

Energy Efficiency

High Performance

Quality



**RIEGER
HOMES INC.**

Building Your Dreams For Over 50 Years

FEATURE

BENEFITS

ENERGY SAVINGS

ENERGY STAR® Gas Furnace

A higher efficiency furnace consumes less fuel to generate heat.



- Meets the ENERGY STAR® guidelines for energy efficiency.
- 92.0% efficient Carrier/ Bryant furnace reduces annual heating costs.
- Two heat exchangers efficiently extract the heat produced to heat the home.
- Direct vent enclosed combustion air intake and exhaust technology eliminates the impact on air quality in the home, and provides quieter operation.

ENERGY STAR® Gas Hot Water Heater

A higher efficiency water heater consumes less fuel to generate hot water.



- Meets the ENERGY STAR® guidelines for energy efficiency.
- .60 Water Heater Energy Factor reduces annual utility costs.
- Power vented, through PVC exhaust pipe, for higher efficiency.

ENERGY STAR® Low-E Insulated Windows with Argon Gas

High performance windows are critical for improving energy efficiency in the home.



- Low-emittance (Low-E) glass contains an ultra thin metallic coating to reflect heat back to its source.
- Blocks much of the ultraviolet light that damages skin, wood and fabrics.
- Argon gas, between two window panes, efficiently conserves energy.
- A higher R-value results in greater insulating effectiveness for year-round comfort.

Advanced Framing Techniques

New framing techniques use materials more efficiently and result in more energy efficient homes.

- Reconfiguring framing at the joints and corners reduces the amount of lumber used and helps to create larger cavities for insulation, increasing overall energy retention.
- Framing at 24" on-center reduces the number of wall studs, further reducing the energy loss due to direct conduction through solid wood to the outside.
- Open framing above gable wall windows, instead of solid header material, allows for the installation of more insulation.

Multiple HVAC Zones

Individual HVAC zones provide efficiently controlled comfort.

- Puts heat and cooling into areas according to individual comfort requirements.
- Furnace and A/C will save energy, running less to satisfy smaller areas of the home.

Programmable Thermostats

Energy is saved by using a thermostat that automatically adjusts based upon the living patterns of the home's occupants.

- Honeywell programmable thermostats.
- Saves substantially in annual heating and cooling costs if used as directed.
- Weekday/weekend programming to adjust settings to better match heating and cooling to your lifestyle.

Upgraded Attic Insulation

The attic floor or ceiling are critical areas of energy loss, where insulation keeps hot air out during the warmer months and in during the cooler months.

- Open cell spray foam, underneath the roof sheathing in several areas, seals and insulates problem attic spaces against heat loss.
- Blown in cellulose surrounds the remainder of the attic floor framing, reducing unwanted heat transfer through the attic.
- Reduces noise levels and condensation.

Air Barrier Sealing

Best practices used to seal exterior envelope to prevent air from passing into or out of the home.

- Properly sealed and insulated homes save substantially on heating and cooling costs.
- Barriers are installed behind showers and bathtubs, at the outside ends of all floor systems, at the edge of the attic where wind can wash down under insulation, as well as around the entire exterior shell of the home.

Blower Door and Duct Blaster Testing

Third party testing identifies any remaining air leaks and ensures the ductwork is tightly sealed.

- Duct or air leakage can increase heating or cooling costs by over 30%, as well as contribute to comfort and health problems.
- Blower door testing, performed by an energy auditor, ensures energy efficiency and indoor air quality.
- Duct blaster testing identifies locations of air leakage in ductwork so they can be properly sealed.

HVAC Ducts within Thermal Envelope

Allows Heating and Cooling Systems to operate at peak efficiency.

- Where possible, ductwork is located in conditioned areas.
- Cellulose and foam insulation protects ducts from heat and cooling loss due to temperature of air in unconditioned attic space.



**ENERGY EFFICIENT,
HIGH PERFORMANCE
HOMES**

845-561-1300

www.RiegerHomes.com

FEATURE

BENEFITS

ENERGY SAVINGS (CONTINUED)

Mastic Sealed Ductwork

Mastic sealant improves upon traditional duct sealing methods, reducing air leaks.

