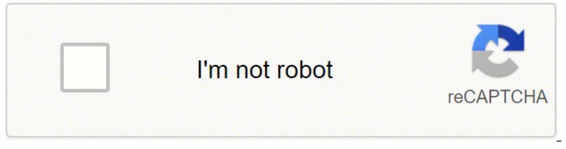

Next

How do i reset my navien water heater

Tankless water heaters are rated by the maximum temperature rise possible at a given flow rate. Therefore, to size a demand water heater, you need to determine the flow rate and the temperature rise you'll need for its application (whole house or a remote application, such as just a bathroom) in your home. It is important to note that you should never try and save money by undersizing your tankless water heater. Step 1: Determine the maximum number of devices you want to run and their total flow rate. Then, add up their flow rates (gallons per minute). This is the desired flow rate you'll want for the demand water heater. For example, let's say you expect to simultaneously run a hot water faucet with a flow rate of 0.75 gallons per minute and a shower head with a flow rate of 2.6 gallons per minute. The flow rate through the demand water heater would need to be at least 3.26 gallons per minute. To reduce flow rates, install low-flow water fixtures. Step 2: Determine required temperature rise. To determine temperature rise, subtract the incoming water temperature from the desired output temperature. Unless you know otherwise, assume that the incoming water temperature is 50°F (By using a low temperature assumption you ensure that you will not undersize your tankless unit. If you live in a warm climate your water temperature will likely be much higher.) For most uses, you'll want your water heated to around 105–115°. In this example, you'd need a demand water heater that produces a temperature rise of 55°. Step 3: Sizing Example: An average shower will be between 104–106° and uses 2.6 gallons of water. Assuming your water temperature is 40° coming into your home, and you want to produce enough hot water to run 2 showers at the same time, what temperature rise would you need to produce to accomplish this? Answer: You'll need to raise the incoming water temperature from 40 degrees to 105. You'll need to be able to heat at least 5.2 gallons of water. So you'll need a tankless water heater that can produce at least a 60 degree rise in temperature at 5.2 gallons per minute. Flow Rates How much hot water do you need at one time? Do you need to run 2 showers at the same time or maybe a shower and a couple sinks? The chart below shows the range of water usage range and average water temperatures for various fixtures. We suggest using 2.5 gpm for a shower and 1.0 gpm for a bathroom as a reference point in determining your total simultaneous water needs. Tub 4.0 GPM 102°F Shower 2.5 – 3.0 GPM 104°F Washing Machine 2.0 GPM 120°F Dishwasher 1.5 GPM 110°F Kitchen Sink 1.5 GPM 110°F For example, if you are running 2 showers at the same time, you will need 5 gallons of hot water per minute from the tankless water heater. If you were running a shower and the washing machine at the same time, you would need 4.5 gallons per minute from the water heater. In either of these situations, you will want to size the unit that meets or exceeds how much hot water you need at the same time. Note: tankless water heaters are intended to heat potable (drinking) water only and the inlet water to a tankless unit should not be pre-heated. Other Sizing Notes Gas tankless water heaters are able to produce a larger temperature rise per gpm than electric models. Most demand water heaters are rated for a variety of inlet temperatures. Typically, a 70°F water temperature rise is possible at a flow rate of 5 gallons per minute through gas-fired demand water heaters and 2 gallons per minute through electric water heaters. Faster flow rates or cooler inlet temperatures can sometimes reduce the water temperature at the most distant faucet. Recommended Reading: Loading... Loading... This article answers the question, what to do if you see an error code on the panel display of the Noritz NRC111 water heater and its remote controller. See how Noritz error codes can help you fix the water heating problem. Noritz error codes explained Noritz Most of the Noritz water heaters come with advanced technology and intelligent electronics, which is a great help in troubleshooting heating problems.The LCD display found on the control panel or remote controller provides a visual contact when the failure occurs. The numerical error code will appear, and it will flash on display.Problems such as no hot water, not enough hot water, flame loss, water too hot or cold, temperature fluctuation are just some of the issues identified through the error codes.Before attempting to solve the problem, it will be assumed that the Noritz model was correctly installed, per codes and manufacturer instructions. The gas type that is used is natural gas.Below is the list of the most common error codes, where Noritz NRC111 was taken as an example and where some codes apply to other models. If you need help, find a local plumber & get FREE quotes! Error code 10 Problem: Power drops or gas combustion continues even after the unit is turned off.Action: If the water heating system has recirculation, try to keep the temperature with a difference of 10 degrees. If the combustion continues, check if any foreign body, such as oil/grease, is on the