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> BN-LINK Electric Mini-Tank Water Heater 2.7 Gallon Under Sink Water Heater Instruction Manual

BN-LINK CP-C190

BN-LINK Electric Mini-Tank Water Heater Instruction Manual

Model: CP-C190

Brand: BN-LINK

1. PRODUCT OVERVIEW

The BN-LINK Electric Mini-Tank Water Heater is designed to provide fast, reliable hot water for various applications. Its compact size makes it ideal for under-sink installations, small kitchens, bathrooms, offices, or RVs where space is limited. Featuring a plastic shell and glass-lined tank, it offers excellent thermal insulation and resistance to corrosion, rust, and leakage. The unit operates at 1440W and 120V, ensuring quick heating and efficient performance.



Figure 1.1: Front view of the BN-LINK Electric Mini-Tank Water Heater.

2. WHAT'S IN THE BOX

Upon unboxing your BN-LINK Mini-Tank Water Heater, you should find the following components:

- BN-LINK Mini-Tank Water Heater Unit (Model CP-C190)
- Product Manual
- Pressure Relief Valve (T&P Valve)
- Teflon Tape
- Plastic Washers/Gaskets
- Power Cord (pre-attached, 3.28 feet long)

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Video 2.1: Unboxing the BN-LINK Mini-Tank Water Heater, showing included components and initial inspection.

Instant Hot Water Supply



Temperature Adjustable



Dish Washes



Wash Vegetables



Hot Water Wash



Shaving

Figure 2.1: View of the water heater unit and accessories as packaged.

3. INSTALLATION GUIDE

The BN-LINK Mini-Tank Water Heater offers flexible installation options, including wall-mounted or floor-mounted configurations. It can be used independently for a single sink or installed in series with a larger system to supply hot water to multiple sinks.

3.1 Safety Precautions

- **Pre-Use Water Filling:** Ensure the tank is completely filled with water before powering on the unit. Operating the water heater without water can cause damage to the heating element and impact performance.
- **Electrical Safety:** To reduce the risk of electric shock, disconnect from power supply before replacing temperature-limiting devices. Always plug into a Ground Fault Circuit Interrupter (GFCI) protected outlet.
- **Temperature Control:** Hot water can produce 3rd-degree burns. Water at 60°C (140°F) can cause 3rd-degree burns in 5 seconds. Water at 54°C (130°F) can cause 3rd-degree burns in 30 seconds. Thermostat controls are factory set at 49°C (120°F). Contact qualified service personnel for adjustments if needed.
- **Pressure Relief Valve:** The included T&P (Temperature and Pressure) relief valve must be installed to release internal high pressure and ensure the safety of the tank.

3.2 Connecting the Unit

The unit features 1/2" NPT standard pipe fittings for hot water outlet (red) and cold water inlet (blue). Ensure all connections are secure and leak-free using Teflon tape on threaded connections.

1. **Install T&P Valve:** Carefully remove the plastic cap from the pressure relief valve port on top of the unit. Apply Teflon tape to the threads of the T&P valve and screw it into the designated port. Tighten securely with a wrench to prevent leaks.
2. **Connect Cold Water Inlet:** Connect your cold water supply line to the blue-marked inlet. Ensure proper adapters are used if necessary (e.g., 3/4 inch garden hose to 1/2 inch NPT).
3. **Connect Hot Water Outlet:** Connect your hot water line to the red-marked outlet, leading to your faucet or desired point of use.
4. **Purge Air:** Before plugging in the unit, open the hot water faucet at the point of use and allow water to flow until all air is purged from the tank and lines. This ensures the tank is full and prevents damage to the heating element.



