NuTone®

iQ Drive® up to 20 SEER ultra high-efficiency

AIR CONDITIONER AND HEAT PUMP SYSTEMS



ecoLogic®

ENERGY STAR

iQ Drive®



THE IMPORTANCE OF BEING UP TO 20 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 20 SEER in air conditioning and up to 19 SEER in an air-source heat pump.

Just a few of the many benefits include:

- **Lower energy bills**
- **Reduced hot and cold spots**
- **Ultra-low sound levels**
- **Ramps up gently, eliminating uncomfortable temperature swings**
- **Eliminates noisy on/off cycles**
- **Continuous airflow 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 five steps of 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.

Features and Benefits

- 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.
- NuTone jacket panels protect 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.
- The iQ Drive inverter board regulates the compressor at all times to achieve some of the highest efficiency levels available today.
- All air conditioner models feature all-aluminum Micro-Channel coils for increased resistance to corrosion. They feature an innovative design that decreases unit weight and refrigerant requirements, while increasing reliability.



iQ Drive rotary compressor and inverter board cutaways 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 57 db.

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.

	Dehumidification Mode	Sound Ratings	Modulation Capacity	Heating Efficiency	ecoLogic®	ENERGY STAR
20 SEER iQ Drive® Air Conditioner	Optional	57-76 dBA*	49%-118% of capacity	N/A	✓	✓
Up to 19 SEER iQ Drive® Heat Pump	Optional	58-73 dBA*	49%-118% of capacity	up to 10.0 HSPF	✓	✓

* Sound ratings may vary per tonnage

Heat Pump or Air Conditioner?

The 20 SEER 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 the up to 19 SEER iQ Drive heat pump.

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.

How much will you save?



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.



NuTone iQ Drive® indoor section.

The indoor section of this system is either a NuTone variable-speed gas 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. Your contractor can help you choose the appropriate NuTone furnace for your iQ Drive system.

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 airflow improves filtration and humidity control
- Balances temperatures and minimizes hot and cold spots



