

## bosch propane tankless water heater manual

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## Book Descriptions:

# bosch propane tankless water heater manual

Refer to this manual. For In the United States The installation must conform 2. That would be 2000 cubic feet for the AquaStar 38B alone. WARNING Do not reduce the vent pipe size. The heater must be vented to the outside following all local ordinances and specifications for installing a gas appliance vent or chimney. The heater must be located as close as practicable to a vertically rising chimney or vent that has a listed vent cap at its termination point. A MASONRY CHIMNEY minimum 4" diameter gas vent pipe metal double wall Type B, or an approved clay flue liner or a listed chimney lining system must be used when venting into a naturally drafting, internal masonry chimney. GAS CONNECTIONS Turn on all appliances that force air out of the building. Before connecting the gas supply, check the rating plate on Open all doors between the AquaStar and these other the right side of the front cover to be sure that the heater is. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. C. Use only your hand to push in or turn the gas control buttons. Slide button to right to single flame position AIR SCREEN 2. If using LP gas, be sure that the size of the propane tank is adequate to 1. BBT North America with service, removal or reinstallation of parts. All such BBTNA will furnish a replacement heat exchanger and will costs must be borne by the Purchaser. Foschan Guangdong Waitsfield, VT 05673 C. T. 528315 P.R. China Phone 8006423111 Fax 802 4966924 www.boschhotwater.com. Volts Amps Watts for water heater Bosch tankless water heater CleanGet up your wallet Phone Support Gas Products Technical Support 8006423111 Electric Product Technical Support 8663302729 Check rates for parts, service, and yearly maintenance before counting Deliming will not restore full efficiency. Only takes 45 minutes. Assemble parts for flushing and do it Are n't you glad you squeezed that tankless in the closet, over the Because they dont. <http://www.evergreensoma.com/nbloom/fckuploads/compaq-evo-n410c-manual.xml>

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Faucet must fill quart in 20 seconds and gallon in 80 seconds Crossover and Low water pressure can reduce flow Promise of unlimited hot water not consistent with water conservation. Used Good Accessories may have cosmetic damage. Item will come repackaged. Something we hope you'll especially enjoy FBA items qualify for FREE Shipping and Amazon Prime. Learn more about the program. Please try again. Please try again. Please choose a different delivery location. Water pressure range of 10-150 PSI In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. Register a free business account Please try your search again later. These tankless water heaters are 98% efficient and no temperature or pressure relief valve is necessary. The Tronic 3000 should be hardlined by a professional to ensure safety and longlife. Whether you need the Bosch Tronic 3000 for a basement wet bar, patio kitchen station, utility room, garage, attic, or even an RV or boat, hot water will quickly be in hand! Only having access to cold water from a sink is just not useful, and plumbing a hot water line to every sink in a home or business requires time and money. To get hot water where it's needed, when it's needed, a better solution is to install the Tronic 3000 from Bosch a point-of-use electric tankless

water heater. In addition, the Tronic 3000 takes up far less space than a traditional heater, and can be wall mounted right under the sink, taking up practically zero space in your home. Because they run on your home's electricity and don't hold water, less overall maintenance is required. With less wait for water, savings of energy and therefore money! and less space, the benefits of choosing tankless heaters for your home or business are obvious. The unit runs at 98% thermal efficiency, so standby loss is minimal. Plus, it mounts on the wall in any direction and is compact and lightweight, making it a great choice for a variety of spaces. <http://www.elmor.com.pl/userfiles/compaq-evo-n610-manual.xml>

