DHWG designed for use with Slant/Fin Bobcat and Lynx series and other similar boilers with DHW priority control capabilities.

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**WARNING - HOT WATER CAN SCALD!**

A tempering valve is recommended to be installed on the hot water outlet to all fixtures where direct user contact can be made with the water supplied by the DHW system, to prevent any possible scalding conditions. See Figure 3 for the appropriate installation method of this device (not supplied with the DHWG system).
Use these instructions in conjunction with the boiler Installation and Operating Instructions (publication BA-40 for Bobcat and LX1-40 for Lynx boilers) for utilizing this domestic hot water generator with the boiler.

Components included:
1. See Figure 1 for the identification and location of each component and piping connection provided in the DHWG system.
2. The DHWG pump is sized for the required flow rate through the plate exchanger to provide adequate hot water production.
3. A flow switch is provided to detect any flow of domestic water, and will energize the DHWG pump and give a call for the burner to operate as required for the demand.
4. DHWG pump provided has integral flow check, to prevent water flow in the DHW boiler loop when it is running for space heating demand.

Figure 1. Components and piping of DHWG.
DHWG Domestic Hot Water Generator

Dimensions:
Width = 17"  Height = 12"  Depth = 8⅛"

Specifications:
Weight (empty) = 21 lbs
Water content = 0.2 gallons
Piping connections = 3/4" nom. I.D. copper
Min. DHW flow = 0.3 gpm
Max. working pressure = 125 psi

Mounting to a Wall:
1. DHWG must be installed with water pipes at right or left side of the unit (see figure 2).

Figure 2.

2. Be sure that the wall is vertically plumb, and capable of carrying the weight of the DHWG system and all associated piping, when full of water. See the specifications above.

3. The system may be mounted onto a combustible wall, but the water piping must be kept a minimum of 1" away from any combustible materials.

4. For stud type walls, be sure that there are studs available in the desired location, and the appropriate fasteners are utilized for the wood or metal stud type and weight capacity.

5. For masonry walls, utilize anchors of the appropriate design for the material and weight capacity.

6. Do not attempt to support the system with anchors driven into sheetrock only.

Table 1. DHWG pressure drop vs. flow

<table>
<thead>
<tr>
<th>Flow (GPM)</th>
<th>LX-85A Boiler</th>
<th>LX-90 Boiler</th>
<th>B-120A or LX-120 Boiler</th>
<th>LX-150 Boiler</th>
<th>B-200A Boiler</th>
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</tbody>
</table>

Table 2. DHWG temperature rise vs. water flow*
**Water Piping:**

1. Make all piping connections to and from the DHWG system as shown in Figure 3.

2. Isolation valves and unions are recommended on all piping connections to the DHWG system, to facilitate any possible service needs. Use full port valves to insure proper water flow through the system.

3. The piping to and from the boiler should be kept as short as possible, with a minimum number of restrictions, such as elbows. The diameter of the piping must not be reduced from the DHWG system's provided connection size.

4. The piping for the domestic water in and out should be adequately sized for the desired flow rates at each fixture. The distance to each fixture should be considered, for the response rate of adequate hot water to each.

5. Refer to the boiler manual “Water Piping” section, for proper installation of the space heating system and all other piping.

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**CAUTION:** A tempering valve is recommended to be installed on the hot water outlet to all fixtures where direct user contact can be made with the water supplied by the DHWG system to prevent any possible scalding conditions. See Figure 3 for the appropriate installation method of this device (not supplied with the DHWG system).

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*Figure 3. Water piping from boiler to DHWG system (Bobcat B-120A shown)*
**Electrical Wiring:**
1. Make all wiring connections to the DHWG system as shown in Figure 4.
2. Wire the DHWG system circulator's junction box leads to the boiler's “DHW CIRC” line voltage terminals. Use 14 gage conductors in BX or conduit, secured to the connectors provided (See figure 5).
3. Wire the DHWG system water flow switch to the boiler's “DHW T-STAT” low voltage terminals. (terminal #3 and #4 of boiler low voltage terminals, See figure 5).
4. Refer to the boiler manual's “Electrical Wiring” section, for proper installation of all additional wiring necessary for the space heating system and operation of the boiler.

**System Settings:**
Refer to the boiler manual's “Boiler Control and Display Features”, in the “Operating Instructions” section, for setting the boiler parameters properly to operate with the DHWG system.

1. The domestic hot water post pump time (see Table 5 of the boiler manual) should be set for the minimum value of 1 second, when the alternating letter indication of “P-d” is selected.
2. The domestic hot water mode must be set for # 2 (see Table 5), when the alternating letter indication of “d-t” is selected.
3. The priority mode must be set for 0, DHW priority with no time limit (see Table 5), when the alternating letter indication of “b-t” is selected.
4. Set all other parameters as appropriate for the space heating system and operation of the boiler.

*Figure 4.* Wiring DHWG system to the Bobcat or Lynx boilers.
Figure 5. Electrical wiring connections