If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS —

• Do not try to light any appliance.
• Do not touch any electrical switch; do not use any telephone in your building.
• Immediately call your gas supplier from a neighbor’s telephone. Follow the gas supplier’s instructions.
• If you cannot reach your gas supplier, call the fire department.

Installation & service must be performed by a qualified installer, service technician or the gas supplier.
Please read this page first

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<td>Maintain boiler</td>
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Hazard definitions

The following defined terms are used throughout this manual to bring attention to the presence of hazards of various risk levels or to important information concerning the life of the product.

**DANGER**
Indicates presence of hazards that will cause severe personal injury, death or substantial property damage.

**WARNING**
Indicates presence of hazards that can cause severe personal injury, death or substantial property damage.

**CAUTION**
Indicates presence of hazards that will or can cause minor personal injury or property damage.

**NOTICE**
Indicates special instructions on installation, operation or maintenance that are important but not related to personal injury or property damage.
STOP!! — Read before proceeding

• Should overheating occur or gas supply fail to shut off, DO NOT turn off or disconnect electrical supply to circulator. Instead, shut off the gas supply at a location external to the appliance.

• Do not use this boiler if any part has been under water. Immediately call a qualified service technician to inspect the boiler and to replace any part of the control system and any gas control that has been under water.

Boiler service and maintenance —

• To avoid electric shock, disconnect electrical supply before performing maintenance.

• To avoid severe burns, allow boiler to cool before performing maintenance.

• You must maintain the boiler as outlined in the manual and have the boiler started up and serviced at least annually by a qualified service technician to ensure boiler/system reliability.

Carbon monoxide detector —

• A carbon monoxide detector that is wired on the same electrical circuit as the boiler is strongly recommended.

Boiler water —

• Do not use petroleum-based cleaning or sealing compounds in boiler system. Gaskets and seals in the system may be damaged. This can result in substantial property damage.

• Leaks in boiler or piping must be repaired at once to prevent make-up water. Use this boiler ONLY in a closed-loop system. Continual fresh make-up water will reduce boiler life. Mineral buildup in heat exchangers reduces heat transfer, overheats the materials, and causes failure. Addition of oxygen carried in by make-up water can cause internal corrosion.

• Do not add cold water to hot boiler. Thermal shock can cause heat exchanger to crack.

Freeze protection fluids —

• NEVER use automotive or standard glycol antifreeze. Use only freeze-protection fluids made for hydronic systems. Follow all guidelines given by the antifreeze manufacturer. Thoroughly clean and flush any replacement boiler system that has used glycol before installing the new boiler.

Have this boiler serviced/inspected by a qualified service technician, at least annually.

Failure to comply with the above could result in severe personal injury, death or substantial property damage.

When calling or writing about the boiler—Please have the boiler model number from the boiler rating label and the CP number from the boiler jacket.
Prevent combustion air contamination

Air contamination

Common household and hobby products often contain fluorine or chlorine compounds. When these chemicals pass through the boiler, they can form strong acids in the vent system or boiler. The acid can eat through the vent or boiler wall, causing serious damage and presenting a possible threat of flue gas spillage into the building.

Please read the information on this page.

**WARNING** If the boiler combustion air inlet is located in any area likely to cause contamination, or if products which would contaminate the air cannot be removed, you must have the combustion air and vent re-piped and terminated to another location.

Contaminated combustion air will damage the boiler, resulting in possible severe personal injury, death or substantial property damage.

Do not operate the WM97+ boiler if its combustion air inlet is located in a laundry room or pool facility, for example. These areas will always contain hazardous contaminants.

Combustion air contamination:

**WARNING** Ensure that the combustion air will not contain any of the contaminants in Figure 1.

- Combustion air supply openings or intake terminations must NOT be near a swimming pool, for example.
- Avoid areas subject to exhaust fumes from laundry facilities. These areas will always contain contaminants.

