RESIDENTIAL PRODUCT LINE

AFFINITY™ AND LX™ SERIES

GEOTHERMAL HEAT PUMPS

YORK®
INSTALL CONFIDENCE
Geothermal Earth Loops

A geothermal system uses a series of underground pipes called a “loop.” A loop is the secret behind a geothermal system’s amazing efficiencies and the biggest difference from ordinary heating and cooling technologies.

10° Heating Mode
When temperatures drop, a geothermal heat pump taps into the heat stored underground and concentrates it to keep your home warm. It doesn’t use combustion to emit any on-site gases like carbon monoxide or carbon dioxide. Moving heat instead of creating it makes geothermal the most efficient heating solution available.

96° Cooling Mode
When temperatures rise, a geothermal heat pump pulls unwanted heat from your home and deposits it into the cooler earth (or uses it to create hot water). Its performance isn’t affected by normal outdoor temperature swings and the result is ultra-efficient cooling and dehumidification.

10°-70° The average year-round ground temperature only three to four feet beneath the frost line.

55°-70°

Geothermal Earth Loops

Horizontal Loop
A typical home needs ¼ to ¾ of an acre to utilize a horizontal loop, and trenches are dug using a backhoe or chain trencher. High density polyethylene pipes are inserted, and the trenches are backfilled.

Vertical Loop
A typical home requires three to five bore holes, dug with a drilling rig. A pair of pipes with special u-bend fittings is inserted into the holes.

Pond Loop
A ½ acre, 8-foot-deep pond is usually sufficient for the average home. A series of coiled, closed loops are sunk to the bottom of the body of water and are used for heat transfer.

Open Loop
An open loop utilizes a well that has an adequate capacity to provide water flow for both domestic use and the geothermal unit. Most units require 3-10 GPM, depending on size and model.

Efficiency

Geothermal heat pumps are much more efficient than traditional heating and cooling systems. They can reach efficiencies as high as 41 EER and 5.3 COP, which is twice as efficient as any normal air conditioner or heat pump and a third higher than the most efficient dual stage geothermal heat pump. Efficiency translates into savings.

Cost effective
Geothermal heat pumps are so efficient that any added cost over traditional equipment is usually recovered in just a few years. And because they have a lifespan of 20-25 years, your investment will last longer and your return on investment will grow year by year.

Safe
No combustion or flames are used to operate a geothermal heat pump, making it a safe choice for your home and family. Our systems merely move heat to and from the ground rather than by burning natural gas, propane, or oil.

Reliable
York uses only the highest-quality components, design, and workmanship. Computer run-testing after assembly ensures that your equipment performs flawlessly at startup.

Environmentally responsible
Since our units don’t burn expensive, polluting fossil fuels, they’re the most environmentally responsible options available today. Replacing a furnace and/or air conditioner with geothermal can minimize acid rain threats, air pollution, and the greenhouse effect.

Affordable peace of mind
York® geothermal units come with warranties up to 10 years for parts and labor allowances. Other options are available, so see your York® Contractor for details.

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Learn more at yorkgeothermal.com

Respected Name
For over 135 years, homeowners have been trusting York® to keep their homes and families comfortable year round. And by constantly leading the industry through our design and our technology, we’ve been doing just that.

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Affinity™ YAFV Series - 3 to 5 tons
Overall efficiency, performance & features: ★★★★★

The variable capacity York® Affinity™ YAFV is our flagship product and provides the industry’s most efficient heating, cooling, and hot water generation. Its variable capacity compressor scales output in unison with a variable speed blower motor and variable speed loop pump to provide a level of comfort and savings that’s unmatched.

Affinity™ YAF Series - 1 to 6 tons
Overall efficiency, performance & features: ★★★★★

The York® Affinity™ YAF is one of the most efficient single and dual capacity geothermal heat pumps available and offers a level of comfort and savings that’s much greater than any traditional system. The YAF is available in a number of sizes and configurations so it’s the perfect fit for any application.

LX™ YLF Series - 2 to 6 tons
Overall efficiency, performance & features: ★★★★

The York® LX™ YLF benefits from technology that’s been refined through 30 years of research, engineering advancements, and manufacturing experience. The YLF utilizes two-stage scroll compressors and 3-speed ECM blowers to provide high efficiency performance and quiet operation—all at a great price point.

Affinity™ YAP Series - 2 to 6 tons
Overall efficiency, performance & features: ★★★★★

The York® Affinity™ YAP is a complete outdoor packaged system that provides quiet and efficient heating and cooling for the entire home. Its advanced components and features offer a level of comfort and savings that’s far greater than any ordinary system—at industry-leading efficiencies.