This item requires professional installation and hardwiring. With its top performance specifications and versatility, the US3 Tronic 3000 is a great way to get the hot water going in kitchens, offices, at warehouses, service stations, stores, and concession stands. Advantages include 98 % efficiency with minimal standby loss. Amazon calculates a product's star ratings based on a machine learned model instead of a raw data average. The model takes into account factors including the age of a rating, whether the ratings are from verified purchasers, and factors that establish reviewer trustworthiness. Please try again later. Sabrina 1.0 out of 5 stars Why a company like Bosh let such a miserable product been sold under her name is a shame. Useless to say after several months this piece of sh. Make sure to adjust the water pressure to limit the flow or the water will not get hot. Not for high volume of water. It comes with one low flow sink aerator. If you want hot water you have to install a 220 volt unit. It took a little doing to get it installed. The water comes out really hot, but it can easily be mixed with cold water, without losing either hot or cold completely, like on other tankless water heaters. Don't waste your money on this product. Buy a different one! It was an Amazon repackaged and didn't include everything that was described as being included. Now that the warranty is done the unit has failed completely. Me encuentro en proceso de devolucion, si tienen un poco de espacio debajo del lavabo o area de instalacion les recomiendo comprar Bosch ES8 Tronic 3000 Calentador de agua, 9.47 L, Blanco Mas barato y eficiente. Sorry, we failed to record your vote. Please try again Sorry, we failed to record your vote. Please try again In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. If you have problems accessing your account, please contact us at 18887574774 and we'll help you out.

Provides endless hot water for one major application at a time one shower at a time. Can replace 40gallon storage tank water heater. Optional Accessory Model AQ1 Power vent with builtin freeze protection when venting horizontally. Add item to cart for lowest price. Manufacturer's warranty still applies. Join our mailing list to receive exclusive offers and coupons. We have no relationship with advertisers, products, or services discussed at this website. But the building occupants were not happy with their hot water supply for several reasons. But when visitors are staying in the home the 30gallon water heater tank was usually insufficient for all of the hot water uses and users. That explains those ceramic tiles stacked around the heater base a wind screen. If you check the detailed photo below at WATER HEATER FLUE VENT DIAMETER you'll see red arrow that the original installer just took off the water heaters draft hood and set it aside. The appliance had never been properly vented nor was it in compliance with the manufacturer's specifications. In our detailed photo below the blue arrow points to a pressure only type relief device; no other safety valve was found on the heater. Examples may involve fuel piping, chimneys and vents, even installation working space. Our photo above left shows the main water shutoff for a rooftop water storage tank. Knowing where this is ahead of time can avoid a flood. Details of this procedure are at WATER HEATER DRAIN PROCEDURE. This water heater is going to be used as an intermediate storage tank for someone's homemade solar hot water system. As you'll see in photographs below we found a few interesting conditions including The original chimney, enclosed in a concrete wall, had corroded through; since the whole installation was outdoors the risk of flue gases bothering building occupants seemed pretty low, but there remained a concern that following corrosion, concrete or other debris could fall into and block the flue an unsafe condition.

<http://www.drupalitalia.org/node/73418>

We measured the diameter of the flue vent connector on the new Bosch instant water heater above right, confirming that it wanted a 5inch flue vent or chimney. We had to chop open a concrete wall, remove the 4inch chimney and install a 5inch diameter chimney in the same location. We want to know the location of the main gas valve ahead of time to be certain that in an emergency we can quickly and safely shut off gas supply to the building. Notice that for safety reasons there can be no shutoff valve on the hot water outlet line on the heater. Check water heater installation location clearances, spaces, safety, protection from elements, wind, etc. Otherwise you risk death of building occupants due to potential flue gas and carbon monoxide poisoning. We listen for flame and we feel the exhaust be careful about burns! If the flow of water is too low, typically less than Rheem and Bosch table above, for example, requires a .66 GPM flow rate to ignite the burner on smaller capacity units and a higher flow rate on higher capacity units. Some manufacturers address this specifically. Our photo left illustrates a Rheem EcoSense instant water heater for sale in a Home Depot store in Phoenix, Arizona 2012. This valve should be connected to a tube that discharges no more than six inches above floor level so hot water wont scald anyone nearby. The tube should be as large as the tank fitting and the tube end should never be threaded, capped or plugged. Because the units were installed outdoors the dangerous carbon monoxide that was being produced had not resulted in a catastrophe. Once the occupants learned how to work with the low pressure instant water heater system the result was the ability to run a single shower with plenty of hot water, on demand, without running out. But there were a few surprises and disappointments to get by first.

