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Model Number: 20160314

Little Giant 20160314, 3HTHP Propane Heater, High Pressure Basic Starter Package, Hoses Fittings, 120000 BTU

Manufacturer: Little Giant

Little Giant 20160314 3HTHP High Pressure Propane Water Heater Starter Package – 120,000 BTU

Part Number: 20160314

The Little Giant 3HTHP high pressure propane water heater is built to add serious heat to truckmounts, portable extractors, pressure washing systems, and other high-pressure cleaning applications. This 120,000 BTU heater helps boost water temperature for cutting grease, tar, gum, wax, oily soil, and heavy traffic lane buildup. This package includes the main starter components most users need to begin setting up a Little Giant high pressure propane heater system. Additional fittings, mounting hardware, plumbing, venting, propane tank, and application-specific parts may still be required.

Key Benefits

- 120,000 BTU propane heat for strong hot water performance
- High pressure heater design for use with higher-pressure cleaning systems
- Ideal for carpet cleaning, truckmounts, portables, pressure washing, and restoration work
 - Thermostatically controlled heat for more consistent operating temperature
 - Helps remove difficult soils including grease, gum, wax, oils, and traffic lane residue
 - Starter package format includes heater, regulator, propane hose, relief valve, ignitor, and solution hose kit

Package Includes

- Little Giant 3HT 120,000 BTU propane heater, high pressure model
- Little Giant spark ignitor V-1 for propane heaters
- Little Giant PR1000 pressure relief valve
- Little Giant #204-00 propane gas regulator rated up to 140,000 BTU
- Little Giant propane hose
- Little Giant solution hose connection kit, 1/4" ID x 15 ft

Important High Pressure Note

This is the high pressure version of the Little Giant heater. Standard Little Giant heaters are commonly used in lower pressure ranges, while the high pressure version is designed for higher pressure cleaning systems. Always use the correct pressure relief valve and never exceed the heater, hose, fitting, pump, wand, or accessory rating.

Important: The included PR1000 pressure relief valve is set for 1000 PSI. If your system pressure exceeds the relief valve setting, hot water or steam may discharge from the relief valve. Route the relief valve discharge safely to a recovery tank or safe discharge location as required.

Propane Supply Requirements

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The propane regulator and hose must be properly sized for the BTU demand of the heater. A regulator that is too small can reduce gas flow, reduce burner performance, and lower hot water output. Little Giant states the #204-00 regulator is rated at 140,000 BTU/hr, which is sufficient for #1, #2, and #3 Hotomatic heaters. Use a minimum 1/2" inside diameter propane hose for #1, #2, and #3 HT Hotomatic heaters. Undersized gas hose can restrict propane flow and reduce burner performance.

Water Connections

- Cold water inlet: top inlet, 1/4" male pipe connection
- Hot water outlet: rear outlet where pressure relief valve is installed
- Additional elbows, fittings, pressure hose, mounting brackets, and plumbing parts may be required depending on your installation.

Safety Warnings

- Propane equipment must be installed and operated by a qualified person.
- Always check local, state, fire, vehicle, insurance, and propane regulations before installation.
- Always store and use propane cylinders outside the vehicle or building unless your installation is specifically approved for that use.
- Never light or operate the heater until the coil is completely full of water.
- Dry-firing the coil can ruin the heater and void warranty coverage.
- Check all propane fittings with soapy water before lighting. Bubbles indicate a leak.
- Keep fire extinguishers available at every service vehicle door opening.
- If you smell propane or rotten eggs, immediately turn off the LP tank and stop operation.

Common Uses

- Truckmount carpet cleaning systems
- Portable extractor heat boosting
- Pressure washing hot water conversion
- Hard surface cleaning
- Grease and oil removal
- Restoration and flood cleanup support equipment

Why Buy This Starter Package?

Buying the heater alone can leave you searching for several required parts after the fact. This starter package bundles the Little Giant high pressure heater with the major propane and water connection components commonly needed for installation. It is still not a complete universal installation kit, because every truckmount, portable extractor, pressure washer, trailer, or van layout is different.

Frequently Asked Questions

Is this the high pressure version?

Yes. This listing is for the Little Giant 3HHP high pressure propane heater starter package.

