

New Category Of Geothermal Heat Pumps Can Now Earn The Energy Star

The U.S. Environmental Protection Agency is announcing new requirements for residential geothermal heat pumps (GHPs), enabling water-to-water geothermal heat pumps to earn the Energy Star label for the first time. EPA's stringent specifications for this new category of geothermal heat pumps will help protect the environment and reduce energy costs, because GHPs that meet the new standards will be up to 45 percent more efficient than conventional pumps.

Geothermal heat pumps use ground temperature air instead of outside air to provide heating, cooling and often water heating. GHPs can be installed in new and existing homes. Because they use the constant temperature of the earth, GHPs are among the most efficient heating and cooling technologies currently available in the marketplace.

EPA worked with industry stakeholders to revise the requirements in response to growing consumer demand for water-to-water geothermal heat pumps. Water-to-water geothermal heat pumps provide heating and cooling and/or water heating to a building using liquid rather than forced air. The new requirements for water-to-water equipment complements existing efficiency and performance requirements for water-to-air and direct geexchange GHP models. Homeowners who install geothermal heat pumps with the Energy Star are eligible for a 30 percent federal tax credit.

More information on the heat pumps: [Geothermal Heat Pumps](#)

More information on the tax credit: [Federal Tax Credits for Consumer Energy Efficiency](#)

Photo credit to [GeoExchange](#)

[EnergyStar Geothermal](#)

Daikin McQuay Pathfinder™ Air-cooled Chiller Now Available With VFD For Industry-Leading Efficiency

The Daikin McQuay Pathfinder™ air-cooled chiller offers industry-leading energy efficiency and quiet operation, providing optimum operating costs and comfort throughout the life of the chiller. The chiller's quiet operation makes it ideal for sound-sensitive environments such as schools, churches and other facilities located in residential neighborhoods. Unit capacities range from 175 to 530 tons.

With three levels of operating efficiency—Standard, High and Premium—the [Daikin McQuay Pathfinder](#) chiller allows building owners to specify an HVAC system that exactly meets their requirements. The Standard efficiency model meets ASHRAE 90.1 requirements, while the High and Premium models have best-in-class efficiency, according to McQuay. An optional variable frequency drive provides impressive cost savings at part load on the High and Premium efficiency models, with up to 19.4 EER IPLV for the Premium efficiency unit.



Designed with low-speed fans with patented blade profile and a unique, single-rotor compressor to minimize mechanical vibration, the chiller's sound pressure level is rated as low as 65 dBA with no attenuation, at a distance of 30 ft per ARI Standard 370, which is a 6 dBA reduction compared to previous models. Ideal for retrofit projects, the chiller's small unit footprint can accommodate existing structures such as installation pads, walls and fences. Key components are located on the unit's periphery, allowing easy access to the most commonly serviced components. The interior of the unit under the coils has enough headroom for a service person to stand up comfortably.

All Pathfinder chillers installed in North America are D-Net™ Remote Service capable. After this service is enabled, McQuay Factory Service can support the chillers remotely to keep them running efficiently and reliably. McQuay technicians can review the current chiller operation, diagnose operational issues, and reset alarms/settings for proactive troubleshooting and responsiveness.

Environmental responsibility

The Pathfinder chiller continues the Daikin and McQuay legacy of environmental responsibility by operating with R-134a refrigerant, which has no ozone depletion potential and no phase-out schedule. The chiller helps owners qualify for [LEED®](#) Green Building Rating System certification through optimizing energy efficiency and enhanced refrigerant management. Daikin has been named one of the 100 most sustainable corporations for three years in a row by Corporate Knights, Inc.

About the new Daikin McQuay brand

The Daikin McQuay family of products offers environmentally sound solutions through the companies' combined cultures of technology sharing and continuous improvement. "The new Daikin McQuay brand represents the integration of Daikin technology and design into McQuay commercial products distributed in North America and worldwide," said Don Winter, vice president, Marketing, McQuay International. "The Daikin McQuay name will be used on products that combine Daikin technology with McQuay's applied products expertise."

About Daikin Industries Ltd.

