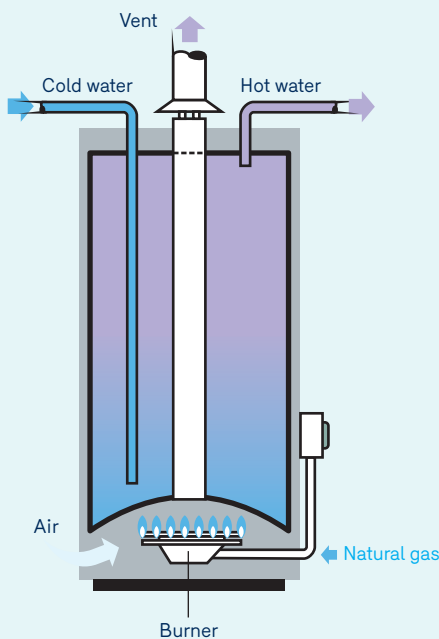


Natural gas storage tank water heater

Concept

A storage water heater is the appliance most widely used to produce hot water. It is composed of a tank mounted above a burner. The tank holds a quantity of hot water at a given temperature. An aquastat controls the temperature of the reserve and, when needed, ignites the burner.



Advantages

- The water heater recuperates rapidly, that is, the reserve quickly returns to the temperature set, most often 60°C (140°F).
- The tank is sufficient to meet peak demands, that is, the greatest needs for hot water in a short period of time.
- A simple design; easy to maintain.
- Installation varies depending on the model; the fumes can be vented either through a flue or a wall vent.
- The water heaters are available in a wide range of power and tank size.
- In recent years, with the advent of water heaters fitted with electronic ignition and motorized vent dampers for the fumes, an annual efficiency of about 80% can be achieved.
- Able to operate in autonomous mode in case of an electricity outage.

Applications

This type of water heater may be used for all applications calling for domestic hot water, particularly in the residential market.

Energy Efficiency Financial Assistance*

The financial assistance varies from \$750 to \$20,000 on the purchase and installation of a condensing water heater depending on the capacity and the make of an intermediate-efficiency appliance.

List of manufacturers

Here is a non-exhaustive list of manufacturers who are registered with and subsidized by Énergir's Energy Efficiency Grant. This list may be revised and modified when necessary. Please check its accuracy on our Web site, energir.com.

NOTE: This program is offered only to business, institutional and industrial customers.

- A.O. Smith
- Bradford White
- Giant
- GSW
- Rheem



Installation standards

1. A natural gas water heater must be installed by a contractor who holds the appropriate certificates of competence.
2. The clearance around the appliance, as specified by the manufacturer, must be respected; allow at least 90 cm around the burner for maintenance.
3. Whatever the type of venting chosen (atmospheric, wall or air vent), the requirements of the Natural Gas and Propane Installation Code CAN/CSA B149.1 in force must be respected.
4. Always refer to the manufacturer's Installation Guide.

Selection criteria

In order to determine the tank volume and power of the water heater, specify the:

1. Requirements for hot water at peak periods (litres/second or gallons/minute);
2. Recuperation time;
3. Available space.

Note: Most manufacturers offer tools on their Web sites to help determine the dimensions of a storage hot water.

.....

* Certain conditions apply.

These data are provided for guidance only. This Information Sheet is for general use and must not be considered advice. Please ask for assistance on the questions that concern you and do not rely only on the text in this Information Sheet..

Last updated August 8, 2012.
MKTG_06-2019, 8782 Colpron