



SUBMITTAL ODW-199A

On Demand Water Heater

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference <input type="checkbox"/>	Approval <input type="checkbox"/>	Construction <input type="checkbox"/>
Unit Designation	Schedule #		

ODW Specification	
Heat Input (Btu/h)	199,000 Btu/h
Modulation Range (Btu/h)	26,000-199,000 Btu/h
Energy Factor (%)	0.92
DHW Temperature (DegF)	98 to 158 DegF
Operating Pressure (PSI)	15 - 145 Psig
Minimum Flow Rate (GPM)	0.5 - 0.7 GPM
Ignition Type	Electronic
Vent Type	Direct Vent
Max Hot Water Capacity	
GPM at 45 DegF Temp Rise	7.9
GPM at 55 DegF Temp Rise	6.5
GPM at 65 DegF Temp Rise	5.5
GPM at 75 DegF Temp Rise	4.8
Ambient Temperature Range	37 to 122 DegF
GENERAL DATA	
Fuel Type	Natural Gas or LP
Inlet Gas Pressure - NG	3.5" - 10.5"
Inlet Gas Pressure - LP	9" - 13"
Minimum Gas Line Size* (in)	3/4"
Power (V)	115V-1Ph-60Hz
Power Consumption (W)	82 W
Freeze Protection	Ceramic Heaters
Max Flue Temp (DegF)	136 DegF
Max Vent Length (ft)	45 ft
Max number of Elbows	3
Self Diagnostics	15 Error Codes
CONNECTIONS	
Gas Connection (in)	3/4"
DHW Inlet/Supply (in)	3/4"
Intake Air Diameter (in)	4"
Exhaust Flue Diameter (in)	4"
DIMENSIONS	
Height (in)	28 5/8"
Width (in)	18 1/2"
Depth (in)	9 3/16"
Weight (lbs)	64 lbs
APPROVALS	
Safety	ETL & ETLc
Performance	Energy Star
Warranty	12 Years HX 5 Year Parts



Construction

Unit cabinet shall be manufactured from galvanized steel with a baked on powder coating for a durable and attractive finish

Heat Exchangers

The heat exchangers shall be mechanically bonded fin to copper tube. The wet recuperative heat exchanger shall have fins manufactured from Stainless steel and the primary heat exchanger shall have fins of copper. The heat exchangers shall be aligned in the proprietary S line to maximize efficiency

Venting

Unit shall require both Intake and Exhaust vent piping. Both Intake air and Flue pipe shall be constructed from Schedule 40 PVC or SL636 where required. Maximum vent length shall be 45ft with a maximum of 3 90° elbows
A vent termination shall be provided with the unit

Temperature Control

A stable delivered water temperature shall be assured by using a combination of a flow control valve and a bypass control valve to accurately monitor and adjust water flow through the unit

Controller

A wired remote controller shall be supplied with the unit to allow the end user to set the delivered water temperature, turn the unit On or Off and monitor fault codes

An optional priority controller can be installed to provide a second bathroom with a different water temperature if required

Isolation Valves

A Webstone EXP Isolation Valve kit consisting of shut off valves, Drain Valves and a 150 Psig Pressure Relief Valve shall be included with the ODW