Affinity™ YAWS Series - 1.5 to 6 tons
Overall efficiency, performance & features: ★★★★★

The York® Affinity™ YAWS is a water to water hydronic system that’s perfect as an add-on to handle 100% of your domestic hot water. Also great for radiant floor and pool & spa heating, the YAWS provides luxurious comfort and excellent savings.

Affinity™ YAW Series with OptiHeat - 3 to 5 tons
Overall efficiency, performance & features: ★★★★★

The York® Affinity™ YAW high temperature hydronic heat pump with OptiHeat technology is our geothermal solution for boiler replacement. It can deliver up to 150°F leaving hot water and is perfect for baseboard radiator systems, underfloor radiant applications, overfloor radiant applications, and fan coils.

Learn more at yorkgeothermal.com
<table>
<thead>
<tr>
<th>Style</th>
<th>YAF Series</th>
<th>YAP Series</th>
<th>YACT Series</th>
<th>YAZ Series</th>
<th>YAW Series</th>
<th>YAWS Series</th>
<th>YAWT Series</th>
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<tbody>
<tr>
<td>Style</td>
<td>Water to air</td>
<td>Water to air</td>
<td>Water to air</td>
<td>Water to air with radiant capabilities</td>
<td>Outdoor split</td>
<td>High volume water to water</td>
<td>Indoor split</td>
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<td>Capacity Range</td>
<td>3.5 - 5.0 tons</td>
<td>1.0 - 6.0 tons</td>
<td>2.0 - 6.0 tons</td>
<td>3.6 - 4.5 tons</td>
<td>3.6 - 5.0 tons</td>
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<tr>
<td>Efficiency: Part Load (GHP) Closed Loop</td>
<td>5.1 - 5.7 COP</td>
<td>3.9 - 4.5 COP</td>
<td>4.1 - 4.7 COP</td>
<td>3.9 - 4.6 COP</td>
<td>3.8 - 4.4 COP</td>
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<td>Efficiency: Full Load (GHP) Closed Loop</td>
<td>3.5 - 3.7 COP 24.9 - 25.6 EER</td>
<td>3.5 - 3.7 COP 20.6 - 23.3 EER</td>
<td>3.6 - 3.8 COP 16.1 - 18.7 EER</td>
<td>3.3 - 3.9 COP 15.0 - 19.9 EER</td>
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<td>Compressor</td>
<td>Variable Capacity</td>
<td>ECM variable speed &amp; dual capacity</td>
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<td>Stages (*with aux)</td>
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<td>Hot Water Generator (Optional)</td>
<td>Internal mount pump</td>
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<td>Internal mount pump</td>
<td>Internal mount pump</td>
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</tr>
</tbody>
</table>
Make a smart choice: York®

Choosing the right contractor is the first step in selecting the best system for your home. Your York® Contractor is trained to give you professional home comfort services, including:

- An evaluation of factors such as your home’s size, age, number of rooms, climate characteristics and utility costs
- A system recommendation that fits your family’s comfort needs, your home, your lifestyle and your budget
- The assurance of proper installation and customer care, including warranties and maintenance options

Stay comfortable for years to come.

York® is proud to offer the YorkCare™ Comfort Plan. It’s designed to maintain your system as well as your peace of mind. With YorkCare™ you get total protection that ensures your unit is effective and efficient for years to come.

What’s more, your York® Contractor offers maintenance agreements that provide upkeep while maximizing the warranty provisions. Ask about the YorkCare™ Comfort Plan. A little extra coverage is always a comforting idea.

Long story short — our history.

You’ve probably enjoyed York® engineering for years without even knowing it. We have, after all, designed and implemented heating and cooling systems in some of the world’s most famous structures, including the U.S. Capitol building, the Sydney Opera House, the entire U.S. Navy nuclear submarine fleet, and even venues such as your local mall and corner bank.

There’s a reason people trust us with the big jobs. We’ve been doing this a long time. Over 135 years, in fact. In that time, we developed the first successful room air conditioner and cooled the world’s first theater, hotel and office building. We’re constantly leading the industry in our design and our technology. And our commitment has earned our products the Good Housekeeping Seal of Approval. No matter what the scale, chances are we’ve developed an efficient, durable and effective solution for it.

Homeowners who install an ENERGY STAR® rated geothermal system in the U.S. are eligible for a 30% federal tax credit. The 30% credit will last through 2019 and can be claimed on equipment and installation costs with no upper limit. The credit is scheduled to decrease to 26% in 2020 and to 22% in 2021, so act now for the most savings!