ETL Listed Multiple Protections Ensure Your Safety

		
Overheat Protection	Dry Combustion Protection	Over Pressure Protection
		
Anti-frozen Protection	Grounding Protection	Electrical Isolation Protection

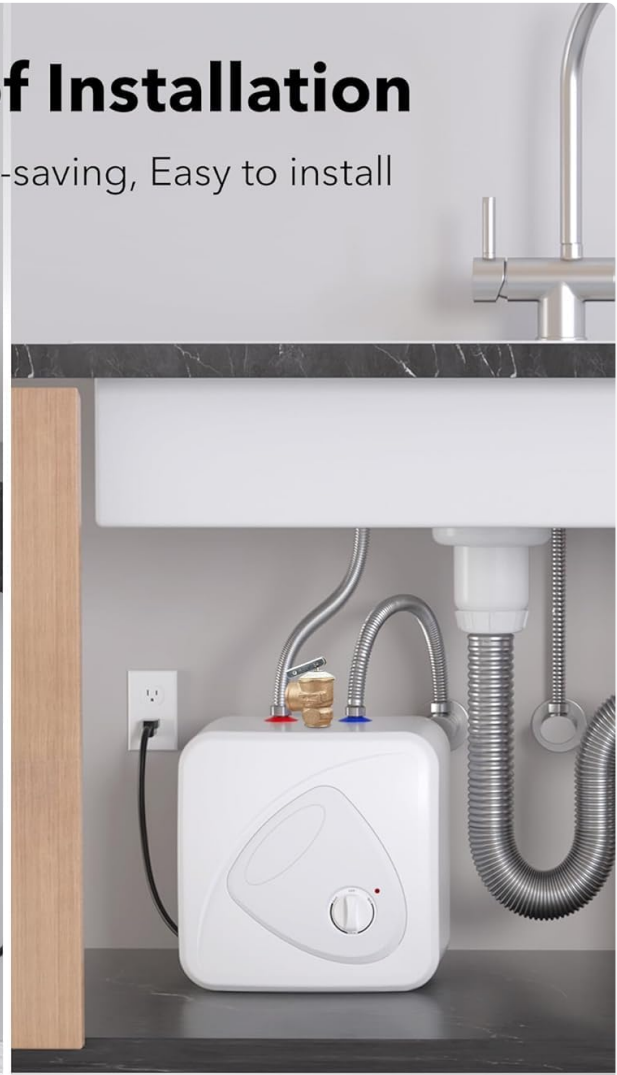
Figure 3.1: Examples of wall-mounted and floor-mounted installations.

Two Types of Installation

Compact size, Space-saving, Easy to install



Wall-Mounted



Floor-Mounted

Figure 3.2: ETL Listed Multiple Protections including Overheat, Dry Combustion, Over Pressure, Anti-frozen, Grounding, and Electrical Isolation Protection.

CORROSION RESISTANCE & DURABILITY

Enameled Crystal Liner

Temperature & Pressure

Relief Valve Made in USA

Discharge Line Drain

Drain pan
reommended (not include)

Hot Water Outlet
1/2"NPT

Cold Water Inlet
1/2"NPT

Maintenance
Panel

Indicator
Light

Housing
2.7Gallon

Thermostat
Knob



Power Cord 3.28FT

Figure 3.3: Independent/Stand-Alone and Supplemental/In-Line Installation methods.

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Video 3.1: Detailed steps for installing the T&P valve and connecting water lines.

4. OPERATING INSTRUCTIONS

Once the unit is properly installed and filled with water, you can begin operation.

1. **Power On:** Plug the water heater into a GFCI-protected 120V outlet.
2. **Set Temperature:** Use the front-mounted rotary knob to adjust the desired water temperature. The temperature range is from 86°F to 167°F (30°C to 75°C). The "Ideal" setting is typically around 120°F (49°C).
3. **Heating Indicator:** A red indicator light will illuminate when the unit is actively heating water. It will turn off once the set temperature is reached.
4. **Energy Saving:** The V0-grade flame-retardant foam insulation helps reduce energy consumption by minimizing heat loss.

INSTANT HOT WATER SUPPLY

Care Your Family Sweetly

Voltage

120V

Power

1440W

Ampere

12A

Frequency

60Hz

Temperature range

86°F-167°F

NW

14.4 LB

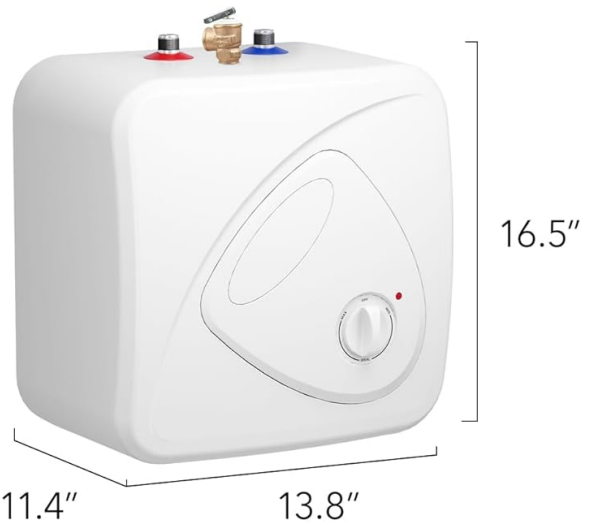


Figure 4.1: Temperature adjustable knob and applications for instant hot water.

