

# NuTone®



16 SEER Variable Speed, Two-Stage Air Conditioners and Heat Pumps

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Pictured installation varies per household.

### Testing Certifications



# NuTone® Comfort Evaluation

On a scale of 1 to 10, with 10 being the most important and 1 being the least, rate the importance of the following.

1.  Even temperatures in your home?
2.  Trouble-free reliability of your new equipment?
3.  Knowledgeable & well-trained installers on equipment installation & air leaks solutions?
4.  Automatic Temperature Control that matches your daily schedule?
5.  Removing up to 90% of the dust and pollen in our home (IAQ)
6.  Preferential service if there ever is a problem?
7.  Getting rid of excess moisture in your home?
8.  Eliminating dryness in the winter?
9.  Saving money on your utility bills?
10.  A heating & air conditioning system that will last a long time?
11.  Quiet equipment operation?
12.  Extended Warranties after initial warranties expire?
13.  Proven state-of-the-art technology?
14.  Reputation of contractors that work in your home?
15.  Dependable same day service/emergency service after the sale?

7-10

4-6

0-3

Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Evening Phone: \_\_\_\_\_

1. How long have you lived in your home? \_\_\_\_\_  
How long do you plan on living here? \_\_\_\_\_
2. Have you installed any of these energy-saving projects in your home? \_\_\_\_\_  
New Insulation? \_\_\_ Doors? \_\_\_ Windows? \_\_\_ Attic Ventilation? \_\_\_
3. Are there some parts of your home that are not as comfortable as other parts of your home? \_\_\_\_\_  
Upstairs? \_\_\_ Downstairs? \_\_\_ Bedrooms? \_\_\_ Other? \_\_\_
4. What would you like to improve? \_\_\_\_\_
5. Where does your family spend most of its time? \_\_\_\_\_
6. Does the noise of the current heating/cooling system bother you? \_\_\_\_\_
7. Are you happy with the location of your air conditioner? \_\_\_\_\_
8. Where would you like to relocate your air conditioner? \_\_\_\_\_
9. Do you feel like you have a lot of dust in your home? \_\_\_\_\_
10. Would you like to reduce the dust in your home? \_\_\_\_\_
11. Does anyone in your family have allergies to mold, pollen, dust, pet dander? \_\_\_\_\_
12. Do you have a maintenance agreement on your current heating/cooling system? \_\_\_\_\_
13. Do you feel that it is important to have your comfort system serviced over the years ahead? \_\_\_\_\_  
Why? \_\_\_\_\_
14. At what temperature do you set the thermostat in the winter? \_\_\_ summer? \_\_\_
15. Do you ever adjust the thermostat? \_\_\_ Why is that? \_\_\_\_\_

## The NuTone® Quality Pledge

Because NuTone air conditioners and heat pumps are built- for the long run, the most critical cooling component— the compressor—is backed by our NuTone Quality Pledge. When installed with a matched NuTone indoor coil or air handler, we'll replace your NuTone air



conditioner or heat pump should the compressor fail during the first 10 years of ownership. For even greater peace of mind, internal working parts of every NuTone unit are covered by a limited warranty for replacement up to 10 full years.

## Reliable Performance. Strictly Top-Of-The-Line.



NuTone's air conditioners and heat pumps are up-to-speed with the expectations of today's comfort-minded and energy-conscious consumer. Using the latest two-stage scroll compressor technology, it stands to reason that these air conditioners and heat pumps will cost more up front. But over the lifetime



of your initial investment, they'll provide unparalleled comfort, quiet operation, and significant improvements in indoor air quality.

Likewise, they'll pay back dividends providing energy savings worth hundreds of dollars per year along with reduced maintenance costs.



## Two-Stage Technology That Quietly Up-Stages The Rest

On mild days, which statistically average about 80% of the cooling season, a system that idles down to a reduced-cooling capacity improves comfort.

NuTone®'s two-stage systems are built with this purpose in mind. In the first stage, the air conditioner, or heat pump, uses approximately just 68% of its total capacity running more slowly, quietly and efficiently. Then, during the hottest extremes—a second stage boosts capacity ramping up gently to maximum speed. Ramping gradually through cooling cycles increases quiet performance.

Since air is circulated at longer cycles more continuously, room temperatures are balanced and more comfortably mixed. Temperature swings are reduced to barely a couple of degrees and hot and cold spots are minimized.

Best of all, by reducing energy consumption in the low-speed, a two-stage air conditioner, or heat pump, can also reduce your energy bills by hundreds of dollars each season.

## Breathe Easy, Save Big

There's another performance factor to consider for comfort, especially in summer: Humidity.

When an outdoor two-stage, air conditioner or heat pump is matched with an indoor furnace or air handler equipped with a variable-speed blower, it's possible to remove up to 6 times more moisture. So thermostat settings at 72 degrees feel as comfortable as at 70 for systems using conventional blower 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.

Variable-speed motors can save \$150/yr. on cooling plus another \$240 in electrical costs for continuous fan operation, compared to conventional blower motor based on average savings calculations at 8c/kwh. Actual savings may vary according to utility rates, climate, ductwork, insulation, duty cycle, and lifestyle usage patterns.



