

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)
- 0.95 Uniform Energy Factor
- Modulation down to 9% of full fire (11:1 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	kw	MBH	kw			lbs	kg	lbs	kg
LT199NXX1	Natural	199	58.3	18	5.3	11:1	0.95	78	35	89	40
LT199PXX1	Propane	199	58.3	18	5.3	11:1	0.95	78	35	89	40

Model	Gas Type	Water Connection Size	Water Pressure		Gas Connection Size	Gas Pressure	
			psi	kPa		in. W.C.	kPa
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	cm	inches	cm
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	
ft	m	ft	m
60	18	5	8

*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	-

