TANKLESS WATER HEATERS

Fully modulating, gas fired, tankless water heater with sealed combustion and power vented flue. Supplies hot water to domestic hot water systems (directly or indirectly) and can be used with water storage tanks, recirculation systems, and/or combined domestic & heating applications.

NON-CONDENSING CONCENTRIC VENT

FEATURES:

CONCENTRIC VENT DESIGN

FIELD CONVERTIBLE FROM NATURAL GAS TO PROPANE

COMPLIES WITH SCAQMD RULE 1146.2 AND OTHER AIR QUALITY MANAGEMENT DISTRICTS WITH SIMILAR NOX EMISSION REQUIREMENTS OF 14 NG/J OR 20 PPM

MAXIMUM FLOW RATES UP TO 10.0 GPM

COPPER HEAT EXCHANGER

25x better heat transfer than stainless steel thus stabilizing outgoing water temperature quicker and reducing pressure drop across the heat exchanger.

INDOOR MODELS ONLY

LTI-510C CAN BE USED IN BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS

Easy-Link up to 4 units (no additional parts or accessories needed)

Multi-link up to 20 units

COMPLIES WITH LEAD FREE STANDARDS

SAFETY FEATURES:

Built-in Freeze Protection

Manual Reset Hi-Limit (Up to 194°F)

Overheat Cutoff Fuse

Inlet and Outlet Thermistors for Constant Temperature Monitoring

Air Fuel Ratio Rod

Flame Sensor

VENTING AND COMBUSTION

Direct vent APNC35 concentric vent system

Vertical or Horizontal Vent

Termination Installation

43' Max Length, 4 Elbows max (87° elbows = 5' equivalent length)

Power Direct Vent

Electronic Ignition - No Pilot Light

OPTIONAL ACCESSORIES

Isolation Valve Kit (9007604005)

Remote Control (9009069005)

Product Preserver (9008871005)

Multi-Unit Controller (9008300005)



INDOOR MODELS LTI-310C, LTI-510C

WARRANTY

15-year limited warranty on heat exchanger in residential applications

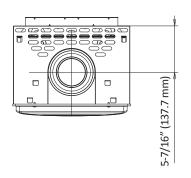
6-year limited warranty on heat exchanger in commercial applications

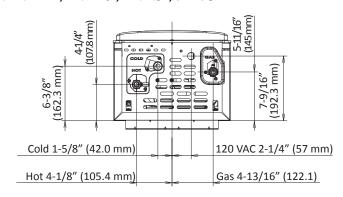
5-year limited warranty on all parts



Model Number	Туре	Gas Consumption Input		Inlet Gas Pressure*				Hot/Cold	Gas	Dimensions in Inches			Unit
		Minimum BTU/H	Maximum BTU/H	Minimum in. W.C.	Maximum in. W.C.	UEF	GPM**	Connections	Connection	Height	Width	Depth	Weight (lbs)
Indoor Models													
LTI-310C-N	Natural	15,000	190,000	4.0	10.5	0.81	8	3/4" NPT	3/4" NPT	20-1/2	13-3/4	10-1/2	55
LTI-510C-N	Natural	15.000	199.000	4.0	10.5	0.81	10	3/4" NPT	3/4" NPT	20-1/2	13-3/4	10-1/2	55

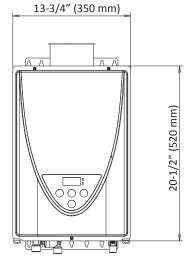
INDOOR MODEL DIMENSIONS CLEARANCES: TOP 12", BOTTOM 12", FRONT 4", BACK .5", SIDES 3"



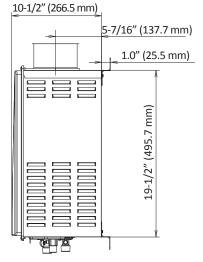


Top view

Bottom view



Front view



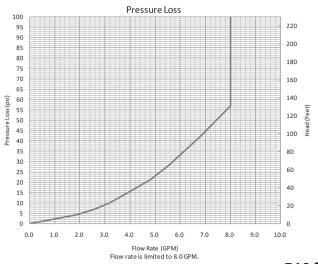
Side view

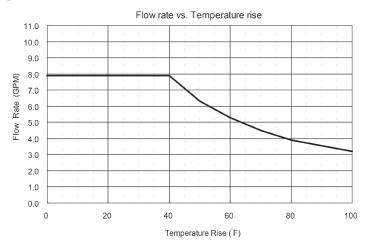
¹⁵⁻¹⁵⁰ psi water pressure. 40 psi or above recommended for maximum flow.
*Field gas convertible from natural gas to propane. Conversion kit is included with the heater.