iQ Drive® with Air Handler

20 SEER Air Conditioner

Up to 19 SEER/10.0 HSPF Heat Pump

- 49-118% modulation
- 57-76 dBA sound levels

iQ Drive® with Gas Furnace

20 SEER Air Conditioner

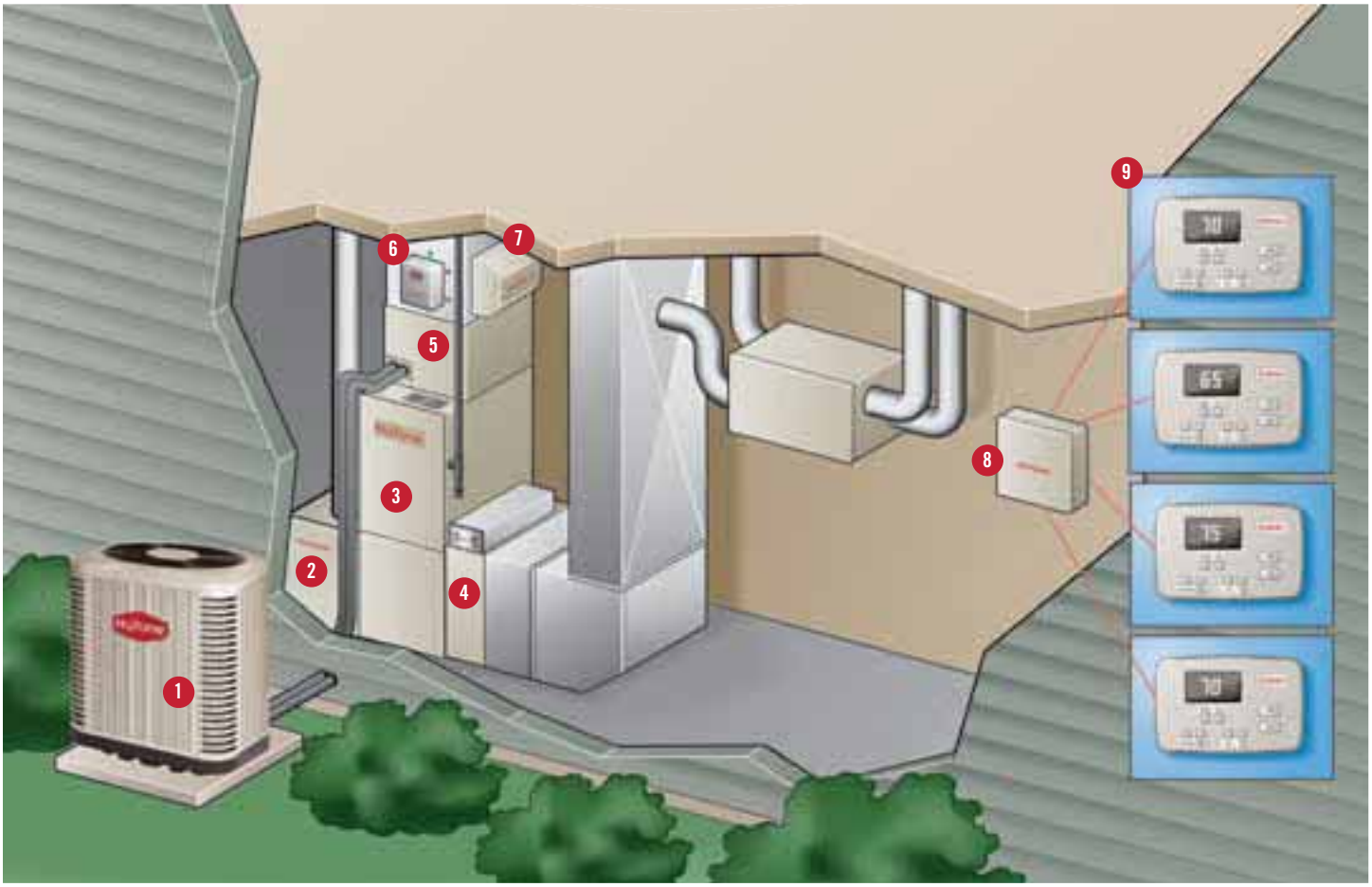
Up to 19 SEER/10.0 HSPF Heat Pump

- 49-118% modulation
- 58-73 dBA sound levels

Available with
- Two-Stage, Variable-Speed 96% AFUE Gas Furnace
- Two-Stage, Variable-Speed 95.1% AFUE Gas Furnace
- Two-Stage, Variable-Speed 80% AFUE Gas Furnace



NUTONE COMFORT SYSTEM



1. Air conditioner or heat pump
2. HEPA air cleaner
3. Gas furnace or air handler
4. Electronic air cleaner
5. Evaporator coil
6. UV air purifier
7. Humidifier
8. Zone control panel
9. Programmable thermostat

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 15.0 or higher and an Energy Efficiency Rating (EER) of 12.5 or higher. Split-system heat pumps are ENERGY STAR® rated by a Heating Seasonal Performance Factor (HSPF) of 8.5 or higher.

ecoLogic®

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
Measures 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
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 the 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 a 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 one-year parts warranty, five-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. See warranty details for more information.

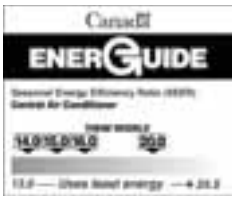
Extended Warranty Protection
While your NuTone warranty covers parts, it does not cover the cost of labor charged by your contractor for service and repair. However, extended labor protection plans are available to cover labor costs associated with repairs. Your contractor may offer various coverage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

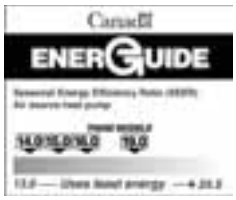


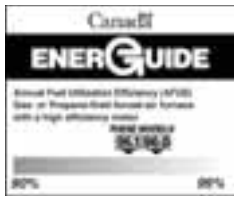


* Warranties not registered default to 5 years.

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.























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www.nutonehvac.com

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Pictured installation varies per household.

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