



YAP MODEL | 27.6 EER & 4.6 COP

AFFINITY™ SERIES
GEOHERMAL OUTDOOR HEAT PUMP



It's time to get comfortable.

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 nor emit any on-site gasses like carbon monoxide or carbon dioxide. Moving heat instead of creating it makes geothermal the most efficient heating solution available.

The ground absorbs 46% of the sun's radiation.

96°

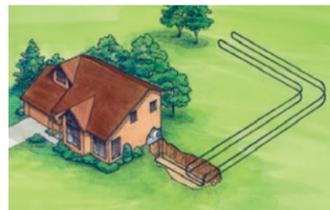
Cooling Mode

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.

55°-70° The average year-round ground temperature only three to four feet beneath the frost line.

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.



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. The York® Affinity™ YAP is rated with an amazing 27.6 EER and 4.6 COP, which makes it one of the most efficient dual stage units on the market. 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.



All-in-One

One York® geothermal heat pump will provide heating and cooling for your entire home. A variety of sizes and configurations are available, so no matter your home or climate, a geothermal heat pump will work for you.



Environmentally Friendly

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® Affinity™ YAP units come with warranties up to 10 years for parts and labor allowances. Other options are available, so see your York® Contractor for details.

Features of the Affinity™ Series

Compressor: For superb efficiency and reliability dual capacity units utilize Scroll UltraTech™ compressors. All compressors are double isolation mounted for extra quiet operation.

Controls: Powerful Aurora controls offer two-way communication between components, industry-leading operating logic, and thorough troubleshooting capabilities. An expansion board adds true energy monitoring as well as compatibility with our IntelliZone2 zoning system.

Blower Motor: A variable speed ECM motor runs at only the speed needed for maximum efficiency and savings.

Internal Loop Pumps: The flow center is conveniently mounted within the cabinet, eliminating the need for any indoor loop piping. The loop pipes enter the unit through an opening in the bottom or side panel.

Aluminum Air Coil: YAP units feature aluminum air coils for durability and extended system life. Formicary corrosion is now a thing of the past.

Cabinet: The cabinet comes standard with a professional grade finish for long-lasting beauty and protection. The system is fully insulated for quiet operation with cleanable foil-backed insulation and is available in five dual capacity sizes (2-6 ton).

ThermaShield™: Our exclusive coaxial heat exchanger coating protects against condensation for temperatures below 50°F, extending its life.

IntelliStart: This optional soft starter reduces start-up amperage by up to 60% of normal draw to reduce noise, eliminate light flicker, and increase compressor life.

R-410A: YAP units utilize environmentally friendly R-410A refrigerant.



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.

OVER
135
YEARS
OF DESIGN AND
INNOVATION

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 2032 and can be claimed on equipment and installation costs with no upper limit. The credit is scheduled to decrease to 26% in 2033 then to 22% in 2034, so act now for the most savings!

ISO/AHRI/ASHRAE Performance Ratings (13256-1)

AFFINITY™ YAP MODEL					
MODEL & SIZE		CLOSED LOOP		OPEN LOOP	
		COOLING (EER)	HEATING (COP)	COOLING (EER)	HEATING (COP)
026	Full Load	17.9	3.9	22.5	4.7
	Part Load	25.1	4.4	28.7	4.8
038	Full Load	19.7	4.1	24.4	4.8
	Part Load	27.1	4.6	31.7	5.0
049	Full Load	19.0	4.0	24.3	4.5
	Part Load	27.1	4.3	32.1	4.6
064	Full Load	18.2	3.8	23.1	4.5
	Part Load	24.7	4.2	30	4.8
072	Full Load	16.6	3.7	21.5	4.3
	Part Load	21.8	3.9	27.3	4.2

For additional product details, such as weight and dimensions, visit www.york-geothermal.com or ask your York® Contractor.



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Learn more at yorkgeothermal.com