^{**}For Propane, minimum inlet gas pressure is 8.0 in. W.C. and maximum inlet gas pressure is 14.0 in. W.C.

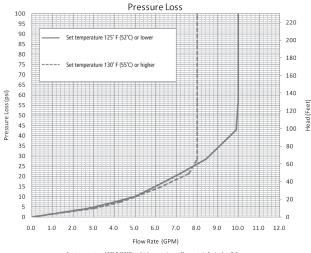
^{***}Current numbers based on factory testing; 0.5 gpm required for activation; 0.4 gpm required for continuous fire after initial ignition. Certified from sea level to 10,100 ft. elevations.

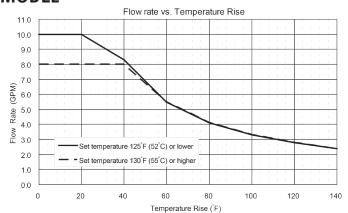
310C MODEL





510C MODEL





Set temperature 125° F (52°C) or higher, maximum flow rate is limited to 8.0 gpm.

SUGGESTED SPECIFICATIONS FOR THE LTI-510C-N

The fully modulating, on-demand, non-condensing gas fired tankless water heater shall be Lochinvar Tankless Water Heater model LTI-510C-N, having a maximum input rating of 199,000 Btu/h and available in natural gas (NG). For use with propane (LP) gas, the heater shall be field converted using the factory supplied conversion kit. The conversion kit shall be supplied with the heater. The heater shall have 3/4 in. male NPT water and gas connections. The inlet gas supply pressures shall be 4.0 in. WC (min.) up to 10.5 in. WC (max) for NG and 8.0 in. WC (min.) up to 14 in. WC (max.) for LP. The heater shall incorporate an integrated temperature controller that will provide diagnostic information, fault history, and heater set temperature. The heater shall operate using 120 V / 60 Hz power source. The heater will incorporate a factory installed power cord.

The indoor heater shall be vented with a 3"/5" direct vent APNC35 concentric vent with a length not to exceed 43 ft. (equivalent), terminating horizontally or vertically with no more than four 87° elbows.

The water heater shall use a commercial grade copper alloy, fin tube heat exchanger with quick release brass or bronze waterways. The heater shall be controlled by an onboard solid-state printed circuit board which uses the following factory installed components: thermistors to monitor water temperature; a flow sensor to measure flow rate; a flame sensor to monitor combustion; and an air-fuel ratio rod to measure and adjust air input in order to maintain optimal combustion efficiency. The heater also consists of inline fusing and surge absorbers for electrical surge protection, an electronic spark igniter, aluminized stainless steel burners, hi-limit switch to monitor water temperature, modulating gas valve, overheat cutoff fuse, and dual freeze protection that incorporates heating blocks and the ability to automatically fire the heater to protect the heat exchanger.

The heater can manifold to Easy-Link up to 4 heaters to provide additional capacity. The Easy-Link controls shall be built onto the onboard solid-state printed circuit board and does not require external controls. The linking control wire shall be supplied with the heater. A Multi-Unit controller, 9008300005, can manifold 5-20 heaters. The Easy-Link and Multi-Unit Controller shall modulate the system for the most efficient performance. The Easy-Link and Multi-Unit Controller shall rotate the priority heater every 12 hours of operation time or 100 starts for balanced duty/cycle operation.

The heater models are design certified by CSA according to ANSI Z21.10.3, approved for sale in the United States, has a minimum energy factor of 0.82, meets the energy efficiency requirements of the U. S. Department of Energy and ASHRAE 90.1, complies with SCAQMD Rule 1146.2 and other air quality districts with similar requirements for low NOx emissions of 14 ng/J or 20 ppm, and shall be certified to NSF 5 Standards.

> For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.