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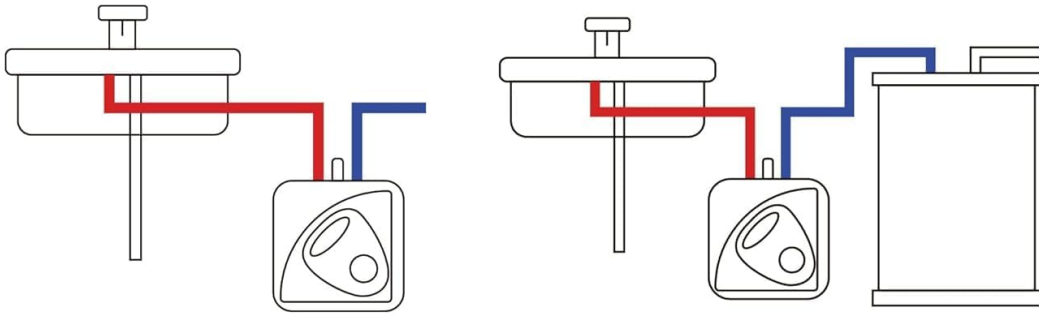
Video 4.1: Demonstration of temperature adjustment and water output.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your water heater. While specific maintenance details are not provided in the general manual, it is recommended to:

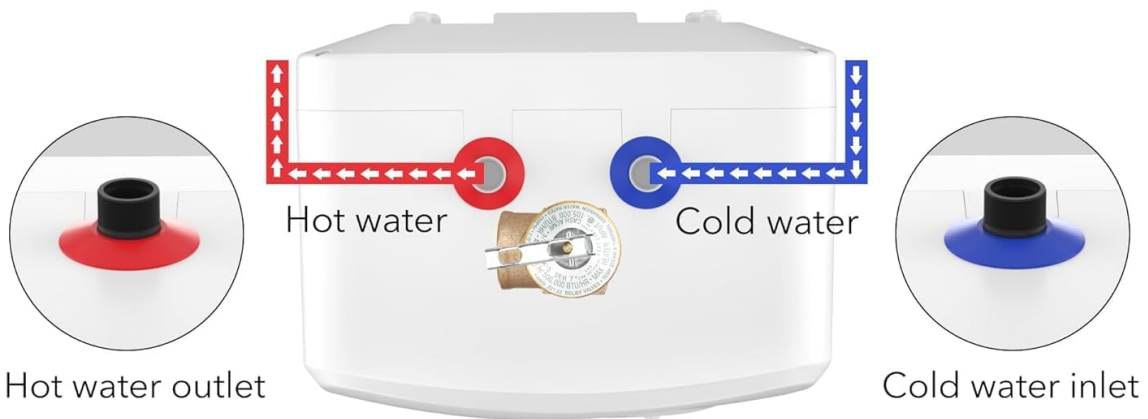
- Periodically check for any leaks around the connections and the unit itself.
- Inspect the T&P relief valve annually to ensure it is functioning correctly.
- Consider flushing the tank periodically to remove sediment buildup, especially in areas with hard water. Consult a qualified technician if unsure.

Multiple Connection Methods



Independent/Stand-Alone Installation

Supplemental/In-Line Installation



1/2" NPT Standard Pipe Fitting

Figure 5.1: Internal components and connections of the water heater.

6. TROUBLESHOOTING

If you encounter issues with your water heater, consider the following common troubleshooting steps:

- **No Hot Water:**
 - Check if the unit is plugged in and the power outlet is functioning.
 - Ensure the temperature knob is set to a desired heating level (not "Off").
 - Verify that the tank is full of water and all air has been purged.
- **Water Not Hot Enough:**
 - Increase the temperature setting on the rotary knob.
 - Allow sufficient time for the water to heat up, especially after initial setup or if the tank was drained.
- **Leaks:**
 - Check all plumbing connections for tightness. Apply more Teflon tape if necessary.
 - Inspect the T&P relief valve for drips; this may indicate excessive pressure or a faulty valve.
- **Noisy Operation:**

- Sediment buildup can cause noise. Consider flushing the tank or consulting a professional for descaling.

For persistent issues or complex problems, contact qualified service personnel or BN-LINK customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	BN-LINK
Model Number	CP-C190
Product Dimensions	10.75"W x 13.75"H
Item Weight	14.5 pounds
Capacity	2.7 Gallons (10 Liters)
Wattage	1440 watts
Voltage	120 Volts
Maximum Temperature	167 Degrees Fahrenheit (75°C)
Maximum Operating Pressure	150 Pound per Square Inch
Special Features	Anti-Freezing Protection, Dry Combustion Protection, High Water Pressure Protection, Overheat Protection, Temperature Lock
Mounting Type	Wall or Floor Mounted
ETL Listed	Yes

8. WARRANTY AND SUPPORT

Specific warranty information is typically provided within the product packaging or on the manufacturer's official website. For any product support, troubleshooting assistance, or warranty claims, please refer to the contact information provided in your product manual or visit the official BN-LINK website.

For additional resources and product information, you may visit the [BN-LINK Store on Amazon](#).