<http://hilalbaskul.com/images/canon-powershot-s2is-digital-camera-manual.pdf>

Despite the packaging claim that the Bosch N13BP LP gas instant water heater was designed to support two simultaneous showers, you are not necessarily going to see that performance at every installation. If the occupants want a really hot shower they run just one shower at a time. Bosch recommends feeding a dedicated cold water line directly to the water heater and carrying separate cold from the cold source and hot from the heater to the location where hot water will be used. But when installing a tankless water heater at many buildings you may find that the existing piping was not routed by that schema. In the installation tested here we found that The manufacturers specifications indicate that the high capacity two shower Model 13BP rated at 13 liters maximum flow requires a minimum flow of 4.2 liters per minute about 1.1 gpm in U.S. gallons. Drop below that flow rate and the heater turns off to avoid damage. We had trouble believing that the flow at the water heater was really falling below 1.1 gpm, but nevertheless we found the heater turning off unpleasant for those in the shower. We were able to obtain quite successful singleshower operation by turning the hot water fully on, then carefully opening the cold water tap in the shower, bath, or sink just enough to drop the temperature to a desired level. At a sink or other plumbing fixture has a rather low water flow rate for any reason clogged sink strainer, water saving faucet or shower head, etc we get no hot water at all. For the water heater installation discussed here we had to change out one highflowrate shower head that produced dribbling water flow rather than a good spray. We figured that to our surprise, the new tankless water heater itself was providing enough restriction in hot water flow rate that the superhighflow shower head no longer worked. We changed that shower head out for a more conventional shower head that provided a bit more backpressure and produced a better spray.

<http://hillstromplasticsurgery.com/images/canon-powershot-s2-15-manual.pdf>

The successful shower head that worked just fine is shown in our photo at left. These problems are going to be more noticeable at lowpressure instant water heater installations than at water supply systems served by sufficient municipal water pressure or by buildings served by a private water system using a pump and pressure tank that assures higher water pressures than the pure

gravityoperated rooftop tank systems common in some areas. You may find that you need more actual flow than the claimed lowflow cutoff point stated by the manufacturer, perhaps because of building piping characteristics or from water pressure source variations. Ditto for sink faucets. Most tub faucets run plenty fast and wont give trouble. So be sure you are specifying the proper model and fuel type when buying a tankless water heater. Indeed it is possible to convert most gasfired heating appliances among fuels. But conversion to the proper pressures, combustion air settings, and fuel jets is necessary unless the appliance has been delivered already set up for the fuel you intend to use. Mokena, IL 60448 United States Tel. This paper also addresses some of the potential problems with poor, unprofessional installations and the solutions to those problems. The paper also points out the responsibilities of the installer. Sounds like a plane in our yard. No happy about this. Or you may be hearing different equipment. Most tankless heaters are very quiet. S44 5YQ UK United Kingdom Alan Carson is a past president of ASHI, the American Society of Home Inspectors. Carson Dunlop Associates provides extensive home inspection education and report writing material. The text is intended as a reference guide to help building owners operate and maintain their home effectively. Field inspection worksheets are included at the back of the volume. Special Offer For a 10% discount on any number of copies of the Home Reference Book purchased as a single order. InspectAPedia.

com editor Daniel Friedman is a contributing author. Or choose the The HOME REFERENCE eBook for PCs, Macs, Kindle, iPad, iPhone, or Android Smart Phones. Special Offer For a 5% discount on any number of copies of the Home Reference eBook purchased as a single order. InspectAPedia.com editor Daniel Friedman is a contributing author. For manufacturers, the growing demand makes tankless water heaters a hot no pun intended! industry to invest in. The Bosch Group company was founded in 1886 in Stuttgart, Germany, and today has more than 300 subsidiaries in over 150 countries. While the brand is fairly diverse covering industries such as automotive, industrial technology, consumer goods, and building technology, its thermotechnology subset is pretty innovative in its approach to making the best tankless water heaters. Bosch claims the best warranty in the industry for its tankless water heaters. Most of the heaters reviewed below offer a 15year limited warranty on the heat exchanger, and a twoyear warranty on all other parts. But, as always, be wary of how far a limited warranty will actually get you—freezing may not be covered, or if your water is too hard and causes quick scale buildup, it might compromise your warranty. We strongly encourage you to find installation manuals online and read each warranty for yourself to ensure you know what you're buying, since this isn't a small purchase for your home. With that being said, Bosch is pretty impressive across the board with its options for tankless water heaters, balancing price and features nicely. We have done the hard work of rating Bosch's line of tankless water heaters. We've picked a few that we think stand out for their unique features—read on to find out more. Bosch Tankless Water Heaters Reviews Bosch Tronic WH27 Electric Tankless Water Heater Bosch has labeled this tankless water heater as a wholehome heater—but note that it is made to heat water for one major appliance at a time.