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.

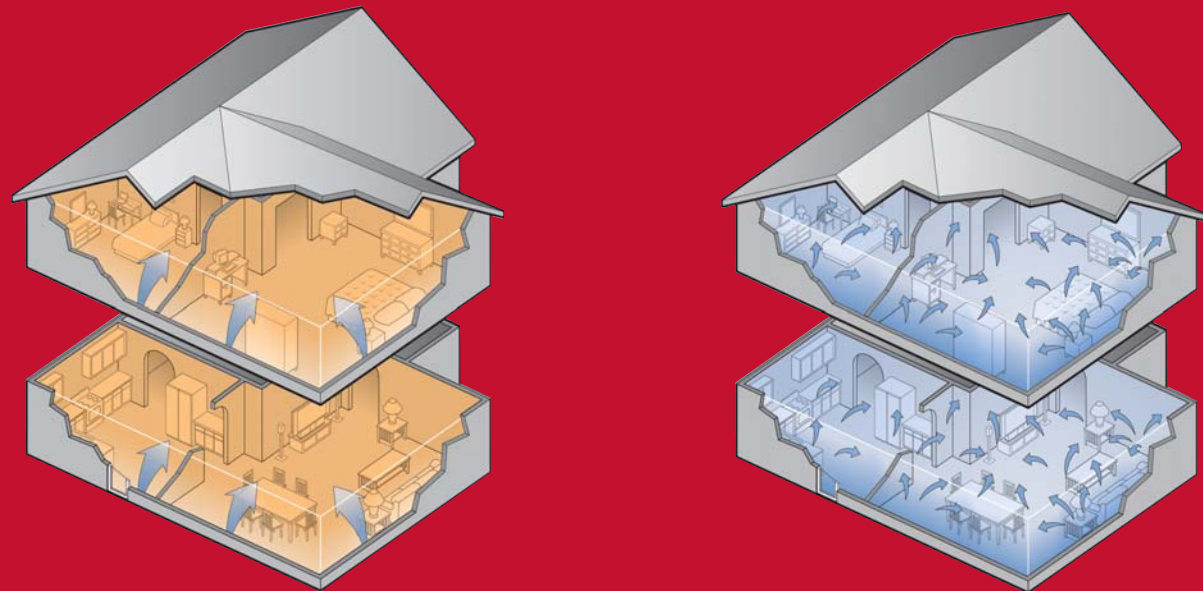
### Energy Definitions

**SEER—Seasonal Energy Efficiency Rating**  
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.

As ratings increase, so does unit efficiency.

## Fixed Speed vs. Variable 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

## 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, air conditioners must have a Seasonal Energy Efficiency Ratio (SEER) rating of 14 or higher.

Heat pumps are Energy Star® rated by a Heating Seasonal Performance Factor (HSPF) of 8.5 or higher. Ratings 25% more energy efficient than standard models.

Environmentally friendly R-410A refrigerant is non-ozone-depleting.



NuTone® 2-Stage Variable Speed split system products are the most energy-efficient, environmentally responsible products. Look for the ecoLogic™ seal.



## 16 SEER Variable Speed, Two Stage Split System Air Conditioners and Heat Pumps



### Ultra-High Efficiency Two-Stage Compressor—sets the highest standard for reliable, quiet operation and energy savings of up to 60% ENERGY STAR®

- 1 Heavy Duty PCS Motor—provides maximum high-speed efficiency for improved air flow capacity. Long lasting durability and quiet operation. It is completely protected from rain and snow, and requires no maintenance.
- 2 One-piece top with integrated fan orifice designed for maximum air flow while minimizing noise
- 3 Two-stage scroll compressor runs more quietly and efficiently with fewer working parts than reciprocating models for extended trouble-free service life
- 4 A Stylish jacket—full-metal, louvered jacket protects coil from impact of flying debris due to mowing, golf balls, hail and other hazards  
B Solid construction—galvanized steel for added strength and durability, featuring silicone-protected 1.5 mil polyester urethane finish that provides superior corrosion resistance, 50% better protection than standard outdoor finishes
- 5 Copper tube/aluminum fin coil design maximizes ratio of heat transfer to inner surface area for more efficient, reliable operation
- Liquid line filter dryer—prevents debris and moisture from contaminating refrigerant prolonging life of the system



### 16 SEER Ultra High Efficiency



### Two-Stage Air Conditioner

- Exceptional Warranty—10-year limited warranty on all parts, 10-year NuTone Quality Pledge

Ask your NuTone dealer or go to [www.nutonehvac.com](http://www.nutonehvac.com) for warranty details.



### 16 SEER/Up to 9.0 HSPF Ultra High Efficiency



### Two-Stage Heat Pump

- Exceptional Warranty—10-year limited warranty on all parts, 10-year NuTone Quality Pledge

Ask your NuTone dealer or go to [www.nutonehvac.com](http://www.nutonehvac.com) for warranty details.

