

LT SERIES



Wall-Mounted Modulating, Condensing, Tankless Water Heater With Recirculation Pump

LT199NRX1 and LT199PRX1



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)
- Equipped with built-in recirc pump
- Return water flow sensor
- 0.95 Uniform Energy Factor
- Modulation down to 9% of full fire (11:1 turndown)
- 185°F max water temperature allows or residential or commercial use
- Cascade up to 2 recirc heaters or mix with up to 14 additional standard 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 LT199NRX1

Propane LT199PRX1

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
LT199NRX1	Natural	199	58.3	18	5.3	11:1	0.95	85	39	96	44
LT199PRX1	Propane	199	58.3	18	5.3	11:1	0.95	85	39	96	44

Model	Gas Type	Water Connection Size	Water Pressure		Gas Connection Size	Gas Pressure	
			psi	kPa		in. W.C.	kPa
LT199NRX1	Natural	3/4" NPT	15-150	103.4-1033.5	3/4" NPT	3.5-10.5	0.86-2.58
LT199PRX1	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	188W	117W

**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 LT199NRX1 & LT199PRX1		
	Description	Size
A	Exhaust	2" PVC
B	Air Intake	2" PVC
C	Hot Water	3/4" NPT
D	Condensate	1/2" NPT
E	Recirculation Return	3/4" NPT
F	Cold Water	3/4" NPT
G	Gas	3/4" NPT
H	Cold Water Filter	-
I	Recirculation Return Filter	-