[festivaldeliteraturadepereira.com/wp-content/plugins/formcraft/file-upload/server/content/files/1626c511b60510---carlsbro-cobra-90-pa-manual.pdf](http://festivaldeliteraturadepereira.com/wp-content/plugins/formcraft/file-upload/server/content/files/1626c511b60510---carlsbro-cobra-90-pa-manual.pdf)

If you have a small home with light hot water demands, or if your home has between one and three occupants, this would be a good fit for you. Other suitable applications include an office unit with a small bathroom attached, an inlaw suite, or a garage apartment. You will have to get used to using just one hot water demand at a time—don't run the dishwasher and the clothes washer at the same time, for instance, or you'll just have cold water washing your dishes. Due to its smaller capacity and its electric heat source, the Tronic WH27 is cheaper than even the lowend gaspowered models. In the electric model price range, it falls about in the middle. With a 55degree temperature rise common for warmer climates you can expect a max of 3.3 gallons per minute GPM of water flow. It

gets an impressive 97% efficiency rating, so it is EnergyStar certified. The Tronic WH27 is a 240volt tankless water heater, and if lesser voltage is used, you will have reduced electric output ability in the heater. The WH27 requires 120 amps of electricity. For installation, 120 amps would be supplied through three 40amp doublepole breakers in your breaker box, so check to make sure you have the space available. Your house must have at least a 200amp service, which older homes likely don't have. Check the Latest Price on Amazon Bosch Therm 330 PN NG Natural Gas Tankless Water Heater For those looking for a good tankless water heater in a small residential setting, the Therm 330 PN might be just the right fit. You will find this natural gas heater at the mid point of the price range. The Therm 330 has a manual Piezo ignition system that starts the heater without an electrical connection. It's really best for those with one or two occupants who use a low volume of hot water, and are okay with using just one major appliance at a time. You can expect to see about 3.3 GPM of water flow in a 35degree temperature rise, which is really a ground water inlet temperature of 7080 degrees Fahrenheit.

This spunky little heater operates with about 77% thermal efficiency, and a 0.68 energy factor. Especially helpful to know is that if you have a home with inch gas line connections and you don't want to deal with the costly upgrade of installing inch pipe that some other tankless water heaters require, the Therm 330 PN NG would be an option to consider. The max output on the Therm 330 PN NG is 75,000 BTUs. For installation, it also easily vents with a galvanized B vent and a natural draft. Check the Latest Price on Amazon Bosch Therm 520 HN NG Natural Gas Tankless Water Heater This Therm 520 HN NG from Bosch is definitely one of a kind. Bosch is looking to attract a very specific customer with this wholehouse tankless water heater. It is a noncondensing natural gas unit, with max a BTU of 117,000, and it's designed for indoor use. The real unique factor is in the ignition source—this unit uses no electricity or gas to start the heater. Instead, a waterpowered turbine uses the water flow to ignite the burner. This battery and electricityfree ignition means that this heater is the perfect fit for remote homes or spaces without access to electricity, or even areas with more rough or stormy weather or power outages. Have a hunting cabin or rustic getaway tucked away from society. The Bosch Therm 520 HN NG would be a great fit for you. You will still need to have natural gas access to fuel the heater, but for the ignition itself, it's powered without it. A few of the little details you'll get an Energy Factor of 0.78 with this heater, and you can expect it to power two appliances or hot water taps at the same time. With a 35degree temperature rise for those in very warm climates, with an incoming water temperature of 7080 degrees Fahrenheit or above, you can expect 5.2 GPM of water flow. For a 55degree rise, capacity would be at about 3.4 GPM.

