



Split Systems

Innovative and reliable.

Brothers Select Heating & Air Conditioning by Broan is a line of Heating and Cooling products feature precision engineering components that deliver extended service life, plus state-of-the-art efficiency and comfort for your home. Home Cooling and Heating Systems are the heart of any home, where comfort is desired, reliability is demanded, and stylish innovation is appreciated.

This line of energy efficient products provide quiet, reliable performance and it is what matters most to your family and ours. That is why every product is built with extreme care. Using our unique quality control manufacturing practices, each system is triple-checked at every step of the manufacturing process. Our cooling and heating products are also 100% fired and tested on the line prior to leaving the factory.

We are so confident in our manufacturing process and the quality and reliability of our heating and cooling systems, we provide a factory-backed, industry-leading warranty.

Our heating and cooling products are backed by a limited 10 year parts warranty. Additionally, should your heat exchanger or compressor fail, we will replace the entire unit with a like product. That's our quality pledge.* To take advantage of our long warranty, simply follow the registration process included in your warranty documents.

Understanding the complete system.

A Split System air conditioner or heat pump is the most common whole-home residential comfort system. They call it a split system because the outdoor section, the air conditioner or heat pump, requires a separate indoor section to operate. Energy efficiency of a system is rated and certified by matching the outdoor and indoor section. The indoor section is typically a furnace and indoor coil, or an air handler, which

contains a blower and a coil. It is important to change out your indoor section, specifically coils and air handlers, when you replace an older air conditioner or heat pump, so the system will perform at the rated efficiency performance, as well as assuring long-lasting reliability. Your dealer can determine the most appropriate system for your home and needs.

Heat Pump vs. Air Conditioner. A heat pump has the ability to both cool and heat your home, while an air conditioner is designed only to cool your home, relying on a furnace to provide the heat if needed. It is common for someone to have an air conditioner and furnace system, or a heat pump and air handler system. However because of rising fuel costs, some consumers are considering dual-fuel options, which is installing a heat pump and furnace. Some times referred to as a hybrid system, the dealer can install and set the heat pump to operate in "heat" mode at a specified temperature, before the system calls for gas heat. This helps reduce gas consumption during cold spells. Your dealer can help determine if a hybrid install is a beneficial option to consider.

Fixed Speed vs. Variable Speed. Standard systems operate using fixed speed motors. Fixed speed motors are reliable technology, but they will use more energy than variable speed motors. Variable speed also balance temperatures and minimize hot and cold spots. The continuous air flow provided through variable speed motors also improves filtration and humidity control. The 16 SEER and 20+ SEER systems use variable indoor technology, and 13 and 14 SEER products can be matched with variable speed indoor products if interested in the additional comfort benefits.

Standard Efficiency Models

13 SEER. All feature reliable Scroll Compressors. Efficiency performance can improve up to 14 SEER with a matched energy efficient air handler or furnace with coil. This product offers ideal protection along with extra-quiet performance features.

Heat Pumps also perform at an HSPF of 8.0

Uses R-410A environmentally friendly refrigerant.



Multi-Stage Performance. On mild days, which statistically average about 80% of the cooling season, a system that idles down to a reduced-cooling capacity improves comfort. Two-Stage performance, as featured in our 16 SEER air conditioners and heat pumps are built with this purpose in mind. In the first stage, the system will use 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. Temperatures are reduced to barely a couple of degrees and hot and cold spots are minimized.

This is why our iQ Drive® system is the ultimate in quiet and energy efficiency performance. Instead of using two stages to change capacity, the iQ Drive inverter technology alters the compressor speed just enough to match the slightest change in temperature. This creates the most consistent temperature levels and the fewest hot and cold spots at all times.

A Brothers Select Heating & Air Conditioning 13 – 16 SEER Air Conditioner or Heat Pump has the following features:

- **Reliable, Quiet, Scroll Compressor Technology.** Scroll compressor for quieter operation on all 13 and 14

SEER products. They provide fewer working parts than reciprocating piston compressors, longer service life and reliability. The 16 SEER products features an Ultra-Scroll compressor that provides 2-Stage cooling performance for better comfort and more even temperature.