- Mastic sealant is a resin that very efficiently seals leaks and improves system performance.

Compact Fluorescent Light (CFL) Bulbs

Compact Fluorescent Light (CFL) Bulbs are a type of fluorescent lamp designed to use less power and last longer.

- Uses up to 75% less energy and last up to 10 times longer than traditional incandescent bulbs, reducing both energy usage and bulb replacement costs.
- Produces about 70% less heat than standard incandescent bulbs.

ENERGY STAR® Dishwashers

A dishwasher designed to be more energy efficient while also using less water.



- Meets government ENERGY STAR® qualification standards to help conserve natural resources and save money on utility bills.
- 10% more energy efficient than non-ENERGY STAR® qualified models.
- Uses almost one-third less water (5.8 vs. 8 gallons per cycle) than other dishwashers.

High Efficiency Air Conditioning System

A high quality and highly energy-efficient cooling system saves energy costs.

- Performance certified in accordance with the Air Conditioning and Refrigeration Institute (ARI).

INDOOR AIR QUALITY

Computer Controlled Ventilation

Bath fans, exhausting outward, draw fresh air in to ensure fresh air quality.

- One or more bath fans will run at computer designated speeds to bring in enough fresh air to maintain a healthy air quality.
- Computer timers are set to adjust fan speed & run time, according to the blower door test results, to bring in the required fresh air (measured in complete air changes of the home per hour).

Carbon Monoxide & Smoke Detectors

Devices that detect the presence of smoke and/or carbon monoxide.

- Concentration-time alarm sensor warns homeowners of the presence of carbon monoxide gas or smoke.
- Detectors are installed on all floors and the immediate vicinity of all sleeping areas for maximum detection.

Puron® Refrigerant in HVAC

Refrigerant is used in A/C systems to remove heat from home.

- Puron® is an environmentally sound non-Ozone depleting refrigerant only available in Carrier/ Bryant systems.
- Results in greater longevity of HVAC equipment because 410 A refrigerant systems use newer synthetic lubricants that extend system life.

Individual Return Ducts in Bedrooms

Small ducts that move air from individual rooms back into the HVAC system to better circulate the air.

- Balances airflow throughout the home, even when doors are closed, resulting in more steady temperatures throughout.
- Reduces heating and cooling loads on HVAC systems, allowing them to function more efficiently.

Low VOC Emission Paints and Carpets

Carpets and paints that contain a low level of VOC (Volatile Organic Compounds) emissions.

- Paints and carpets with low levels of VOCs are less likely to cause allergic or other reactions.
- Paints meet EPA standards by containing low levels of VOCs due to the use of water-based solvents instead of petroleum-based solvents.

WATER CONSERVATION AND MANAGEMENT

Water-saving Bath Faucets and Showerheads

Flow-optimized bath faucets and showerheads that use technological advancements to reduce water usage without sacrificing comfort.

- Delta WaterSense bath faucets use between 20-40% less than the industry standard, using 1.5 gpm vs. the std. 2.2 gpm (Showerheads 1.5 - 2.0 gpm vs. 2.5 gpm industry std).



- Contain an aerator that forces air into the water stream to maintain pressure and rinsing efficiency.

Water-saving Kitchen Faucet

Flow-optimized kitchen faucet that use technological advancements to reduce water usage without sacrificing comfort.

- Delta Water Efficient Product kitchen faucets use 1.5 gpm or 1.8 gpm vs. the industry standard of 2.2 gpm.



- Contain an aerator that forces air into the water stream to maintain pressure and rinsing efficiency.

Gutters Piped Away from Home

Directing gutter downspout water underground, away from home, reduces soil erosion.

- Front gutter downspouts drain into piping that runs underground and empties at a lower elevation grade.
- Keeps gutter water from eroding away landscaping, foundation, and seeded lawn.



Where applicable, performance data is based upon Manufacturer's research.

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