That patented technology from Bosch does push the Therm 520 HN NG's price to the mid to high end of the natural gas line, but it's still a fairly reasonably priced wholehome heater. Bosch Therm 520 HN LP Liquid Propane Tankless Water Heater This Bosch Therm 520 HN LP is a really unique tankless water heater. Bosch is looking to attract a very specific customer with this wholehome model. It is a noncondensing liquid propane unit, with a max BTU of 117,000, and it's made to be installed indoors. The real unique factor is the ignition source—this unit uses no electricity and has no standing pilot light to start the heater. Instead, a waterpowered turbine uses the water flow to ignite the burner. That patented technology from Bosch does put the Therm 520 HN LP's price in the middle of the price range of the propane tankless water heater line, but it's still a fairly reasonably priced wholehome heater. This battery and electricityfree ignition means that this heater is the perfect fit for remote homes or spaces without access to electricity, or even areas with more rough or stormy weather or power outages. Have a hunting cabin or rustic getaway tucked away remotely. The Bosch Therm 520 HN LP would be a great fit for you. You will still need to have propane access to fuel the heater, but for the ignition itself, it's powered without it. You'll get an energy factor of 0.78 with this heater, and you can expect it to power two appliances or hot water taps at the same time. With a 35degree temperature rise for those in very warm climates, with an



incoming water temperature of 70°F or above, you can expect 5.2 GPM for your water flow. For a 55°F rise, this capacity drops to about 3.4 GPM. Bosch Therm 520 PN LP Propane Tankless Water Heater When you're searching for a tankless water heater, it can be hard to discern the simple differences between various models. First, let's talk about price.

The Therm 520 PN LP falls right in the middle of the price range, and is a good option for propane users. The Therm 520 has a manual Piezo ignition system that starts the heater without an electrical connection. It's really best for those with up to three occupants who use low to average levels of hot water, and are okay with using just one or two major appliances at a time. You can expect to see about 5.2 GPM of water flow in a 35°F temperature rise, which means a ground water inlet temperature of 70°F in a fairly warm climate. You can check online or possibly with your water provider to see what your incoming groundwater temperature is. At a 55°F temperature rise, you'll get a water flow of about 3.3 GPM. Make sure you install the Bosch Therm 520 PN LP indoors. It will give you about 78% or more thermal efficiency, and you can expect a max BTU of 117,000. For installation, it also easily vents with a galvanized B vent and a natural draft.

Bosch Therm 330 PN LP Propane Tankless Water Heater For customers who are seeking the best tankless water heater for a smaller residential setting, the Therm 330 PN might be just the right fit. You will find this liquid propane heater in the mid to high section of the price range. The Therm 330 has a manual Piezo ignition system that starts the heater without an electrical connection. It's really best for those with up to two occupants who use lower levels of hot water, and are okay with using just one major appliance at a time. You can expect to see about 3.3 GPM of water flow in a 35°F temperature rise, which is really a ground water inlet temperature of 70°F. This spunky little heater operates with about 77% thermal efficiency, and a 0.68 energy factor. If you have a home with 1/2" gas line connections and you don't want to deal with the costly upgrade of installing 1/2" pipe that some other tankless water heaters require, the Therm 330 PN LP would be an option to consider.

The max output on the Therm 330 PN LP is 75,000 BTU. For installation, it also easily vents with a galvanized B vent and a natural draft.