<table>
<thead>
<tr>
<th>Products to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray cans containing chloro/fluorocarbons</td>
</tr>
<tr>
<td>Permanent wave solutions</td>
</tr>
<tr>
<td>Chlorinated waxes/cleaners</td>
</tr>
<tr>
<td>Chlorine-based swimming pool chemicals</td>
</tr>
<tr>
<td>Calcium chloride used for thawing</td>
</tr>
<tr>
<td>Sodium chloride used for water softening</td>
</tr>
<tr>
<td>Refrigerant leaks</td>
</tr>
<tr>
<td>Paint or varnish removers</td>
</tr>
<tr>
<td>Hydrochloric acid/muriatic acid</td>
</tr>
<tr>
<td>Cements and glues</td>
</tr>
<tr>
<td>Antistatic fabric softeners used in clothes dryers</td>
</tr>
<tr>
<td>Chlorine-type bleaches, detergents, and cleaning solvents found in household laundry rooms</td>
</tr>
<tr>
<td>Adhesives used to fasten building products and other similar products</td>
</tr>
<tr>
<td>Excessive dust and dirt</td>
</tr>
</tbody>
</table>

**Areas likely to have contaminants**

- Dry cleaning/laundry areas and establishments
- Swimming pools
- Metal fabrication plants
- Beauty shops
- Refrigeration repair shops
- Photo processing plants
- Auto body shops
- Plastic manufacturing plants
- Furniture refinishing areas and establishments
- New building construction
## Annual startup and general maintenance

### Owner Maintenance

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEGINNING OF SEASON</strong></td>
<td>Contact your boiler service technician to inspect, service and start up your boiler. <strong>You must have an annual start-up performed by a qualified service technician</strong> to ensure reliable operation of the boiler and system.</td>
</tr>
<tr>
<td><strong>DAILY</strong></td>
<td>• Check boiler area.</td>
</tr>
<tr>
<td></td>
<td>• Check air openings.</td>
</tr>
<tr>
<td></td>
<td>• Check pressure/temperature gauge.</td>
</tr>
<tr>
<td></td>
<td>• Verify boiler front door is securely closed.</td>
</tr>
<tr>
<td><strong>MONTHLY</strong></td>
<td>• Check vent piping.</td>
</tr>
<tr>
<td></td>
<td>• Check air piping.</td>
</tr>
<tr>
<td></td>
<td>• Check relief valve.</td>
</tr>
<tr>
<td></td>
<td>• Check condensate drain system.</td>
</tr>
<tr>
<td></td>
<td>• Check automatic air vents (if used).</td>
</tr>
<tr>
<td></td>
<td>• Check display date and time</td>
</tr>
<tr>
<td></td>
<td>• CWH installations — see last page of this manual.</td>
</tr>
<tr>
<td><strong>EVERY 6 MONTHS</strong></td>
<td>• Check boiler piping (gas and water).</td>
</tr>
<tr>
<td></td>
<td>• Operate relief valve.</td>
</tr>
</tbody>
</table>

**WARNING**

Follow the service and maintenance procedures given throughout this manual and in component literature shipped with the boiler. Failure to perform the service and maintenance could result in damage to the boiler or system. Failure to follow the directions in this manual and component literature could result in severe personal injury, death or substantial property damage.
User maintenance procedures

The boiler should be inspected and started annually, at the beginning of the heating season, only by a qualified service technician. In addition, the maintenance and care of the boiler designated on page 5 and explained on the following pages must be performed to assure maximum boiler efficiency and reliability. Failure to service and maintain the boiler and system could result in equipment failure, causing possible severe personal injury, death or substantial property damage.

The following information provides detailed instructions for completing the maintenance items listed in the maintenance schedule, page 5. In addition to this maintenance, the boiler must be serviced and started up at the beginning of each heating season by a qualified service technician.

Check boiler area

To prevent potential of severe personal injury, death or substantial property damage, eliminate all materials discussed below from the boiler vicinity. If contaminants are found:

Remove products immediately from the area. If they have been there for an extended period, call a qualified service technician to inspect the boiler and vent system for possible damage from acid corrosion.

If products cannot be removed, immediately call a qualified service technician to address the problem.

1. Combustible/flammable materials — Do not store combustible materials, gasoline or any other flammable vapors or liquids near the boiler. Remove immediately if found.

2. Air contaminants — Products containing chlorine or fluorine, if allowed to contaminate the boiler intake air, will cause acidic condensate in the vent and boiler. This will cause significant damage to the vent and/or boiler if allowed to continue.

3. Read the list of potential materials listed on page 4 of this manual. If any of these products are in the room from which the boiler takes its combustion air, they must be removed immediately or the boiler combustion air must be supplied from outside.

4. See WARNING above.

Check air openings

1. Verify that combustion and ventilation air openings to the boiler room and/or building are open and unobstructed.

2. Verify that boiler vent discharge and air intake are clean and free of obstructions. Remove any debris on the air intake or flue exhaust openings.

