while improving indoor air quality and precise humidity control. Choose from high efficiency NuTone iQ Drive Ready gas furnaces for optimum heating performance, including the 97+% AFUE iQ Drive modulating furnace. Your contractor can help you choose the appropriate NuTone furnace for your iQ Drive System.

\* Optional on 20 SEER iQ Drive air conditioners and up to 19 SEER iQ Drive heat pump models.



# FOR ULTIMATE COMFORT, CONSIDER iQZone

iQ Zone™ works hand-in-hand with your up to 25.5 iQ Drive® air conditioner and up to 22 SEER iQ Drive heat pump system to create separate comfort zones in your home. Now you can easily have the bedrooms cooler than the kitchen, or the rarely used den a different temperature than the family room. It's your home. Customize it to your comfort.

iQ Zone offers these benefits.

- Independent temperature control in up to 8 zones served by one unit.
- May increase energy savings.

Ask your NuTone contractor for details on iQ Zone or visit [www.nutonehvac.com](http://www.nutonehvac.com).



## Making your complete-comfort system truly complete.

The NuTone® iQ Drive system is designed to work with other NuTone accessories. Ask about whole-home humidifiers, air cleaners, HEPA systems and more. If allergens, dust, mold, pet odor, dry air, temperature control and other irritants are a problem for you or your family members, ask us how we can design a NuTone system to reduce common irritants and increase comfort throughout the home for everyone.



## The benefits of variable-speed vs. fixed-speed.

Conventional fixed-speed system shuts on and off at full output only

- Uses more energy
- Creates uncomfortable temperature swings
- Produces hot and cold spots
- More contaminants in air due to less filtration
- Reduced humidity control

Advanced variable-speed system runs continuously, adjusting output to match conditions

- Uses less energy
- Ramps up gently, eliminating uncomfortable temperature swings
- Eliminates noisy on/off cycles
- Continuous air flow improves filtration and humidity control
- Balances temperatures and minimizes hot and cold spots



## iQ Drive® Air Conditioner

Up to 25.5 SEER with Air Handler

Up to 23 SEER with Gas Furnace

- 40-118% modulation
- 59-72 dBA sound levels

Available with

- iQ Drive Modulating 97+ AFUE Gas Furnace
- Two-Stage, Variable-Speed 95.1 AFUE Gas Furnace
- Two-Stage, Variable-Speed 80 AFUE Gas Furnace



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## iQ Drive® Heat Pump

Up to 22 SEER/10.0 HSPF with Air Handler

Up to 20 SEER/10.0 HSPF with Gas Furnace

- 40-118% modulation
- 59-72 dBA sound levels

Available with

- iQ Drive Modulating 97+ AFUE Gas Furnace
- Two-Stage, Variable-Speed 95.1 AFUE Gas Furnace
- Two-Stage, Variable-Speed 80 AFUE Gas Furnace



## iQ Drive® Air Conditioner

Up to 20 SEER with Air Handler

Up to 20 SEER with Gas Furnace

## iQ Drive® Heat Pump

Up to 19 SEER/10.0 HSPF with Air Handler

Up to 19 SEER/10.0 HSPF with Gas Furnace

- 49-118% modulation
- 59-73 dBA sound levels

Available with

- iQ Drive Modulating 97+ AFUE Gas Furnace
- Two-Stage, Variable-Speed 95.1 AFUE Gas Furnace
- Two-Stage, Variable-Speed 80 AFUE Gas Furnace





## Breathe Easy, Save Big

Running a cooling system continuously on a thermostat's "fan setting" has obvious benefits. Besides optimizing indoor air comfort, a variable-speed system uses 80% less electricity over conventional motors. Ultimately, this can add up to hundreds of dollars in savings each year. So you can breathe easier, especially when utility bills come due.

### Helping to save Mother Earth.

Awarded by the U.S. Department of Energy and the Environmental Protection Agency for helping to conserve energy, promote cleaner air, and prevent global warming. To qualify, split system air conditioners and heat pumps must have a Seasonal Energy Efficiency Ratio (SEER) rating of 14.5 or higher and an Energy Efficiency Rating (EER) of 12.0 or higher. Heat pumps are ENERGY STAR® rated by a Heating Seasonal Performance Factor (HSPF) of 8.2 or higher.



NuTone iQ Drive Systems are the most energy-efficient, environmentally responsible products we offer. Look for the ecoLogic® seal.

### Energy definitions.

#### **SEER—Seasonal Energy Efficiency Ratio**

Measures cooling performance on air conditioners, heat pumps and gas/electric package product.