Does this include every part needed for installation?

No. This package includes the main heater starter components, but additional fittings,

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hoses, elbows, brackets, venting, propane tank, plumbing parts, and installation labor may be required.

Can this be used with a truckmount?

Yes. Little Giant propane water heaters are commonly used to add or boost heat on truckmount carpet cleaning systems.

Can this be used with a portable extractor?

Yes, when properly installed with compatible pressure, flow, hose, fitting, and safety components.

Can this heater make steam?

This heater can produce very hot water and may discharge steam under some operating conditions, especially at the pressure relief valve. Always install and route the relief valve safely.

What happens if the propane regulator or hose is too small?

An undersized regulator or propane hose can starve the burner, reduce gas pressure, and lower the amount of hot water produced.

Can I run the heater without water in the coil?

No. Running the heater without water in the coil is called dry-firing. Dry-firing can damage or rupture the coil and is not covered under warranty.

Recommended Installation Checklist

- Confirm system pressure and flow rate before installation.
- Confirm propane regulator BTU capacity.
- Confirm propane hose inside diameter.
- Install the pressure relief valve before operation.
- Route relief valve discharge to a safe location.
- Fill the coil completely with water before lighting.
- Leak-test all propane fittings with soapy water.
- Keep propane cylinders properly stored and secured.
- Confirm compliance with local propane and vehicle codes.

SEO Search Terms

Little Giant 20160314, Little Giant 3HHP, Little Giant 3HT high pressure propane heater, 120000 BTU propane water heater, carpet cleaning propane heater, truckmount water heater, portable extractor heat booster, high pressure hot water heater, propane pressure washer heater, Hotomatic 3HT heater starter package.

Package Includes

Note the items below are not going to be all the parts you will need to set up your heater but the main parts to start with.

Little Giant Spark Ignitor V-1 for Propane Heaters PLI3



Little Giant: Pressure Relief Valve PR1000 psi

BTU Little Giant: Pressure Gas Regulator #204-00 for use up to 140,000

Little Giant RHA10 Foot Propane Hose

Little Giant: 3HT 120,000 BTU Propane Heater (High Pressure)

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Little Giant Solution 1/4 In Id Hose 15 ft Connection Kit 20141428

Important Note: It is extremely necessary that the Gas Pressure Regulator used to supply the heater with LP Gas has a capacity rating higher than the consumption of the heater. Too small a regulator will decrease the gas flow, the gas pressure and the amount of hot water produced. The Model #204­00 Regulator is rated at 140,000 BTU/Hr., which is sufficiently sized to supply the gas for Models #1, #2 or #3 Hotomatic® heaters. The Model LV4403C9 Regulator is rated at 575,000 BTU/Hr., which is the model we recommend for the #4 HT Hotomatic. The top water inlet is 1/4" Mip. No pressure hose or 90 degree elbow is provided. If you need a pressure hose or brass fitting to hook up your heater, please let us know.

A gas supply hose that is too small will reduce the flow rate of the LP Gas. This reduces the gas pressure at the burner and the amount of hot water produced. Use a 1/2" I.D. Hose minimum for the #1, #2 or #3 HT Hotomatic heaters. Use a 3/4" I.D. Hose for the #4 HT Hotomatic heater.

We Have Been Making Water Heaters Since 1904. This long tradition of efficient performance is the result of rigid control of manufacturing details and the use of the finest materials and craftsmanship available. Little Giant Water Heaters have proven to be dependable under the true test of constant daily use. They will provide long, care free service and the maximum is satisfaction.

Set Up instructions

Little Giant Set Up Diagram
Little Giant Use Instructions

Operation Instructions for Hotomatic Gas Water Heaters

*****Failure to follow these instructions could result in damage to your heater, a fire, and/or injury*****

Install fire extinguisher at every service vehicle door opening.