burner. To reset the code, turn the unit off and on. Error code 11 Problem: The error code 11 is related to ignition failure.Action: The gas pressure should be checked for the correct values. Check for any obstructions in the vents as the unit might not be removing the products of combustion properly, or the fresh air supply is blocked. If the ignition rod is dirty, remove any accumulated debris; also, check for loose wiring in the ignition. Error code 12 Problem: The flame was detected, but it becomes very low, or it gets extinguished.Action: Check that there is enough air coming, so the proper gas combustion is established. Ensure that the flame rod/sensor is not covered with the debris, and if it is, clean it or replace it if necessary. Error code 14 Problem: The problem is with the thermal fuse. This is a safety element and must be replaced if broken.Action: If there is an obstructed airflow in the vent system, the water heater will operate with poor combustion. Also, check for the clogged heat exchanger due to the limescale or other impurities from the poor water quality. Eliminate the cause of the problem by cleaning or replacing the heat exchanger. Error code 16 Problem: The outgoing hot water temperature is too high.Action: Check the gas pressure and adjust it if it is needed. The heat exchanger has to be cleaned from the limescale. Reset the error code by unplugging the power and plugging it back in after approximately 20 seconds. Error code 20 Problem: The high limit switch activates due to overheating.Action: This problem is usually resolved by descaling the heat exchanger, but first check if the problem is with the high limit switch, and replace it if broken. Error code 29 Problem: The neutralizer does not drain the condensate properly, so the water level exceeds the correct level.Action: Ensure proper draining of the neutralizer (clean it if it is blocked) or clean the water level sensor from the moist. Also, check that the condensate piping is sized correctly and with the right slope. Error codes 31 and 32 Problem: Problem with the inlet (cold water side) or outlet (hot water side) thermistor.Action: Check the elements for the proper work. Compare Quotes from Top-rated Water Heater Experts!Free, No-commitment Estimates. Compare Quotes from Top-rated Experts!Free, No-commitment Estimates. Error code 33 Problem: Another problem with the thermistor, but this time on the heat exchanger.Action: Replace if broken. Error code 59 Problem: Problem with the combustion due to the low gas BTU input.Action: Check the gas pressure and make the necessary adjustments if needed. If the unit is installed above the recommended elevation, make sure to make the proper adjustments. Make sure there is no blockage in the venting system or debris on the burner. Error code 61 Problem: Fan failureAction: Use the voltmeter to check the voltage on the fan. If the voltage is OK and per specs, check the fan operation and circuit board. Error code 65 Problem: Main flow control valveAction: Check the main servo on the valve for blockage, failure and replace it if needed. Error code 66 Problem: Bypass flow control valveAction: The same solution as for the above error code, except checking the main valve servo, check the bypass servo. Error code 70 Problem: Circuit board failureAction: Replace it if faulty - Find Plumbers In Your Area - Error code 71 Problem: Gas valve drive circuitAction: Use the voltmeter to check the voltage on the circuit board and replace it if there is a failure. The error code 71 is often seen when the battery backup or generator is used, so there is a different voltage supply. Error code 72 Problem: Flame rod detection abnormalityAction: Check for the correct grounding and flame detection circuit on the circuit board. Error code 73 Problem: Issues with the settings on the circuit boardAction: The circuit board needs proper programming, or the dip switch was changed when the power was supplied to the water heater. You can reset the error code by disconnecting the power for 30 seconds and plugging it back in. Error code 76 Problem: No communication in multi-system setupAction: Check the quick connect cord and reset the unit by disconnecting the power. Error code 760 Problem: Remote controller functionalityAction: Reset the unit. Check the wiring connection and that only one remote is used. Error code 90 and 99 Problem: Problem with the gas combustionAction: Check for the obstructed venting, improper gas burning (flame shape and color change). Ensure the water heater gets the recommended gas pressure and a proper mixture of fuel and air (per specs). After fixing the problem, reset the error code by disconnecting the unit. Error code 92 and 93 Problem: Neutralizer life cycle is at the end of its life cycleAction: Replace the neutralizer and reset the burner timer.If any of the Noritz error codes appear on the screen or the unit doesn't show any but has problems, it is recommended to contact the technical service from Noritz or a licensed technician. The above list of the error codes and presented solutions of the issues are just for reference. Find Trusted Plumbers & Get Free Quotes Related

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