



Furnaces

Innovative and reliable.

Brothers Select Heating & Air Conditioning by Broan is a line of heating and cooling systems that feature precision engineering components that deliver extended service life, plus state-of-the-art efficiency and comfort for your home. A cooling and heating system is 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 furnace provides heat throughout the home during the winter months. During the summer months the furnace blower system also helps distribute the cool air from your outdoor air conditioner throughout the home. In fact, the indoor coil that is part of your outdoor air conditioning system, is attached to your furnace. While there are a variety of components in a furnace, all must include a blower motor, heat exchanger, igniter, and a control board. These

main components can also vary in features that make them more reliable, quiet, efficient or smarter.

SmartLite® Control Board. All of our gas furnaces use hot surface ignition technology. The SmartLite control board helps extend the life of the igniter by learning the start-up characteristics of the furnace, then self-adapting the ignition time so the igniter is energized appropriately. This is accomplished through microchip software programming. Our igniter systems are safe, well proven and have a very good track record.

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. We offer a choice of variable speed products to meet your needs.

Two-Stage Performance. On mild days, which statistically average about 80% of the heating season, a system that idles down to a reduced-heating capacity improves comfort. Two-Stage performance, is featured in both our 80 AFUE & 95.1 AFUE Two-Stage gas furnaces, which 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 coldest extremes, a second-stage boosts capacity ramping up gently to maximum speed.

Ramping gradually through heating cycles increase quiet performance. Since air is no longer 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.

Standard Efficiency Gas Furnace



Upflow/Horizontal



Downflow

80 AFUE. These gas furnaces are compact and designed for various residential applications. Level 1 model is a Single Stage, Fixed speed operation. Level 2 features Two-Stage fixed speed performance. For the best year-round comfort, Level 3 offers Two-Stage Variable Speed performance.

Level 1. 80 AFUE Single Stage, Fixed Speed

Level 2. 80 AFUE Two Stage, Fixed Speed

Level 3. 80 AFUE Two Stage, Variable Speed

Gas Furnace Features.

All **Brothers Select Heating & Air Conditioning** Gas Furnaces have the following features:

- Multi-port, in-shot burner design and location of inducer and air vents assures cleaner, more efficient combustion.
- Galvanized steel cabinet for added strength and durability.
- Silicone-polyurethane finish provides superior scratch and corrosion resistance.
- Premium Models include fully insulated cabinet and blower compartment for quieter operation.

Single-Stage Fixed Speed include the following features:

- Fixed-speed direct-drive motor provides higher torque and operating speeds for improved air flow capacity Smoother motor operation reduces noise and lowers winding temperatures that help to extend bearing-life of the motor.

Two-Stage Fixed Speed include the following features:

- Two-Stage operation that provides more even temperatures throughout the home.
- iSEER™ technology inside. iSEER increases the energy efficiency of your cooling system. The energy performance of a cooling system is rated by SEER.

Two-Stage Variable Speed include the following features:

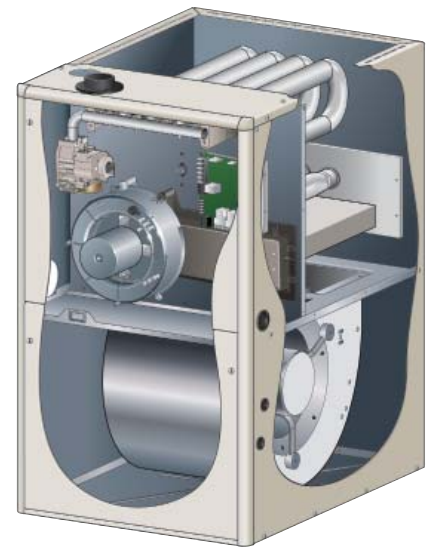
- Two-Stage operation that provides more even temperatures throughout the home.
- iSEER variable-speed motor with built-in speed and torque controls adjust to meet airflow requirements

more efficiently and quietly. Variable-speed motor's efficiency can save hundreds of dollars annually compared to blowers with standard induction motors.

- Variable-speed motors provide longer, trouble-free operation preventing excessive motor wear caused by abrupt stop/start-up cycles.
- Variable-speed motors maintain factory-calibrated airflow capacity automatically compensating for reduced duct volume, dirty air filters, zoning changes, obstructed supply register, etc.
- These furnaces are iQ Drive®-ready, which means they can be installed with our iQ Drive outdoor systems that provide the highest energy efficiency performance in a whole-home cooling system.



80 AFUE Upflow Cutaway View



92.1 AFUE Upflow Cutaway View

Extra High Efficiency Gas Furnaces



Upflow/Horizontal



Downflow

92.1 + AFUE. These gas furnaces are compact and designed for various residential applications. Level 1 model is a Single Stage, Fixed speed operation. Level 2 features Two-Stage fixed speed performance. For the best year-round comfort, Level 3 offers Two-Stage Variable Speed performance.

Level 1. 92.1 AFUE Single Stage, Fixed Speed

Level 2. 95.1 AFUE Two Stage, Fixed Speed

Level 3. 95.1 AFUE Two Stage Variable Speed

Oil Furnace Features.