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1. Hook heater to LP gas supply tank with certified LP gas hose with regulator. The hookup is on the left side of the Unitrol gas valve. ****Make sure the Unitrol gas valve is in the OFF position.**** You should also make sure you are not smoking, and there are no open flames or sparks within 20 feet of the vehicle.
2. Turn on the gas on the tank and check to ensure there are no gas leaks. You can use a spray bottle with soapy water mix to spray on the joints where your fittings are. If you see bubbles, you have a leak.
3. Make sure the pressure relief valve is installed into the "female" "HOT" water outlet on the back side of the heater. **ATTENTION:** Use of this heater without a pressure relief valve voids your warranty and could cause damage to your heater and/or result in severe injury.
4. Hook your wand into the "HOT" water outlet where the pressure relief valve is.
5. Hook the cold water supply to the "male" nipple at the top of the heater.
6. Turn on water, check for leaks, and double check to make sure coil is full. Failure to do so could cause a dry-fire situation on your coil, which will ruin your heater coil and could cause a rupture. A dry-fire is running your heater without water in the coil, which softens the metal and voids your warranty.
7. Once the heater is full of water, you may turn the Unitrol gas valve to the "PILOT" position to ignite the pilot flame. You will then need to push the plunger down numerous times and hold it down on the last time to purge any air out of the lines.
8. While holding the plunger down, you will then push the spark igniter down numerous times until you can see the pilot flame ignite. Keep holding the plunger down for 10-15 seconds so the pilot flame will heat up the thermocouple. You may then release the plunger, and the pilot flame should stay on. **IMPORTANT:** If the pilot flame does not light on the initial try, or goes out when you release the plunger, wait 5 minutes so that any built up gas will dissipate and reduce the risk of an explosion. After 5 minutes, start again at #7.
9. Once the pilot flame is lit, you may then turn the on/off/pilot valve to the "ON" position and set the thermostat to the desired temperature range. **AT THIS POINT, DOUBLE CHECK TO MAKE SURE YOUR WATER SUPPLY IS ON!!!** The heater should then fire its main burner and heat until the desired temperature is reached. Once the temperature is reached, the main burner will shut off and the heater will go into a standby mode with the pilot flame still burning. If the pilot flame should ever go out, do not attempt to relight it for at least 5 minutes to allow dissipation of any built-up gas inside the heater.
10. If you ever smell rotten eggs, this is a sure sign you are leaking propane gas or have a build-up of gas in the immediate area. **STOP WHAT YOU ARE DOING AND TURN THE GAS VALVE OFF ON YOUR LP TANK.**
11. These heaters are designed to run 600psi max unless you have the high pressure coil which has the capacity of 1400-1500psi max. Running a psi higher than the recommended specs for your heater, even once, can result in a coil rupture and is NOT covered under warranty. We will know if you do, so don't... Please note the pressure relief valve is set for 1000 psi so once you set your pressure over

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1000psi steam will spray out this relieve valve! Be sure to install a hose from the relief valve discharge to your vacuum tank or under your service vehicle.
12. These heaters have the capacity of heating the water to 180+ degrees F, please take any and all precautions to protect yourself, and your equipment, by following these instructions.

Related Documents

Hotomatic Instructions
Hotomatic Operating Setup Diagram
Hotomatic 2HT Parts List
Hotomatic 3HT Parts List
Hotomatic H Parts Breakdown Page 1
Hotomatic H Parts Breakdown Page 2
Hotomatic HT Parts Breakdown Page 1
Hotomatic HT Parts Breakdown Page 2
Hotomatic Troubleshooting Guide Page 1
Hotomatic Troubleshooting Guide Page 2

Be sure to check with your local state rules on using propane.
Always store and use propane bottles outside.
Read more about propane use at
<https://www.rrc.state.tx.us/media/8606/homesafehome.pdf>

Optional

Magnetic Clamp-On Water Softener Descaler for Truckmount & Portable Carpet Cleaning Machines 20260425

- Helps prevent scale buildup in pipes, coils, heaters, and carpet cleaning heat exchangers
- Reduces or eliminates routine monthly descaling in many applications
- Clamp-on installation — no cutting, plumbing, salt, chemicals, or cartridge replacement
- Maintenance-free design — no salt, resin, plastic pellets, filters, or media to flush
- Improves heat transfer efficiency by helping keep mineral buildup off heater surfaces
- May improve water flow / GPM by helping reduce mineral restriction over time
- Only 4 inches long for installation in tight areas on portable and truckmount equipment
- Longer Equipment lifespan

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Availability: This product was added to our catalog on Monday 14 March, 2016

Steambrite Supply