

LT SERIES



Wall-Mounted Modulating, Condensing, Tankless Water Heater

LT199NXX1 and LT199PXX1



Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Submittal Data

Project Name:

Location:

Contractor:

Standard Features

- Wall-mounted design with wall bracket included
- Indoor or outdoor (with opt. kit)
- 0.96 Uniform Energy Factor
- 15:1 turndown
- 185°F max water temperature allows for residential or commercial use
- Cascadable up to 16 units (can include up to 2 recirc heaters)
- ENERGY STAR® qualified
- AHRI certified
- Low lead compliant with NSF/ANSI 372
- Low NOx system exceeds the most stringent NOx regulations
- Natural or propane
- Sealed combustion chamber
- Pre-mix metal fiber burner
- Vent with PVC, CPVC, stainless steel or polypropylene
- Horizontal or vertical direct vent
- Vent and air pipe lengths of up to 150 equivalent feet (each)
- Two 2" vent screens included
- Bottom water connections
- 304 stainless steel primary and secondary heat exchangers
- Direct electronic ignition with automatic flame sense
- Built-in condensate trap and drain
- Inlet air filter
- Inlet water filter
- Overheat cutoff switch
- Water leakage detector
- Exhaust temperature sensor
- Water temperature sensor
- Spare gasket kit included

Tankless Water Heater Data

Number of Units

Heater Type

☐ Natural Gas LT199NXX1

☐ Propane LT199PXX1

Accessories for Field Mounting

☐ Condensate Neutralizer

☐ Cascade Rack System

☐ Polypropylene Common Vent System

☐ Cascade Cable (one per heater)

☐ Piping Manifold System

☐ Non-Return Valve for PVC/CPVC Common Vent System

☐ 3" Vent / Air Pipe Screen



Heater Data

Model	Gas Type	Max Input		Min Input		Turndown Ratio	AHRI Certified Uniform Energy Factor	Product Weight		Shipping Weight	
		MBH	<i>kw</i>	MBH	<i>kw</i>			lbs	<i>kg</i>	lbs	<i>kg</i>
LT199NXX1	Natural	199	58.3	18	5.3	15:1	0.96	78	35	89	40
LT199PXX1	Propane	199	58.3	18	5.3	15:1	0.96	78	35	89	40

Model	Gas Type	Water Connection Size	Water Pressure		Gas Connection Size	Gas Pressure	
			psi	<i>kPa</i>		in. W.C.	<i>kPa</i>
LT199NXX1	Natural	3/4" NPT	15-150	103.4-1033.5	3/4" NPT	3.5-10.5	0.86-2.58
LT199PXX1	Propane	3/4" NPT	15-150	103.4-1033.5	3/4" NPT	8.0-14.0	1.97-3.45

Domestic Hot Water

Capacity						Minimum Water Flow	
35°F Temp Rise		45°F Temp Rise		77°F Temp Rise			
GPM	l/m	GPM	l/m	GPM	l/m	GPM	l/m
11.1	42	8.7	33	5.1	19	0.5	1.9

Clearances

	For Installation From Non-Combustible and Combustible Surfaces		Suggested Service Clearances	
	inches	<i>cm</i>	inches	<i>cm</i>
Top	10	25	18	46
Back	1	2.5	1	2.5
Front	4	10	40	101
Side	4	10	8	20
Bottom	10	25	24	61

Electrical Data

Power Supply		Power Consumption		
Main Supply	Maximum Current	Standby	Operation	Anti-Freeze
120V 60Hz	Less than 2A	2.7W	74W	53W

Venting System

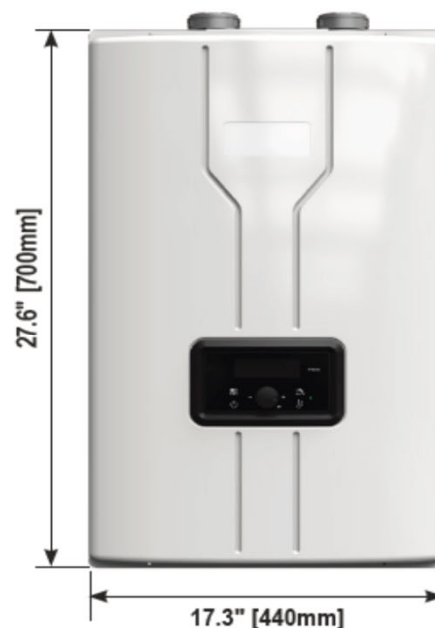
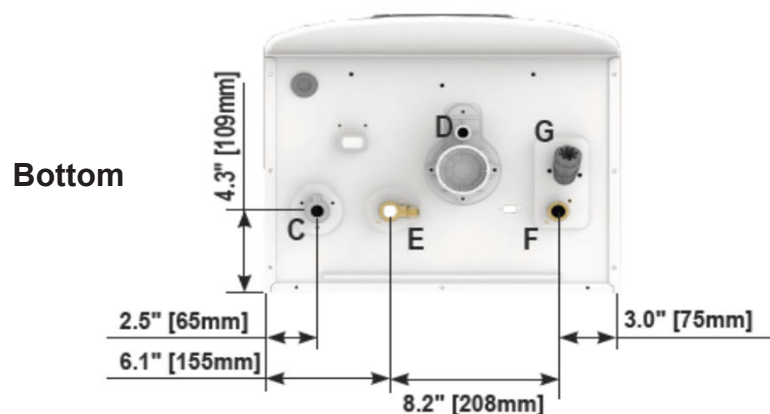
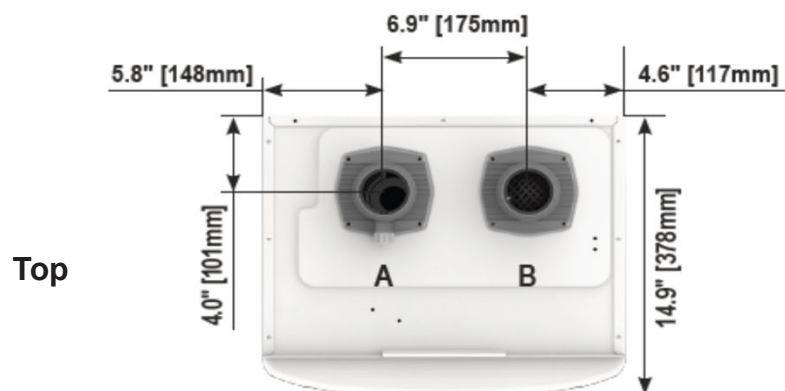
2" Combustion Air / Vent Pipe			3" Combustion Air / Vent Pipe		
Maximum Equivalent Length*		Max Number of Elbows	Maximum Equivalent Length*		Max Number of Elbows
ft	m		ft	m	
60	18		150	45	

*For each elbow, reduce maximum allowable length:

- 8 ft (2.4m) for each 2" 90° elbow
- 4 ft (1.2m) for each 2" 45° elbow
- 5 ft (1.5m) for each 3" 90° elbow
- 3 ft (0.9m) for each 3" 45° elbow

**Dimensional
Data**

Models LT199NXX1 & LT199PXX1		
	Description	Size
A	Exhaust	2" PVC
B	Air Intake	2" PVC
C	Gas	3/4" NPT
D	Condensate	1/2" NPT
E	Hot Water	3/4" NPT
F	Cold Water	3/4" NPT
G	Cold Water Filter	-



Front