All of **Brothers Select Heating & Air Conditioning** Oil Furnaces have the following features:

- Multi-speed direct-drive motor provides higher torque and operating speeds for improved air flow capacity. It's permanently lubricated, resilient mounted for quiet operation. Smoother motor operation reduces noise and lowers winding temperatures that help to extend bearing-life of the motor. Efficiently reduces electricity consumption for blower operation compared to standard motors.
- 20/22-gauge steel cabinet for added strength and durability.
- Fully insulated cabinet and blower compartment for quieter operation.
- Finish—thermosetting powder coat for greater durability
- Variable speed technology available in High Boy models.

EFFICIENCY PERFORMANCE

Understanding the best investment in an energy performance product may partially be determined by the length of your heating season. In some cases, an 80% AFUE (Annual Fuel Utilization Efficiency) furnace is the perfect improvement over your current furnace. And if your furnace is more than 15 years old, it most likely will reduce your energy consumption. If you are in a market that has a lot of heating days, harsh winters, or where utility companies offer rebates for energy efficient furnace equipment, then your choice may be one of our Extra High Efficiency furnaces. The furnace efficiency on these products start at 92.1% AFUE and have earned the Energy Star rating. They are specifically designed to reduce your energy consumption and lower your energy costs.

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, furnaces must have a AFUE rating of 90% 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. Gas Furnaces also have a 10 Year Quality Pledge to replace the unit if the heat exchanger fails within the first 10 years of operation. Additionally, gas furnaces are available with a limited lifetime warranty on the heat exchanger. 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.**

80 AFUE. Our Oil Furnaces are available in various configurations for residential applications. These Furnaces are equipped with Industry Leading Beckett Burners.



80 AFUE High Boy Fixed & Variable Speed Models



80 AFUE Low Boy



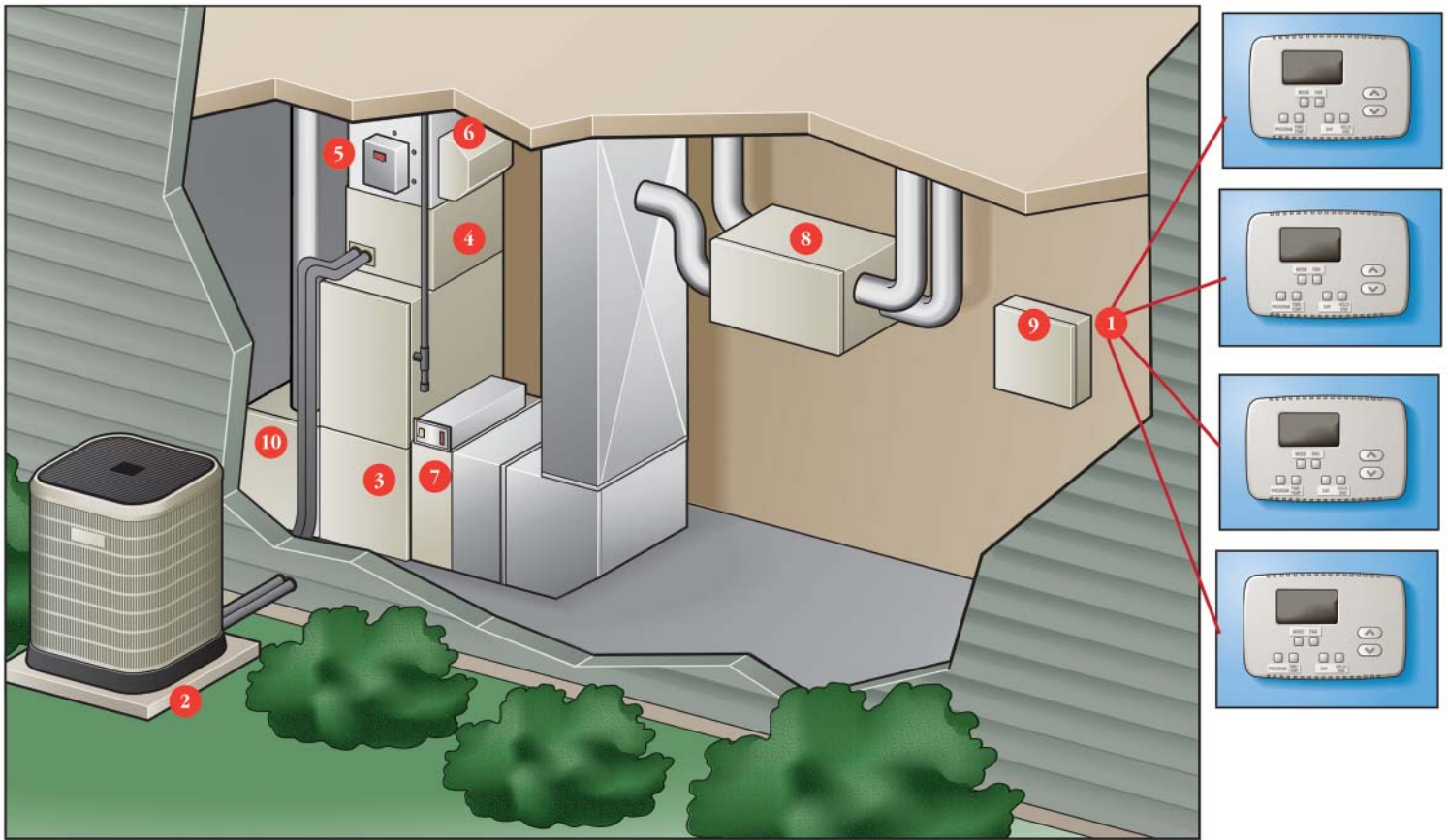
80 AFUE Compact

Oil Furnaces

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.