

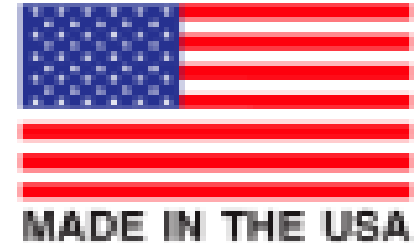
myve **systems**

GEYSER Heat Pump Water Heater



The most efficient way to heat water on the market today!

Made in the USA



- **Manufactured in Brewer, Maine. The companies, manufacturing and engineering is headquartered in Brewer, Maine and most of our suppliers are based in the United States as well.**
- **U.S. based green technology . The Geyser is based on more than 30 years of design and manufacturing expertise that was developed right here in the U.S.**
- **We have invested significant resources into the design and efficiency of the units, and we will continue to invest our resources to provide the most efficient systems for heating water in the future. When you choose the Geyser-r, you directly support **US green manufacturing jobs** and ongoing innovation in **green technology!****

How does it work?

- **How does it save so much energy?**
 - A typical (electric) water heater uses about 1.0 unit of energy (electricity) to generate 0.9 units of heat.
 - The GEYSER in a typical set-up uses that same 1.0 unit of energy (electricity) to generate more than 2.0 units of heat.
 - This difference translates into energy savings of 50%+ over a standard electric water heater.

- **How does it heat the water in your tank?**
 - The Geyser uses a pump to draw water from the storage tank.
 - This water runs through the heat-exchanger in the Geyser, picking up heat.
 - It is then pumped back in to the tank for use.

- **How is the Geyser installed?**
 - The Geyser can be placed next to the tank or in another room.
 - It comes with a kit to connect it to the tank.
 - It plugs into a regular electric outlet.

What Kind of Savings can I Expect?

(Figures based on BHE 8/09 rates)

Find out how much you could save with geyser™. Complete this form to see

Where do you live?

What fuel does your current water heater use? Average cost/unit: .173

How many people are in the house?

How much do you pay for electricity? Average cost/unit

Estimated Savings: \$ 642.40

Current Yearly Cost: \$ 1006.27
Yearly geyser™ Cost: \$ 363.87

[Reset Form](#)

Find out how much you could save with geyser™. Complete this form to see

Where do you live?

What fuel does your current water heater use? Average cost/unit: 2.9

How many people are in the house?

How much do you pay for electricity? Average cost/unit

Estimated Savings: \$ 628.58

Current Yearly Cost: \$ 992.45
Yearly geyser™ Cost: \$ 363.87

[Reset Form](#)

Significant savings also possible with Oil or Natural Gas Tanks

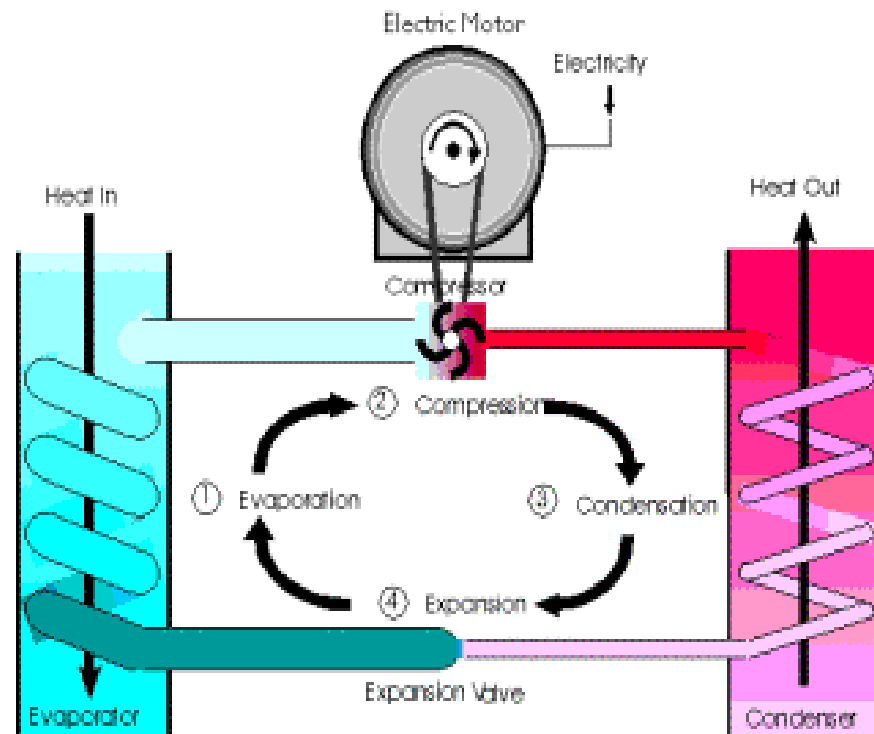
Intro to Heat Pump Technology

Heat pumps offer the most energy-efficient way to provide heating and cooling in many applications as they can use renewable heat sources in our surroundings. Even at temperatures we consider to be cold, air, ground and water contain useful heat that's continuously replenished by the sun. By applying a little more energy, a heat pump can raise the temperature of this heat energy to the level needed. A typical electrical heat pump will just need 100 kWh of power to turn 200 kWh of freely available environmental or waste heat into 300 kWh of useful heat.

