



SUBMITTAL ODW-180A

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)	180,000 Btu/h
Modulation Range (Btu/h)	26,000-180,000 Btu/h
Energy Factor (%)	0.92
DHW Temperature (DegF)	98-158 DegF
Operating Pressure (PSI)	15-145 Psig
Minimum Flow Rate (GPM)	0.7 GPM
Ignition Type	Electronic
Vent Type	Direct Vent
Max Hot Water Capacity	
GPM at 45 DegF Temp Rise	7.2
GPM at 55 DegF Temp Rise	5.9
GPM at 65 DegF Temp Rise	5.0
GPM at 75 DegF Temp Rise	4.3
GENERAL DATA	
Fuel Type	Natural Gas or LP
Inlet Gas Pressure - NG	5.8"-9.7"
Inlet Gas Pressure - LP	9"-13"
Minimum Gas Line Size* (in)	3/4"
Power (V)	115V-1Ph-60Hz
Power Consumption (W)	75 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
Warranty	11yrs HX, 3yrs Parts



Construction

Unit cabinet shall be manufactured from galvanized steel with a baked on powder coating for a durable 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 thermal efficiency

Venting

Unit shall require both Intake and Exhaust vent piping
Both Intake air and Flue pipe shall be constructed from Schedule 40 PVC
Maximum vent length shall be 45ft with a maximum of 3 90° elbows

A vent termination shall be provided with the unit to allow side wall penetration

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

Wired 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