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Anode rods are sacrificial devices that protect the tank from corrosion. The fumes and hot air from the gas combustion rise up in the chimney and flow outside via the chimney vent system. MORE FROM QUESTIONSANSWERED.NET Tankless water heaters, also known as demand-type or instantaneous water heaters, provide hot water only as it is needed. They don't produce the standby energy losses associated with storage water heaters, which can save money. There is risk of property damage and personal injury inherent in the use of any hot water system. Check out the Energy Saver 101: Water Heating infographic to learn if a tankless water heater is right for you, and our #AskEnergySaver discussion on water heating for more answers on efficient water heating. However, a tankless water heater's output limits the flow rate. The dip tube is long enough to supply cold water below the electric heating elements in the water heater. Periodic water heater maintenance can significantly extend your water heater's life and minimize loss of efficiency. P.O. Box 5431 • Salisbury, MA 01952-5431 • 978.462.6683 Installation Manual Energy Controller Model EC Water heaters raise the temperature of water for use in bathing, cooking, irrigation, industry and other hot-water applications. Higher water-heater thermostat settings can ensure that there is ample hot water for a large family, a busy restaurant or a business that uses a large quantity of heated water.Water Heater SafetyTank-style water heaters include anode rods and temperature-pressure relief valves. The heating elements or burners heat the cold water, which rises to the top of the water heater. How They Work Tankless water heaters heat water instantaneously without the use of a storage tank. Typically, tankless water heaters provide hot water at a rate of 2-5 gallons (7.6-15.2 liters) per minute. However, tankless water heaters have a limited ability to provide continuous hot water. If questions regarding installation arise, check with your local plumbing and electrical inspectors for proper procedures and codes. Here's how the three basic types of water heaters work.Electric Tank-Style Water HeatersThe standard water heater found in most households is a tank-style heater powered with electricity. Read your owner's manual for specific maintenance recommendations. You don't need to wait for a storage tank to fill up with enough hot water. Lowering the water-heater thermostat can help save energy and protect small children from scalding. A heat-out pipe is connected to the top of the water heater and delivers hot water from the top section of the tank.Gas-Fueled Tank-Style Water HeatersGas-fueled tank-style water heaters work similarly to electric tank-style water heaters. Look for models that have an intermittent ignition device (IID) instead of a standing pilot light. In a gas-fired storage water heater, the pilot light heats the water in the tank so the energy isn't wasted. When a hot water faucet is turned on, cold water flows through a heat exchanger in the unit, and either a natural gas burner or an electric element heats the water. Selecting a Demand Water Heater Before buying a demand water heater, you also need to consider the following: Size Fuel type and availability Energy efficiency (energy factor) Costs Installation and Maintenance Proper installation and maintenance of your demand water heater can optimize its energy efficiency. PLEASE READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING The design anticipates the proper installation and care in use of the product. A qualified installer is a person who has licensed training or a working knowledge of the applicable codes, regulations, tools, equipment and methods necessary for safe installation of an electrical component on a residential water heater. Therefore, it's best to have a qualified plumbing and heating contractor install your demand water heater. Review the manufacturer's literature to determine how much gas the pilot light uses for the model you're considering. Hot water continues flowing as long as you need it, and the appliance shuts off as soon as hot water taps are closed. However, although gas-fired tankless water heaters tend to have higher flow rates than electric ones, they can waste energy if they have a pilot light. Both anode rods and temperature-pressure valves must be maintained and tested periodically. While tank-style heaters act as storage units for hot water, tankless water heaters only heat water as needed. Manufacturers usually have the necessary installation and instruction manuals. Sometimes, however, even the largest, gas-fired model cannot supply enough hot water for simultaneous, multiple uses in large households. Temperature-pressure relief valves let pressurized hot water out of the tank to reduce risks of water-heater explosions. Proper installation depends on many factors. Advantages and Disadvantages For homes that use 41 gallons or less of hot water daily, demand water heaters can be 24%-34% more energy efficient than conventional storage tank water heaters. A dip tube brings cold water into the tank, and a heat-out pipe delivers hot water to hot water plumbing fixtures from the top of the tank. Both gas and electric tank-style water heaters heat and store water, so hot water is always available.Tankless Water HeatersTankless water heaters are also called demand-type water heaters. However, gas-fueled heaters work by heating the water in the tank via an internal metal chimney. Local codes take a precedent over instructions in this manual. To overcome this problem, you can install two or more tankless water heaters. These factors include fuel type, climate, local building code requirements, and safety issues, especially concerning the combustion of gas-fired water heaters. A gas burner supplies a flame that raises the temperature of the metal chimney. They also have easily replaceable parts that may extend their life by many more years. Also, contact your city or town for information about obtaining a permit, if necessary, and about local water heater installation codes. Most tankless water heaters have a life expectancy of more than 20 years. They can be 8%-14% more energy efficient for homes that use a lot of hot water -- around 86 gallons per day. Tankless water heaters avoid the standby heat losses associated with storage water heaters. Do the following when selecting a contractor: Request cost estimates in writing Ask for references Check the company with your local Better Business Bureau See if the company will obtain a local permit if necessary and understands local building codes. At the top of the electric tank-style heater is a connection to a cold-water dip tube that's inserted into the tank. Here you'll find basic information about how they work, whether a tankless water heater might be right for your home, and what criteria to use when selecting the right model. Tankless water heaters are available in gas-fired and electric versions. Some energy-saving devices and systems are more cost-effective to install with the water heater. Gas-fired water heaters offer higher flow rates of hot water than electric tankless water heaters. You can also install separate tankless water heaters for appliances -- such as a clothes washer or dishwasher -- that use a lot of hot water in your home. However, additional water heaters will cost more and may not be worth the additional cost. In contrast, storage water heaters last 10-15 years. Improving Energy Efficiency After your demand water heater is properly installed and maintained, try some additional energy-saving options to help lower your water heating bills. The Company cannot supervise the installation and therefore makes it a specific condition of the warranty that the customer will supervise the installation and use of this product to be sure they are performed in accordance with safe guidelines and proper local or national codes. For this reason, only qualified installers should perform the installation. For example, taking a shower and running the dishwasher at the same time can stretch a tankless water heater to its limit. The energy controller (EC) is basically a timed switch that interrupts power going to the controlled elements of the water heater based on the control program. The water heater resembles a large cylinder made of metal and is insulated. In some cases you may be able to achieve even greater energy savings if you install a demand water heater at each hot water outlet. The initial cost of a tankless water heater is greater than that of a conventional storage water heater, but tankless water heaters will typically last longer and have lower operating and energy costs, which could offset their higher purchase price. The EC does not control the temperature of the water heater. If a home or business needs a large quantity of hot water for simultaneous uses, several tankless water heaters can be installed.Water Heater ThermostatsAll types of water heaters include thermostats that the user sets to their preferred temperature. If you're determined to install your water heater yourself, first consult the manufacturer. Other applications for demand water heaters include the following: Remote bathrooms or hot tubs Booster for appliances, such as dishwashers or clothes washers Booster for a solar water heating system. The cost of operating a pilot light in a tankless water heater varies from model to model. This can sometimes offset the elimination of standby energy losses when compared to a storage water heater. This device resembles the spark ignition device on some natural gas furnaces and kitchen ranges and ovens. You turn on the hot water tap, cold water begins flowing into the tankless appliance, and the appliance begins heating the water immediately with a heat exchanger. Generalized instructions and procedures cannot anticipate all situations. As a result, tankless water heaters deliver a constant supply of hot water. Gas-fired tankless water heaters produce higher flow rates than electric ones. Tankless water heaters save money because they aren't constantly heating stored water.

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