The main components in a heat pump are the compressor, the expansion valve and two heat exchangers referred to as evaporator and condenser. The components are connected to form a closed circuit, as shown in the figure. A liquid, known as the refrigerant, circulates through the four components.

In the evaporator the temperature of the refrigerant is kept lower than the temperature of the heat source, causing heat to flow from the heat source to the refrigerant, and the refrigerant evaporates. Vapor from the evaporator is compressed to a higher pressure and temperature. The hot vapor then enters the condenser, where it condenses and gives off useful heat. Finally, the high-pressure refrigerant is expanded to the evaporator pressure and temperature in the expansion valve. The refrigerant is returned to its original state and once again enters the evaporator. The compressor is usually driven by an electric motor.

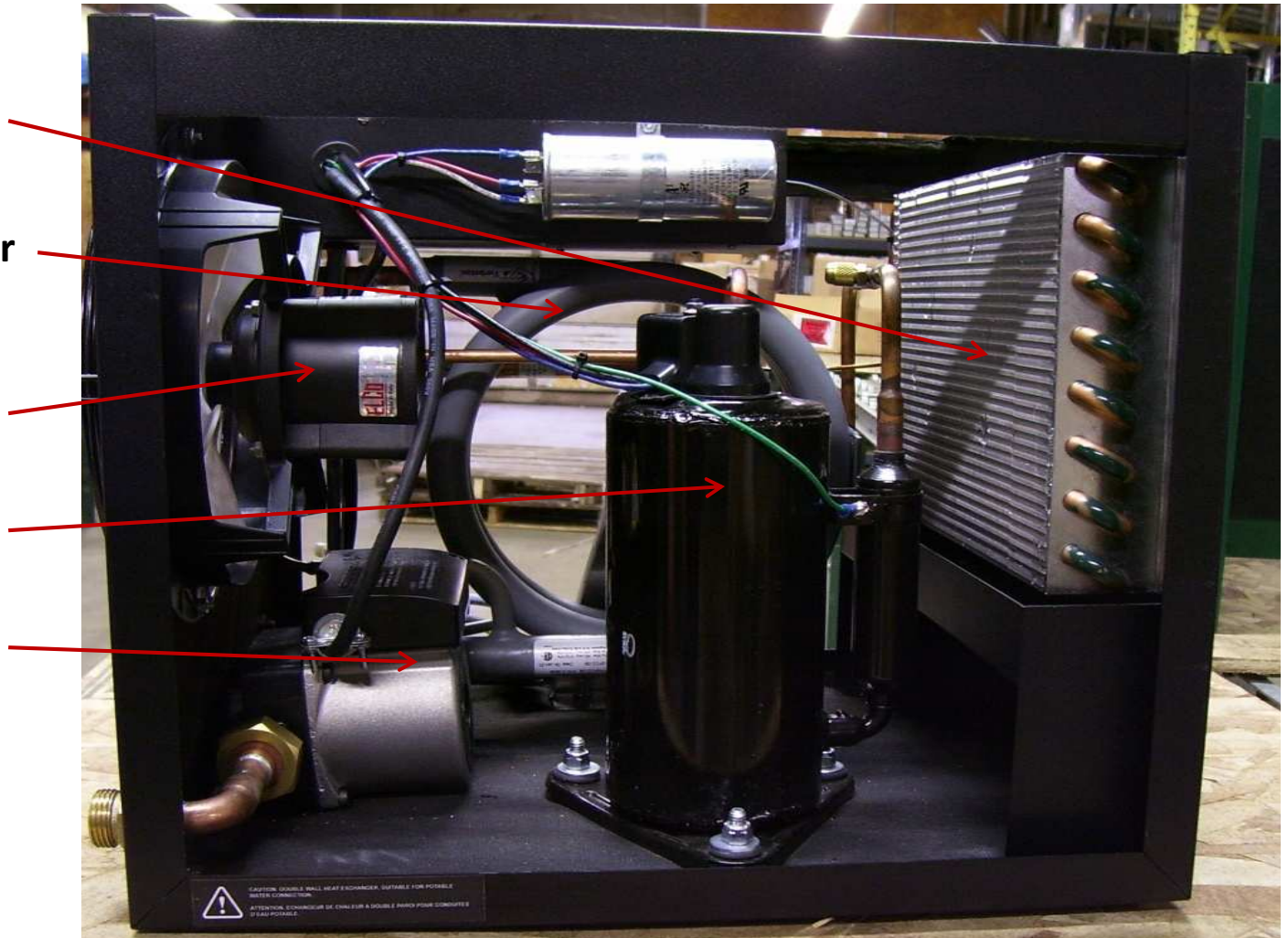
Heat Pump Technology is seen by experts as a key technology to be supported in our efforts to increase our energy independence and reduce carbon emissions.