[Daikin Industries, Ltd.](#) is a Fortune 1000 company with 2008 revenues in excess of \$12 billion and more than 40,000 employees worldwide. Daikin is engaged primarily in the development, manufacture, sales and aftermarket support of heating, ventilation, air conditioning and refrigeration (HVACR) equipment, refrigerants and other chemicals, as well as oil hydraulic products. For more information, visit [Daikin Industries Ltd.](#)

About McQuay International

McQuay International, a division of Daikin Industries, Ltd., delivers engineered, flexible solutions for commercial, industrial and institutional HVAC requirements with reliable products, knowledgeable applications expertise and responsive support. McQuay products and services are provided through a worldwide network of dedicated sales and service offices. For more information or the name of your local McQuay representative, call 800-432-1342, or visit McQuay International.

Duro Dyne's DuroZone Cable Operated Damper

Duro Dyne Corporation has evolved into the leading manufacturer of sheet metal accessories and equipment for the heating, ventilation, and air conditioning industry.

ITI For Sheet Metal, Air Conditioning Awarded Nearly \$5 Million For Green Job Training

The International Training Institute (ITI) for the sheet metal and air conditioning industries has been awarded nearly \$5 million in Energy Training Partnership grants through the American Recovery and Reinvestment Act of 2009 (Recovery Act) to train approximately 1,200 unemployed or under employed sheet metal workers for energy efficient building construction, retrofitting and manufacturing jobs.

“ITI is plowing new ground with this grant and the advanced training it will provide,” said James Shoulders, executive administrator for ITI. “This is a great opportunity for our industry to lead the wave of energy efficiency within building construction and retrofit.”

While the grant will benefit the areas of Michigan (Detroit, Livonia, Ann Arbor, Warren, Wayne); Ohio (Cleveland, Toledo, Akron, Youngstown); Missouri (St. Louis); Illinois (E. St. Louis); California (Los Angeles, Anaheim, Long Beach, Riverside, San Bernardino); New Mexico (Albuquerque, Santa Fe, Las Cruces); and Texas (El Paso, Lubbock), the training program is available to all sheet metal workers.

The training will be administered in a series of customized training courses that address the skills gap of the targeted workforce. Training will feature three areas of instruction: advanced building information modeling (BIM); HVAC testing, adjusting and balancing (TAB); and phenolic installation.

Partners in the effort include: Sheet Metal Workers International Association (SMWIA) and local affiliate organizations, Sheet Metal and Air Conditioning Contractors National Association (SMACNA) and local affiliate organizations, Joint Apprenticeship Training Center (JATC), and 13 Workforce Investment Boards and One Stop Career Centers.

The U.S. Department of Labor’s Energy Training Partnership grant program will help train workers to enter the energy efficiency and renewable energy industries, as well as green occupations within other industries. The grants invest in partnerships of diverse stakeholders including labor organizations, public or private employers in the energy efficiency and renewable energy industries and the workforce system. Bringing together the workforce expertise of these groups will allow grantees to develop programs that are responsive to the needs of both workers and employers, and that provide participants with the support needed to successfully complete training. The Energy Training Partnership grants represent \$100 million of the \$500 million available nationally in Green Jobs training grant funding made available by the Recovery Act.

For more information on ITI or to take part in the program, call 703-739-7200 or visit [International Training Institute](#).

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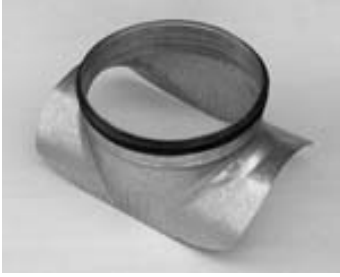
Thinking Of Ways To Improve Productivity And Profitability? Think Maxwell Systems

Maxwell Systems is a leading provider of complete construction business management software solutions. Founded in 1975, Maxwell Systems is dedicated to helping its over 10,000 customers streamline their estimating, job cost accounting, and project management processes to improved profitability.

TEMP-AIR Can Help You Earn LEED Credits

Building Green? TEMP-AIR HVAC can help you meet requirements for LEED IEQ Credits 3.1 and 3.2, Construction IAQ Management Plan: During Construction and Before Occupancy.

Introducing Safety Seal By Sheet Metal Connectors



Safety Seal

SEAL fittings from Sheet Metal Connectors, Inc. feature a double legged EPDM rubber gasket that is secured in place with a 180 degree hemmed edge. This gasket creates a leak free connection which eliminates the need to apply caulk resulting in labor savings as well as an aesthetically pleasing job. SAFETY SEAL is available on many fittings including dieform elbows and angles, EZ-Taps, reducers, saddles and more. Make every connection a safe one.

Visit us at the AHR Expo Booth #2132 and see it for yourself!



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