## SUBMITTAL DPW-199A
### Dual Purpose Water Heater

<table>
<thead>
<tr>
<th>Heating System Data</th>
<th>DPW-199A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Input (Btu/h)</td>
<td>26,000 - 199,000</td>
</tr>
<tr>
<td>AFUE (%)</td>
<td>90</td>
</tr>
<tr>
<td>Htg Water Temp (DegF)</td>
<td>122 to 176 DegF</td>
</tr>
<tr>
<td>Working Pressure (psi)</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Freeze Protection Device</td>
<td>Thermistor</td>
</tr>
<tr>
<td>Heating Min Flow (GPM)</td>
<td>1.2</td>
</tr>
<tr>
<td>Htg Heat Exch Water Volume (gal)</td>
<td>0.25</td>
</tr>
<tr>
<td>Ignition Type</td>
<td>Electronic Spark</td>
</tr>
</tbody>
</table>

### Domestic Hot Water
- **DHW Production Energy Factor**: 0.82
- **Temperature Setting**: 98-114,120,130,140°F
- **DHW Minimum Flow Rate (GPM)**: 0.5 - 0.7 GPM
- **GPM at 50F in 100F Out**: 6.2
- **GPM at 50F in 110F Out**: 5.1
- **GPM at 50F in 120F Out**: 4.4
- **GPM at 50F in 130F Out**: 3.9

### 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)**: 187
- **Pump Flow @ 10ft Head**: 5 GPM
- **NOX Levels (ppm)**: 20

### Venting
- **Max Flue Temp (DegF)**: 136
- **Venting Material**: Ø4" Schedule 40 PVC Or ULcS636
- **Max Vent Length (feet)**: 45ft Equivalent
- **Max number of Elbows**: 3 per Vent pipe

### Dimensions
- **Weight (lbs)**: 97
- **Unit Height (less vent conn公平) (")**: 28 3/4"
- **Width (")**: 18 1/2"
- **Depth (")**: 13 5/8"
- **Gas Connection Size (")**: 3/4"
- **Heating Supply/Return (")**: 3/4"
- **DHW Inlet/Outlet (")**: 3/4"
- **Flue/Air Intake (")**: ø4.5" to accept 4" PVC

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**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