- **Heavy Duty Motor.** Maximum high-speed efficiency for improved airflow capacity long-lasting durability and quiet operation. It is completely protected from rain and snow, and requires no maintenance.
- **Copper tube/aluminum fin coil.** Design maximizes ratio of heat transfer to inner surface area for more efficient, reliable operation.
- **Solid Protection.** Full-metal, louvered jacket protects coil from impact of flying debris due to mowing, golf balls, hail and other hazards Built using galvanized steel for added strength and durability, this jacket also features silicone-protected 1.5 mil polyurethane finish that provides superior corrosion resistance, 50% better protection than standard outdoor finishes.
- **Maximum Airflow.** Integrated fan orifice designed for maximum air flow and minimum noise.

A Brothers Select Heating & Air Conditioning iQ Drive System has the following features:

- **Most Energy Efficient, Quiet System.** The most efficient system available, the iQ Drive which operates up to 23 SEER, features our inverter-rotary technology. A technology used world-wide in

Extra High Efficiency Models

14 SEER. Performance can increase up to 15 SEER more when installed with a matched energy efficient indoor air handler or furnace with coil.

Heat Pumps also perform at an HSPF of up to 9.0

Uses R-410A environmentally friendly refrigerant.



16 SEER. Features 2-Stage Compressor that runs at a lower capacity during warm, mild temperatures and higher capacity during hotter days for more even temperature in the home.

Heat Pumps also perform at an HSPF of 8.5+

Uses R-410A environmentally friendly refrigerant.



some of the most extreme heated climates, the iQ Drive also provides the quietest performance. Traditional compressors operate at 3600 rpm power. Since the iQ Drive system can ramp down to 900 rpm it makes for a quieter home, especially at night.

- **Solid Protection.** Full-metal, louvered jacket protects coil from impact of flying debris due to mowing, golf balls, hail and other hazards. Built using galvanized steel for added strength and durability, this jacket also features silicone-protected 1.5 mil polyurethane finish that provides superior corrosion resistance, 50% better protection than standard outdoor finishes.
- **Smart Technology.**
 - o The iQ Drive Inverter Board regulates the compressor at all times to achieve the highest efficiency available. It does this by constantly adapting to the slightest changes in temperatures outdoor.
 - o You can program your iQ Drive display screen thermostat to control specific functions at precise times of the day. What makes it even smarter is its complete monitoring system that provide on board diagnostics and service settings for operational commands and service notifications. Error codes, filter cleaning and change notifications as well as other service reminders are provided.
 - o With a selectable level of 35 – 70%, the dehumidification mode setting quickly zaps moisture from the air and regulates the most consistent humidity levels throughout the home.

ENERGY STAR: 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 SEER rating of 14 or higher. Heat pumps must also have an HSPF of 8.5 or higher.

TEN-YEAR WARRANTY

A manufacturer's confidence in the quality of their product is demonstrated in the warranty they offer. We offer one of the best warranties around – a 10 year limited warranty that covers all parts. Premium Blue Dot air conditioners and heat pumps offer a 10 Year Quality Pledge. Should our compressor fail in the first 10 years of operation, we will replace the entire air conditioner or heat pump with an equal product, when installed with a matched air handler or indoor coil. To take advantage of our long warranty, simply follow the registration process included in your warranty documents. Contact us to learn more about our product warranties and to help you decide the best efficiency and product suited to meet your needs.



* **Please review your warranty document for qualifying conditions for the quality pledge and registration information.**

Ultra-Efficient iQ Drive® Technology**



20+ SEER. Complete system includes iQ Drive Controller, iQ Drive Air handler or iQ Drive - Ready Furnace with Matched Indoor Coil. Most energy efficient comfort available.