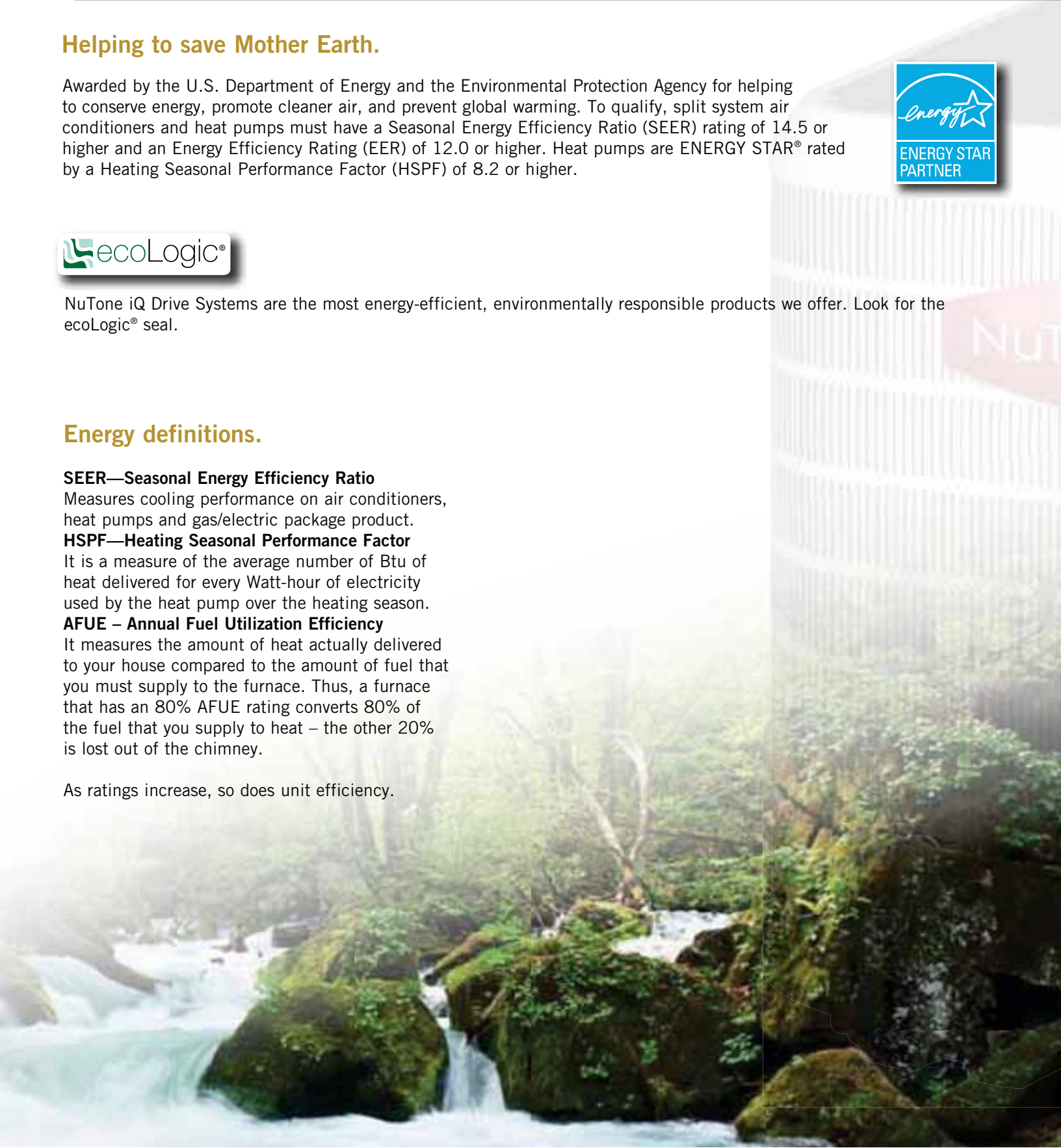
#### **HSPF—Heating Seasonal Performance Factor**

It is a measure of the average number of Btu of heat delivered for every Watt-hour of electricity used by the heat pump over the heating season.

#### **AFUE – Annual Fuel Utilization Efficiency**

It measures the amount of heat actually delivered to your house compared to the amount of fuel that you must supply to the furnace. Thus, a furnace that has an 80% AFUE rating converts 80% of the fuel that you supply to heat – the other 20% is lost out of the chimney.

As ratings increase, so does unit efficiency.



# NuTone 10-Year Limited Warranty

## 10-Year All Parts

When a product is truly built to exacting standards of quality and durability, the manufacturer's confidence is reflected in its warranty. NuTone heating and cooling products offer one of the best warranties in the business — 10 years on all parts when product is registered. See warranty details for more information.

## 10-Year NuTone Quality Pledge

If the heat exchanger (the major component of your furnace) or the compressor (the most important part of your air conditioner and heat pump) fails within the first 10 years when registered, we'll replace the product with like product under the NuTone Quality Pledge program. A matched system is required to qualify for the NuTone Quality Pledge.

## Limited Lifetime Heat Exchanger Warranty

When you register your new NuTone furnace or gas/electric packaged system, we will also extend the heat exchanger warranty from 20 years to the limited lifetime heat exchanger warranty.

## 10-Year on Air Handlers & Coils

When you install and register your new NuTone air handler or coil with your new NuTone system, we will also extend the warranty to the 10-Year Limited Parts Warranty.

## 10-Year on Indoor Air Quality Products & Zoning Products

When you install and register any of our NuTone Indoor Air Quality or Zoning with your new NuTone system, we will also extend the accessory warranties to the 10-Year Limited Parts Warranty.

## Commercial Applications

Equipment utilized in commercial applications carries a 1-Year parts warranty, 5-Year compressor warranty and a 10-Year heat exchanger warranty.

## Warranty Registration

To assure you take advantage of these longer warranties, register your system within 60 days of installation (or within 60 days of occupancy of a new residentially constructed home with these products) at [www.nutonehvac.com](http://www.nutonehvac.com). See warranty details for more information.

## Extended Warranty Protection

While your NuTone warranty covers parts, it does not cover the cost of labor charged by your contractor for service and repair. However, extended labor protection plans are available to cover labor costs associated with repairs. Your contractor may offer various coverage plans; we recommend you look for the Contractors' Preferred Protection Plan brand approved for NuTone.



\* Warranties not registered default to 5 years.

# NuTone®

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps 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).

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We Encourage Professionalism



Through Technician Certification by NATE



Intertek



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