Check boiler pressure/temperature gauge

1. Make sure the pressure reading on the boiler pressure/temperature gauge does not exceed 24 psig. Higher pressure may indicate a problem with the expansion tank.

2. Contact a qualified service technician if problem persists.

Verify that boiler door is securely closed

1. Visually inspect boiler front door to be sure it is sealed all around its perimeter. Verify that the two door latches are tight.

The boiler front door must be securely fastened to the boiler to prevent boiler from drawing air from inside the boiler room.

This is particularly important if the boiler is located in the same room as other appliances.

Failure to keep the door securely fastened could result in severe personal injury or death.

Contact your installer or technician immediately if the front door does not close correctly or if the door gaskets are damaged.

DAILY Maintenance

Boiler must be serviced and maintained

WARNING

CAUTION

Check boiler area

WARNING

Check air openings

Check boiler pressure/temperature gauge

Verify that boiler door is securely closed

The following information provides detailed instructions for completing the maintenance items listed in the maintenance schedule, page 5. In addition to this maintenance, the boiler must be serviced and started up at the beginning of each heating season by a qualified service technician.

The boiler should be inspected and started annually, at the beginning of the heating season, only by a qualified service technician. In addition, the maintenance and care of the boiler designated on page 5 and explained on the following pages must be performed to assure maximum boiler efficiency and reliability. Failure to service and maintain the boiler and system could result in equipment failure, causing possible severe personal injury, death or substantial property damage.

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Remove products immediately from the area. If they have been there for an extended period, call a qualified service technician to inspect the boiler and vent system for possible damage from acid corrosion.

If products cannot be removed, immediately call a qualified service technician to address the problem.

1. Combustible/flammable materials — Do not store combustible materials, gasoline or any other flammable vapors or liquids near the boiler. Remove immediately if found.

2. Air contaminants — Products containing chlorine or fluorine, if allowed to contaminate the boiler intake air, will cause acidic condensate in the vent and boiler. This will cause significant damage to the vent and/or boiler if allowed to continue.

3. Read the list of potential materials listed on page 4 of this manual. If any of these products are in the room from which the boiler takes its combustion air, they must be removed immediately or the boiler combustion air must be supplied from outside.

4. See WARNING above.

Check air openings

1. Verify that combustion and ventilation air openings to the boiler room and/or building are open and unobstructed.

2. Verify that boiler vent discharge and air intake are clean and free of obstructions. Remove any debris on the air intake or flue exhaust openings.

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1. Make sure the pressure reading on the boiler pressure/temperature gauge does not exceed 24 psig. Higher pressure may indicate a problem with the expansion tank.

2. Contact a qualified service technician if problem persists.

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1. Visually inspect boiler front door to be sure it is sealed all around its perimeter. Verify that the two door latches are tight.

The boiler front door must be securely fastened to the boiler to prevent boiler from drawing air from inside the boiler room.

This is particularly important if the boiler is located in the same room as other appliances.

Failure to keep the door securely fastened could result in severe personal injury or death.

Contact your installer or technician immediately if the front door does not close correctly or if the door gaskets are damaged.
MONTHLY Maintenance

Check vent & air piping
1. Visually inspect the flue gas vent piping and air piping for any signs of blockage, leakage or deterioration of the piping. Notify your qualified service technician at once if you find any problem.

**WARNING** Failure to inspect the vent/air system as noted above and have them repaired by a qualified service technician can result in vent system failure, causing severe personal injury or death.

Check the relief valve
1. Inspect the boiler relief valve and the relief valve discharge pipe for signs of weeping or leakage.
2. If the relief valve often weeps, the expansion tank may not be working properly. Immediately contact your qualified service technician to inspect the boiler and system.

Check the condensate drain system
1. Visually inspect the condensate drain tubing and the end of the tube. Make sure the tube is in good condition and that condensate can run freely.
2. Inspect the boiler condensate trap, located under the boiler (see Figure 3). Make sure the ball float in the trap is in place and appears to be free to move. Make sure the trap has water in it.
3. Contact a boiler service technician if you observe any problems.

Check automatic air vents
(If used — automatic air vents must be used with diaphragm-type expansion tanks only)
1. See Figure 4.
2. Remove the cap from any automatic air vent in the system and check operation by depressing valve “B” slightly with the tip of a screwdriver.

**WARNING** Scald hazard — Water from air vent may be very hot. Avoid contact to prevent possible severe personal injury.
3. If the air vent valve appears to be working freely and not leaking, replace cap “A”, twisting all the way on.
4. Loosen cap “A” one turn to allow vent to operate.
5. Have vent replaced if it does not operate correctly.