Conclusion Remember, there is no single best tankless water heater because everyone's setup is different. The Bosch tankless water heaters in our review have impressed users with their ability to innovate and provide nonelectric ignition starts in a variety of ways. While we know you'll still have to use a gas source to power the unit, it is a nice option for those who want to live off the grid. Those who use solar or wind power with standby options for propane or natural gas would do well to choose a tankless water heater from the Bosch list above. More than anything, we want you to have all the facts for each fuel source and brand that you might be considering in a comparison of tankless water heaters. We have scoured listings and websites, installation manuals, and warranties to find out all we can about installation, price, features, and the reliability of each brand and product we review. Sometimes it can be hard to find specific information about the variances between models and brands, and we hope that you have found all that you are looking for when you read our reviews. All Rights Reserved. We are a participant in the Amazon Services LLC Associates Program, an affiliate advertising program designed to provide a means for us to earn fees by linking to Amazon.com and affiliated sites. A tankless water heater provides an endless supply of hot water and reduces energy costs. The heating element is covered under warranty for a period of five years. All other parts are covered under a one year warranty. If the tankless water heater develops a problem, troubleshoot it before calling for service. Disconnect the power supply to the water heater before removing the cover. Connect the supply line to the blue inlet on the water heater. Push the reset button in the center of the cutout. Reconnect the power.

The switch activates when hot water is turned on. If the switch does not activate, call for service. Open the cover and turn the screw counterclockwise to loosen it. Pipe joints should not be sealed with plumber's glue. This can reduce the flow of water. Turn counterclockwise to open fully. Turn the

hot water faucet on in a nearby sink. If there is a steady stream of water, the cold water is flowing into the hot water lines. Call a plumber to repair the crossover between hot and cold water lines. Not only are they highly efficient, but they can also save you money by heating water only on demand. Although uncommon, issues can arise if something isn't working correctly within your water heater. Here are six of the most common problems and maintenance concerns for tankless water heaters: Mineral Buildup, System Overload, Cold Water Sandwich, Air Supply or Exhaust Blockage, Ignition Failure, Flame Failure. Keep reading to learn what signs to look for when identifying these issues and how to fix them.

**Problem 1: Mineral Buildup** Whether you use a traditional or a tankless water heater, you need to keep an eye out for mineral buildup inside your water heater. Hard water in contrast with soft water is water with a high mineral content, and the harder your water, the higher the potential for damaging mineral buildup. Calcium and Magnesium are the two minerals that most often cause scaly buildup, and this can impair the function of your water heater if you don't address it. To avoid damage, flush your water heater every six months with the Eccotemp EZFlush System Descaler Cleaning Kit. You can also use a water softener to slow the buildup.

**Problem 2: System Overload** Depending on your tankless water heater's capacity, too many simultaneous hot water applications such as multiple showers running can overload your water heater. Your water heater may struggle to supply the hot water needed or shut down altogether if it becomes overloaded.

If this happens, you should reduce the demand for hot water by limiting simultaneous applications, and you may want to consider resetting your unit. However, if your tankless water heater frequently becomes overloaded, you should consider either upgrading to a tankless water heater with a higher capacity or adding a second unit. Although a second unit might seem like a large investment, it can actually save you money in the long run since you'll use less water while waiting for hot water to arrive and less gas to heat the water. You turn on the shower and feel warm water at first, but then get blasted with several seconds of cold water before the temperature slowly climbs back up. Here's what happened: When the first shower ended, some hot water was remaining in the pipes on the way to the shower. When the second shower began, the initial warm water you felt was the trapped water. The further your water has to travel from the water heater to its destination, the more noticeable the gap. Unfortunately, there's no way to prevent this, but now that you're aware of the problem, you can avoid jumping in the shower until the cold water has passed.

**Problem 4: Your Air Supply or Exhaust is Blocked** For most tankless water heaters, the display will present an error code to inform you that your air supply or exhaust is blocked. This means your water heater is having issues with either combustion air or venting. First, inspect all vent pipes to ensure they are connected properly and free from puncture holes. Refer to your product manual to make sure the clearance requirements are being met, as installing your water heater too close to other objects can block the air supply and create a fire hazard. Birds' nests, rodents' nests, and wasps' nests can also block your venting, so be sure to thoroughly examine all vents that are located or lead outside your home.

**Problem 5: Ignition Failure** There are several reasons your water heater could fail to ignite.

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