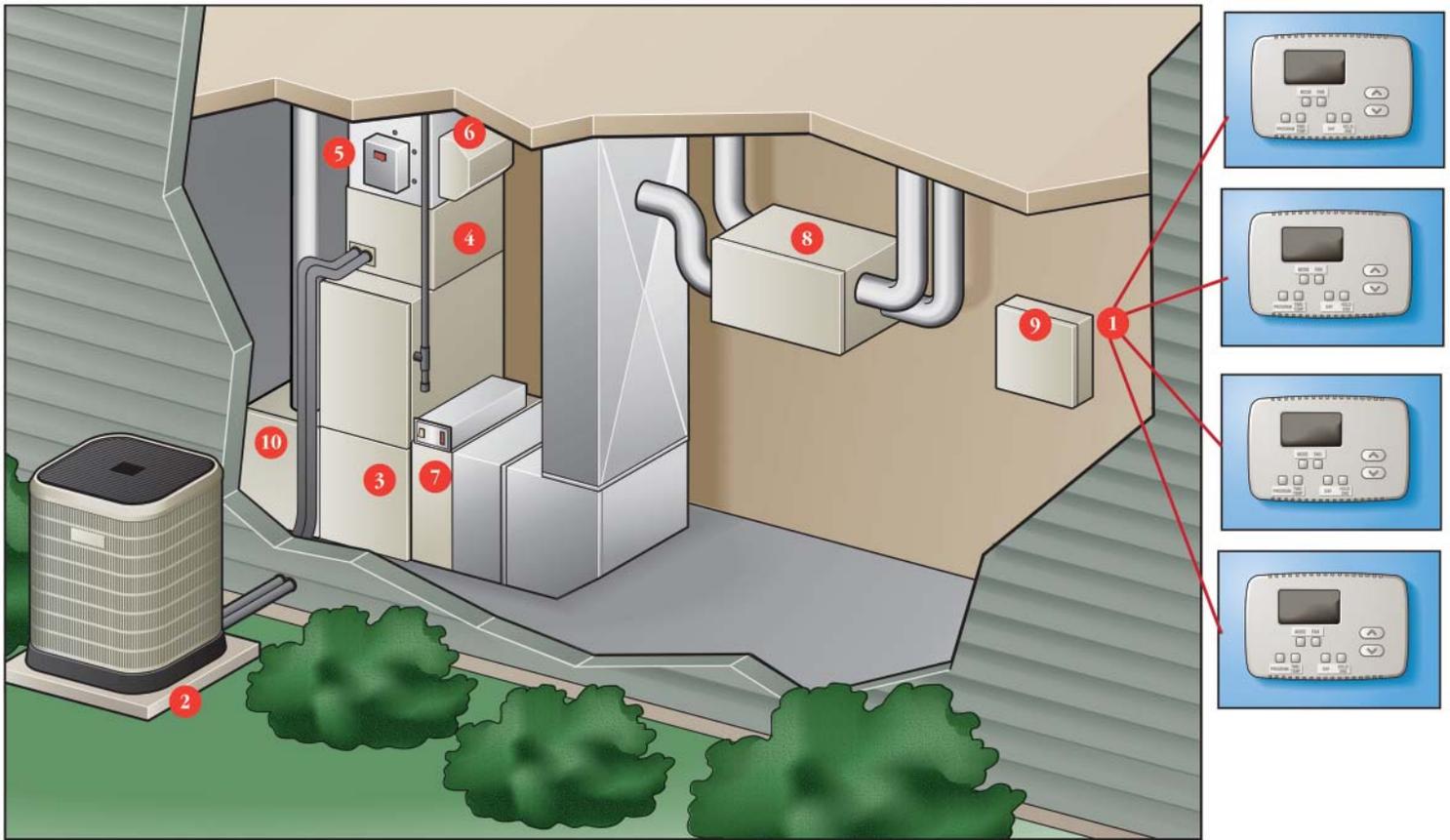
Uses R-410A environmentally friendly refrigerant.

** Availability may be limited on new models, specifications and ratings subject to change. Ask your dealer about current efficiencies and models available before purchase.

We are proud to offer the **Brothers Select Heating & Air Conditioning** brand of heating and cooling equipment as the perfect choice for reliable, top-quality products. We have been in the heating and cooling business for 25 years serving the Charlotte area, and are proud to provide the **Brothers Select Heating & Air Conditioning** line. We offer installations, repairs and financing. We also offer 24 hour emergency service on all makes and models of heating and cooling equipment. We're confident you'll enjoy many years of trouble-free service with your new **Brothers Select Heating & Air Conditioning** comfort system. For more information, please call us at **1-800-849-2881**.

Brothers Select Heating & Air Conditioning

BROTHERS *Select*
ULTRA-EFFICIENT BY **BROAN® HVAC**



- ❶ Programmable thermostat
- ❷ Air conditioner or heat pump
- ❸ Gas furnace or air handler
- ❹ Evaporator coil
- ❺ UV air purifier
- ❻ Humidifier
- ❼ Air cleaner
- ❽ Energy recovery ventilator
- ❾ Zone control panel
- ❿ HEPA air cleaner

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 delivered to your house compared to the amount of fuel that you must supply to the furnace. For example, a furnace that has an 80% AFUE rating converts 80% of the fuel supplied to heat - the other 20% is lost out of the chimney.

As ratings increase so does the efficiency.



Specifications and ratings subject to change. Ask your dealer about current efficiencies and models available before purchase.