Check display date and time
1. Observe the date and time shown in the upper right of the control display.
2. If the date or time is incorrect, follow the instructions in Figure 6, page 10 and Figure 9, page 12 to access the USER MENU and change the date and/or time settings.
3. Keeping the data and time current makes sure the control can record problems accurately.
User maintenance procedures (continued)

**Check boiler piping**

1. Check all gas lines and smell for gas odors. Perform gas leak inspection per steps 1 through 7, Operating Instructions, page 9. If gas odor or leak is detected, immediately shut down boiler following procedures on page 9. Call a qualified service technician.

2. Visually inspect for water leaks around all piping, circulators, relief valves and other fittings.

3. Immediately call a qualified service technician to repair any leaks.

**WARNING**

Have leaks fixed at once by a qualified service technician. Continual fresh makeup water will reduce boiler life. Minerals can build up in the heat exchanger, reducing heat transfer and causing overheating. Heat exchanger failure can occur.

**WARNING**

Do not use petroleum-based cleaning or sealing compounds in boiler system. Severe damage to boiler and system components can occur, resulting in possible severe personal injury, death or substantial property damage.

**Operate boiler relief valve**

1. Before proceeding, verify that the relief valve outlet has been piped to a safe place of discharge, avoiding any possibility of scalding from hot water.

2. Read the boiler pressure/temperature gauge to make sure the system is pressurized.

3. Lift the relief valve top lever slightly, allowing water to relieve through the valve and discharge piping.

4. If water flows freely, release the lever and allow the valve to seat. Watch the end of the relief valve discharge pipe to ensure that the valve does not weep after the line has had time to drain. If the valve weeps, lift the seat again to attempt to clean the valve seat. If the valve continues to weep afterwards, contact your qualified service technician to inspect the valve and system.

5. If water does not flow from the valve when you lift the lever completely, the valve or discharge line may be blocked. Immediately shutdown the boiler, following the lighting instructions on the inside jacket top. Call your qualified service technician to inspect the boiler and system.

**WARNING**

To avoid water damage or scalding due to valve operation, a metal discharge line must be connected to relief valve outlet and run to a safe place of disposal. This discharge line must be installed by a qualified heating installer or service technician in accordance with the instructions in the WM97+ Boiler Manual. The discharge line must be terminated so as to eliminate possibility of severe burns should the valve discharge.
FOR YOUR SAFETY — READ BEFORE OPERATING

WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

B. Before OPERATING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor. See below.

C. Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

WHAT TO DO IF YOU SMELL GAS

• Do not try to light any appliance.
• Do not touch any electric switch; do not use any phone in your building.
• Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
• If you cannot reach your gas supplier, call the fire department.

OPERATING INSTRUCTIONS

1. Stop! Read the safety information at left on this label. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
2. Set room thermostat(s) to lowest setting.
3. Turn OFF all electrical power to the appliance.
4. Locate boiler manual gas valve (in the gas piping below the boiler).
5. Turn boiler manual gas valve knob counterclockwise to OPEN gas supply.
6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor.
7. If you smell gas, STOP! Turn the boiler manual gas valve to OFF. Then follow WHAT TO DO IF YOU SMELL GAS, above. If you don't smell gas, go to step 8, below.
8. Turn ON all electrical power to the appliance.
9. Set thermostat(s) to desired setting.
10. The WM97+ display will show symbols and text describing the status of the boiler as it proceeds through its operating sequence. "Standby" status means there is no call for heat. A faucet or flame symbol on the display means the boiler is firing.
11. If the appliance will not operate when there is a call for heat and piping is not hot, follow the instructions "To Turn Off Gas To Appliance" below and call your service technician or gas supplier.
12. Make sure boiler manual gas valve is turned to CLOSED position.

TO TURN OFF GAS TO THE APPLIANCE

1. Set room thermostats to lowest setting.
2. Turn OFF all electrical power to the appliance.
3. Turn boiler manual gas valve knob clockwise to close gas supply.
The WM97+ control display

Figure 6  WM97+ boiler control display states — press the **RIGHT ARROW** button to see the INFORMATION screen

Display above is typical for normal operation. The center symbol changes to show operation status.

Press ▲ to switch to INFO screen.

The INFO screen, below is for at-a-glance information during normal operation.

