

Installation Kit

for HLC Heaters with Series 32 Tanks

Please check the attached parts list to verify all parts were included with the installation kit.

Order of Parts from Propane Tank to Heater

[Outlet of Propane Tank]

- 1) POL Fitting (w/ excess flow)
 - 2) 1/4" NPT Brass Coupler
 - 3) 1/4" NPT 3/8" tube SAE 45 Flare male connector
 - 4) SAE 45 Flare Long Nuts for 3/8" tube
 - 5) 3/8" OD Copper Tubing
 - 6) SAE 45 Flare Long Nuts for 3/8" tube
 - 7) 1/4" NPT 3/8" tube SAE 45 Flare male elbow
 - 8) High Pressure Regulator
 - Use the regulator enclosure with built in regulator bracket to attach the regulator to the bottom of the trailer and protect it from salt and road spray.
 - #8-32 Thread Cutting Screws are included to attach the regulator
 - 9) 1/2" to 1/4" NPT Brass Bushing
 - 10) 1/4" NPT 3/8" tube SAE 45 Flare male elbow
 - 11) SAE 45 Flare Long Nuts for 3/8" tube
 - 12) 3/8" OD Copper Tubing
 - Drill 5/8" holes in the trailer supports to run the tubing up to the front of the trailer. This will allow room for the 3/8" tubing and the included grommets (to protect the copper).
 - Use the partially cushioned clamps to hold the tubing on the front wall of the trailer.
 - 13) SAE 45 Flare Long Nuts for 3/8" tube
 - 14) 1/4" NPT 3/8" tube SAE 45 Flare male connector
 - 15) Low Pressure Regulator
 - Use the mounting bracket to attach the regulator to the front of the trailer
 - #8-32 Thread Cutting Screws are included to attach the regulator
 - When all fittings are attached to the regulator, snap on the regulator cover.
 - 16) 3/8" to 1/4" NPT Brass Bushing
 - 17) 1/4" NPT 1/4" tube SAE 45 Flare male connector
 - 18) 3 ft Flexible Hose with 1/4" fittings
 - Use 5/8" clamps to prevent hose from vibrating excessively and to hold it in place.
 - 19) 1/4" NPT 1/4" tube SAE 45 Flare male connector
- [Bulkhead Fitting on Inlet of Heater]

Tips for Installation

Always follow best practices and applicable code for propane fuel systems when installing the fuel system. Be sure that all fuel lines are securely fastened against vibration.

Recommended Order of Installation

- 1) Attach parts 1 thru 3 above together and attach to the tank
- 2) Attach parts 7 and 9 to the high pressure regulator
- 3) Attach the high pressure regulator to the regulator enclosure and attach the regulator enclosure to the bottom of the trailer. If possible, attach the enclosure to one the beams that support the floor of the trailer in an area protected by the propane tank.
- 4) Attach parts 13, 15, and 16 to the low pressure regulator
- 5) Attach parts 11 and 12 to heater
- 6) Mark the location for the low pressure regulator
- 7) Attach the low pressure regulator to its mounting bracket
- 8) Attach the mounting bracket to the trailer and the hose to the regulator
- 9) Determine the route for the copper tubing from the low pressure regulator to the high pressure regulator.
- 10) Drill 5/8" holes for the copper tubing into the trailer supports and install the grommets.
- 11) Pull the copper tubing into place. You may need to add a lubricant to the copper (compatible with rubber and copper) to help the tubing slide thru the grommets.
- 12) Trim the copper to length. Leave a little extra length to allow for contraction of the copper with the cold and in case a flare needs to be redone.
- 13) Slide the long nuts onto the tube and flare the ends of the tubing.
- 14) Attach the tubing to the fittings on the regulators
- 15) Determine the route for the copper tubing from the fittings on the propane tank to the high pressure regulator.
- 16) Trim, flare, and attached the copper tubing. Drill routing holes if necessary.
- 17) Place the cover on the low pressure regulator.
- 18) Use the included clamps to secure the tubing and hose against vibration. Plug any unused holes in side of regulator with the included snap-in plastic plugs.
- 19) Pressure test the system and complete any other necessary steps to meet code.