



SUBMITTAL DPW-099A

Dual Purpose Water Heater

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

Heating System Data	DPW-099A
Heat Input (Btu/h)	47,800 - 99,000
AFUE (%)	90
Htg Water Temp (DegF)	122 to 176 DegF
Working Pressure (psi)	15 - 20
Freeze Protection Device	Thermistor
Heating Min Flow (GPM)	1.2
Htg Heat Exch Water Volume (gal)	0.5
Ignition Type	Electronic Spark
Domestic Hot Water	
DHW Production Energy Factor	0.83
Temperature Setting	98-114,120,130,140°F
DHW Minimum Flow Rate (GPM)	0.5 - 0.7 GPM
GPM at 50F in 100F Out	3.7
GPM at 50F in 110F Out	3.1
GPM at 50F in 120F Out	2.6
GPM at 50F in 130F Out	2.3
General Data	
Control Voltage	24V DC
Fuel Type	NG or LP
Natural Gas Inlet Press ("WC)	3.5" - 10.5" WC
LP Gas Inlet Pressure ("WC)	9" - 13" WC
Gas line Size (inch)	3/4"
Unit Voltage (V)	115V-1Ph-60Hz
Power Consumption (W)	120
Pump Flow @ 10ft Head	2.5 GPM
NOX Levels (ppm)	20
Venting	
Max Flue Temp (DegF)	136
Venting Material	Ø3" Schedule 40 PVC or ULCS636
Max Vent Length (feet)	45ft Equivalent
Max number of Elbows	3 per Vent pipe
Dimensions	
Weight (lbs)	70
Unit Height (less vent conns) (")	27 5/8"
Width (")	18 1/8"
Depth (")	8"
Gas Connection Size (")	3/4"
Heating Supply/Return (")	3/4"
DHW Inlet/Outlet (")	1/2"
Flue/Air Intake (")	Ø3.5" to accept 3" PVC



Construction

Unit shall be made from galvanized steel with a baked on powder coated finish for durability

Closed Loop Heat Exchangers

Primary Heat exchanger is made from Copper finned tube. A Wet Recuperative Heat exchanger is arranged in the S line configuration above the Primary Heat exchanger which reduces flue gas temperatures and allows use of Schedule 40 PVC or ULCS636 vent pipe in Canada

Domestic Plate Heat Exchanger

This Stainless Steel heat exchanger is used for the Domestic Hot Water supply. After the DHW flow is detected, the unit will shut off supply to the heating loops to provide DHW until the requirement finishes

Circulation Pump

A circulation pump is included for the closed loop. For correct operation the unit **MUST** be piped in a Primary – Secondary configuration

Microprocessor Control

Provides precise control of the unit operation, including capacity control to match the heat load, and monitors all of the unit safety functions. Heating water temperature is measured by a thermistor. Unit controller is included with ability to set both closed loop and DHW temperature. Closed loop control is via a zero volt X-X Contact

Warranty

12 Years Heat Exchangers & 5 Years Parts

Quietside

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