1. Screen color
   - **Blue** = space heating or when a button is pressed
   - Screen will show solid red, with the exclamation mark symbol, if a non-shutdown failure occurs; i.e., failure of a non-critical sensor, such as outdoor or system supply or return sensor.

2. Status graphic
   - **Pressing any button changes background to blue, below.**

3. Firing rate bar

4. Operating status / Active system

**Buttons**
- ▲ Move selection up
- ▼ Move selection down
- ◀ Next screen
- ◀ Previous screen
- ◀ Enter

**Display:**
- **HH:MM AM**
- **MM/DD/YY**
- **STATUS:** # # # # # # # # # #
- **MODULATION:**
- **TARGET:** # # # °F
- **SUPPLY:** # # # °F
- **RETURN:** # # # °F
- **OUTDOOR:** # # °F
- **INPUT:** # #
- **PUMPS:** # # # #
- **SETTINGS:**
- **SELECT ▲▼**
- **PREVIOUS ENTER ▼**

- **Time and date**
- **Active system type**
- **Firing rate**
- **Setpoint temperature**
- **Supply temperature**
- **Return temperature**
- **Outdoor air temperature**
- **Zones calling for heat**
- **Circulators activated (123BC)**
- **BC = boiler circulator**
- **Select to change settings (to access the USER menu)**
- **Scroll up or down**
- **Previous screen or ENTER**

**Colors:**
- **Red Backlight**
  - Alternating colors
  - BOILER IN LOCKOUT
    - (Attention required to restart boiler)
- **Purple Backlight**
  - DHW HEATING
    - (Domestic hot water heating)
- **Blue Backlight**
  - STANDBY
    - (Pressing any button changes background to blue, below.)
- **No Backlight**
  - NO BACKLIT
The WM97+ control display (continued)

Figure 7  WM97+ boiler control MAINTENANCE notice screens (alternates between wrench screen and maintenance screen)

The display turns red and shows the wrench symbol to indicate a situation requiring service attention. The screen alternates between the wrench screen and the Maintenance screen. This only occurs during standby, not during boiler operation. Press ENTER to go to the Reset Reminder. After resetting, the control will no longer show the wrench screen.

Figure 8  WM97+ boiler control display LOCKOUT SCREEN — screen turns red when boiler locks out — highlight and select MANUAL RESET to reset boiler as shown below.

SEE TOP LINE OF DISPLAY FOR ERROR

Select MANUAL RESET to reset condition. Make sure to correct the cause of the problem if possible.
The WM97+ control settings (without CWH)

**Date and time**
1. Set year, month, date, hour and minute on the five screens shown below.
2. Keep date and time current to ensure that maintenance information and control fault history will be accurate.

**Maintenance information**
1. Obtain installer information, installation date and maintenance schedule (last and next dates).
2. Use the final screen to reset the maintenance reminder.

---

**Figure 9**
USER Menu access and navigation (for WM97+ boiler without optional Companion Water Heater) — Access USER MENU by selecting SETTINGS on the STATUS screen (see Figure 6, page 10)

- **USER Menu functions**
- **Date and time**: Set year, month, date, hour and minute on the five screens shown below.
- **Maintenance information**: Obtain installer information, installation date and maintenance schedule (last and next dates).

- **USER Menu**
  - **Set date and time**
  - **Maintenance**

- **Maintenance**
  - **Name**: 
  - **Phone**: 
  - **Model**: WM97+ 
  - **CP#**: 

- **Maintenance reset**
  - Press ENTER to reset maintenance reminder

- **Reset reminder**
  - Select option ▼

Use ▲ and ▼ keys to highlight the desired item on a screen.

Pressing ENTER here will reset the maintenance reminder. The display screen will return to normal after the reset.
Hot Water Can Scald!

• Water heated to temperature for clothes washing, dish washing and other sanitizing needs can scald and cause permanent injury.

• Children, elderly, and infirm or physically handicapped persons are more likely to be permanently injured by hot water. Never leave them unattended in bathtub or shower. Never allow small children to use a hot water tap or draw their own bath.

• If anyone using hot water in the building fits the above description, or if state laws or local codes require certain water temperatures at hot water taps, you must take special precautions:
  • Use lowest possible temperature setting.
  • Install a thermostatic protective device at each point of use in addition to the mixing valve installed at the water heater.

• Water passing out of drain valves may be extremely hot. To avoid injury:
  • Make sure all connections are tight.
  • Direct water flow away from any person.

