



DPW-099A

The Quietside Dual Purpose Water Heater provides both closed loop heating water, for radiant, fan coil, and other hydronic applications plus with the convenience and efficiency of on-demand domestic hot water.

Two capacities - 99,000 and 120,000 Btu/h are available.

These units have efficiency levels of 90% AFUE on the heating operation and an energy factor of up to 0.85 for DHW production. These outstanding efficiency levels are achieved by utilizing 2 heating exchangers, including a wet recuperative heat exchanger. This heat exchanger condenses extra energy from the hot flue gas to provide additional performance and energy.

These units are capable of being vented in Schedule 40 PVC.

**Innovative Design**



Our innovative Heat Exchanger design flows the flue gas in "S" line configuration to improve heat transfer & unit efficiency.

**S Line Heat Exchangers**

The S Line heat exchangers have our innovative design. Placing the latent heat exchanger at an angle above the sensible heat exchanger ensures complete separation from condensate, increasing unit longevity.

Flue gas flows upward providing stable & quiet operation even with up to 45 ft equivalent flue lengths.

The design of the latent heat exchanger reduces flue gas temperature to below 140 DegF at all times, allowing the use of Schedule 40 PVC as the vent material.



**Modulating Gas Valve**

The modulating gas valve allows complete control of the gas flow to the burner assembly. This unit has a turndown ratio of 2:1 to provide performance across a wide range of heat loads.



**Durable Hydroblock**

To increase efficiency, reliability and service a modular concept is used to mount all of the components controlling heating and DHW flow directly to the DHW heat exchanger.



**Easy to Use Unit Controller**

Each unit is supplied with a unit controller allowing both the heating water temperature and the Domestic Hot Water temperature to be set by the end user.

Heating water temperature can be set from 122 DegF to 179 DegF and DHW temperature from 98 - 114 DegF, 120, 130, 140DegF. (Quietside recommends the installation of an anti scald valve on the DHW system).

The unit controller will also display fault codes in the unlikely event of a malfunction occurring with the unit.





## Product Specifications

	DPW-099A	DPW-120A
<b>Heating System Data</b>		
Heat Input (Btu/h)	47,800 - 99,000	47,800 - 120,000
AFUE (%)	90	90
Htg Water Temp (DegF)	122 to 176 DegF leaving unit Heat Exchanger	
Working Pressure (psi)	15 - 20	
Freeze Protection Device	Thermistor, will energize pump/combustion	
Heating Min Flow (GPM)	1.2	
Htg Heat Exch Water Volume (gal)	0.2	0.2
Ignition Type	Electronic Spark	
<b>Domestic Hot Water</b>		
DHW Production Energy Factor	0.83	0.85
Temperature Setting	Controlled : Settings of 98 - 114°F, 120°F, 130°F, 140°F	
DHW Minimum Flow Rate (GPM)	0.7 GPM	
GPM at 50F in 100F Out	3.7	4.5
GPM at 50F in 110F Out	3.1	3.7
GPM at 50F in 120F Out	2.6	3.2
GPM at 50F in 130F Out	2.3	2.8
<b>General Data</b>		
Control Voltage	24V DC - Requires X-X or Zero Voltage Contact for Zone applications	
Fuel Type	NG or Field Conversion to LP	
Natural Gas Inlet Press ("WC)	Minimum 5.8" WC to Maximum 9.7" WC	
LP Gas Inlet Pressure ("WC)	Minimum 9" WC to Maximum 13" WC	
Gas line Size (inch)	Min Size 3/4"	
Unit Voltage (V)	115V-1Ph-60Hz	
Power Consumption (W)	120	140
Pump Flow @ 10ft Head	2.5 GPM	
NOX Levels (ppm)	20	20
<b>Venting</b>		
Max Flue Temp (DegF)	136	
Venting Material	Ø3" Schedule 40 PVC	
Max Vent Length (feet)	45ft Equivalent each for both Intake and Exhaust	
Max number of Elbows*	3 per Individual Vent pipe	
*One Elbow = 5 ft equivalent length, which must be deducted from the total vent length		
<b>Dimensions</b>		
Weight (lbs)	70	70
Unit Height (less vent conns) (")	27 5/8"	27 5/8"
Width (")	18 1/8"	18 1/8"
Depth (")	8"	8"
Gas Connection Size (")	3/4"	
Heating Supply/Return (")	3/4"	
DHW Inlet/Outlet (")	1/2"	
Flue/Air Intake (")	Vent Connection ø3.5" to accept 3" PVC	

Quietside maintains a policy of continuous product development and specifications can change

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