Source: IEA – Heat Pump Centre (<http://www.heatpumpcentre.org>)

A closer look at the GEYSER

- Evaporator
- Heat Exchanger (condenser)
- Fan
- Compressor
- Pump



GEYSER Benefits

- The most efficient way to heat water on the market today: Energy savings of 50% to 60% versus traditional electric tank, reducing your monthly expenses!
- In addition to Heating Water, GEYSER dehumidifies and cools surrounding air, allowing many customers to eliminate use of their dehumidifier and save even more!
- Energy savings and use of renewable energy source (ambient air) means the GEYSER helps reduce your CO2 emissions and helps us minimize global climate change.
- Other Benefits:
 - Qualifies for the US Federal Tax Credit.
 - The GEYSER is safe and reliable.
 - GEYSER is UL listed, required by insurance companies.
 - Vented heat exchanger to meet local and national safety codes.
 - Fail safe design ensures hot water at all times.
 - Suitable for 40-120 gal. residential or light commercial water tank.
 - Fast recovery and first hour heating.
 - Engineered for flexible and easy installation.
 - Virtually maintenance free.
 - 5-year limited warranty.

GEYSER specifications

- **Energy Efficiency: 2.1 at tank temperature of 120°F, translating in energy savings of 50% - 60%**
- **Default tank temperature setting is 120°F (49° C) in accordance with DOE.**
- **Temperature adjustable from 90-140° F (32-60° C).**
- **First Hour Rating: 64 gallon (242.3 Liter) first hour rating based on 50 gallon tank.**
- **Recovery rate: 14.5 gal/hr @ 120°F tank temperature with 60°F water supply.**
- **Compressor: 6,000 BTU/hr (1,750 Watts). Note: less is better as it translates in less energy used.**
- **115 Volt/60hz for easiest installation.**
- **5-10 Amp draw (suitable for any 110 volt household outlet).**
- **Dimensions: 16" (40.6 cm) width x 15" (34.6 cm) height x 20" (46.2 cm) depth.**
- **Shipping weight 73lbs.**
- **Sound rating: 61db.**
- **Durable coated steel outer shell for years of trouble free service.**
- **QPS/SGS Listed (UL-1995 / CSA C22.2 No. 236).**

GEYSER key benefits over competition

- **1.5 times the capacity (FHR)**
- **Energy Factor of 2.1–2.3 (at 120F) - higher efficiency, higher savings**
- **Water temperature up to 140F**
- **No refrigerant line in tank, less risk and no corrosion**
- **Won't void tank manufacturer's warranty**
- **Vented Heat Exchanger (UL)**
- **Manufactured in Maine**
- **Application: Various installation options**
- **Can be moved to new tank**

Who can use it?

- **Virtually any home, condo, apartment, or light commercial installation:**
 - **Retrofit to nearly any residential hot water tank (electric, oil, natural gas or propane)**
 - **Retrofit to water tanks used in restaurants, fast food chains, small offices stores, etc. adding cooled, dehumidified air to kitchens and other workspaces, relieving need for air-conditioning**
 - **In comparison: The annual US domestic sales of water heaters is around 9 million units, incl. 3.5 million electric, 3.2 million gas and 2 million others**
- **GEYSER can be self-installed or professionally installed.**
- **Utilities and electric coops will provide financial incentives (subsidies, rebates, etc.) or engage in co-marketing activities with our reps and dealers (these activities require longer ramp-up times)**
- **Other sales opportunities include: Water heater rental programs, military housing privatization programs and others.**
- **In addition to the Federal tax credit, many states and local governments have financial incentives in place as well.**

GEYSER Summary

- Heat Pumps are a proven technology to save a large amount of energy in water heating and other applications. It is seen by experts as a key technology in our efforts to increase our energy independence and reduce carbon emissions.
- Savings of 50% - 60% over traditional water heating systems.
- Geysers can be installed on any existing or new water tank including oil, natural gas, and propane, heated units.
- The GEYSER qualifies for the federal tax credit and may qualify for other local subsidy and rebate programs.
- In addition to Heating Water, GEYSER dehumidifies and cools surrounding air, allowing many customers to eliminate use of their dehumidifier and save even more!
- Large market that includes the majority of residences and a large share of the small commercial markets (annual U.S. domestic sales of water heaters is around 9 million units, incl. 3.5 million electric, 3.3 million gas and 2 million others).

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