For all applications:

Protection must be taken against excessive temperature and pressure! — Install a temperature & pressure (T&P) relief valve (like that provided with the water heater) and thermostatic mixing valve (like that provided with the water heater). In addition, a thermostatic protective device at each point of use may also be necessary.
**USER Menu functions**

**Date and time**

1. Set year, month, date, hour and minute on the five screens shown at right.

2. Keep date and time current to ensure that maintenance information, control fault history and schedule settings (if SCHEDULE mode is used) will be accurate.

**Maintenance information**

1. Obtain installer information, installation date and maintenance schedule (last and next dates).

2. Use the final screen to reset the maintenance reminder.

**DHW Settings**

1. See page 15 for explanation of performance mode settings.

2. Use the TANK STORAGE TEMPERATURE setting to customize the tank storage temperature. This should not be necessary in most cases. Tank temperature is automatically set when selecting a performance mode.

---

**DANGER** Hot water can scald.

See **DANGER** information on page 13 before adjusting.
CWH Performance Mode quick set-up

**DANGER** HOT WATER CAN SCALD. Read **DANGER** information on page 13 before adjusting.

**CONTROL NAVIGATION BUTTONS**
- Highlight next selection UP
- Previous screen
- Next screen
- Highlight next selection DOWN
- Enter/select

**SUGGESTED CWH PERFORMANCE SETTINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF-DISABLE</td>
<td>If selected by a User — CWH operation is turned off, can be turned on by user in the Performance Mode Menu</td>
</tr>
<tr>
<td></td>
<td>NOTICE — If a Contractor selects OFF-DISABLE, the CWH cannot be turned on by the user. It can only be activated by a Contractor.</td>
</tr>
<tr>
<td>HIGH PERFORMANCE</td>
<td>Delivers the highest performance available and maximizes the energy of the stored water for demanding applications. Use during peak-demand periods when multiple fixtures will be running.</td>
</tr>
<tr>
<td>NORMAL</td>
<td>A balance of performance and efficiency. Delivers hot water for a shower, sinks, or faucets continually (except WM97+70 model). General setting for most times of the day.</td>
</tr>
<tr>
<td>ECONOMY</td>
<td>Saves energy by operating with lower boiler temperatures and storing tank at lower temperature for lowest standby losses. Not recommended for showering with 70°F temperature rise (except for the WM97+155 model). Ideal setting in schedule mode for low-use periods.</td>
</tr>
<tr>
<td>VACATION</td>
<td>Maintains tank temperature above 50°F to deter freezing in tank. This mode will not supply hot water to the user.</td>
</tr>
<tr>
<td>SCHEDULED</td>
<td>This mode allows programming up to 4 different performance modes to occur at different times of the day. There are different schedules for Weekdays (M-F) and Weekends. This allows energy savings by keeping the tank at low temperatures when not needed and meeting peak demands during times of typical high usage. These times must be programmed by the contractor or user.</td>
</tr>
</tbody>
</table>

**DATE / TIME**
- STATUS: Active system or CWH mode if CWH is calling for heat. Scroll down to highlight SETTINGS to go to USER MENU screen.

**USER MENU**
- SET DATE AND TIME
- MAINTENANCE
- DHW SETTINGS
- VACATION MODE: OFF

**USER DOMESTIC HOT WATER SETTINGS**
- DHW PERFORMANCE: NORMAL
- TANK STORAGE TEMPERATURE: ### °F
- TANK DELIVERY TEMPERATURE: ### °F
- SELECT OPTION ▲▼
- PREVIOUS ENTER

**SETTING SCHEDULE VALUES:**
- Up to four periods can be set
- Use ▲▼ keys to highlight a line to change
- Press ■ to select the line
- Use ▲▼ keys to change a start time or use ▲▼ keys to change a performance mode
- Press ■ to save value
- **Start time for each period will AUTO COPY TO END TIME OF PREVIOUS period**
Vacation mode quick access

Vacation mode access
1. Use the sequence shown below for quick access to enable VACATION mode.
2. When VACATION mode is turned OFF, the WM97+ control reverts to the Performance Mode previously selected.

**ATTENTION CWH USER!**

⚠️ **WARNING**

Have the water heater serviced at least once annually by a qualified service technician.

Follow the **maintenance procedures** below at least monthly.

Failure to comply with the above can result in severe personal injury, death or substantial property damage.

**MONTHLY maintenance by user**

- At least MONTHLY, visually check valves, pipes and fittings for leaks.
- Check hot water supply at several outlets. Make sure water temperature is not too hot.
- Call qualified service technician to repair leaks or address problems.