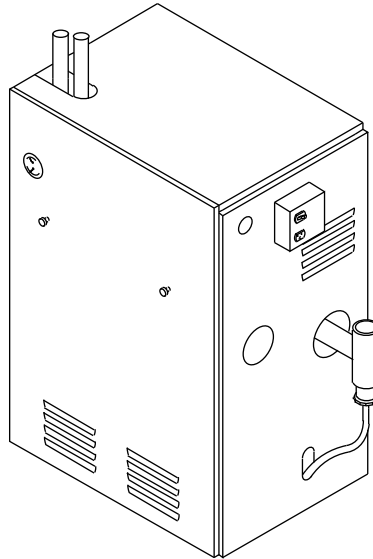


Congratulations! Your new gas-fired indoor boiler is an excellent choice and sound investment in home heating comfort. Your modern boiler represents the latest in engineering development and is the culmination of many years of experience from one of the most reputable manufacturers of residential hydronic heating systems.

Not only is your new boiler one of the most energy-efficient heating systems you can buy today, it is also one of the safest and most dependable. With only minimal care, your new boiler will continue to deliver money-saving home comfort and enjoyment for many years to come. Spend just a few minutes with this manual to learn the operation of your new boiler and the small amount of maintenance it takes to help keep it operating at peak efficiency.



**Model BW9
Gas-Fired Direct Vent
Condensing Water Boiler**

BOILER IDENTIFICATION

For your convenience, record the product and serial numbers of your new boiler on the form below. Should you ever require service, you will have ready access to the information needed by the service representative.

Product No. _____

Serial No. _____

Date Installed _____

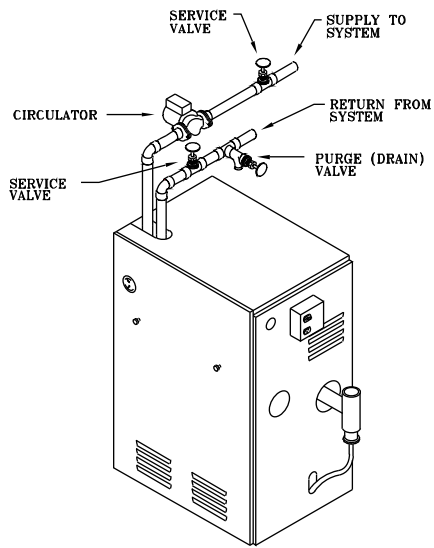
Dealer Name _____

Address _____

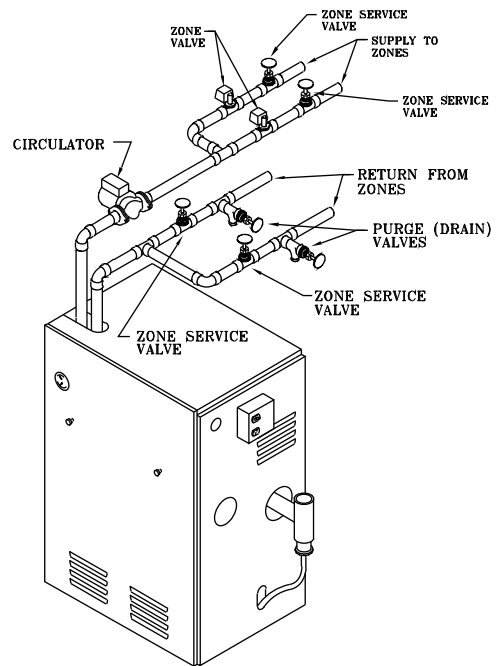
City _____

State _____ Zip _____

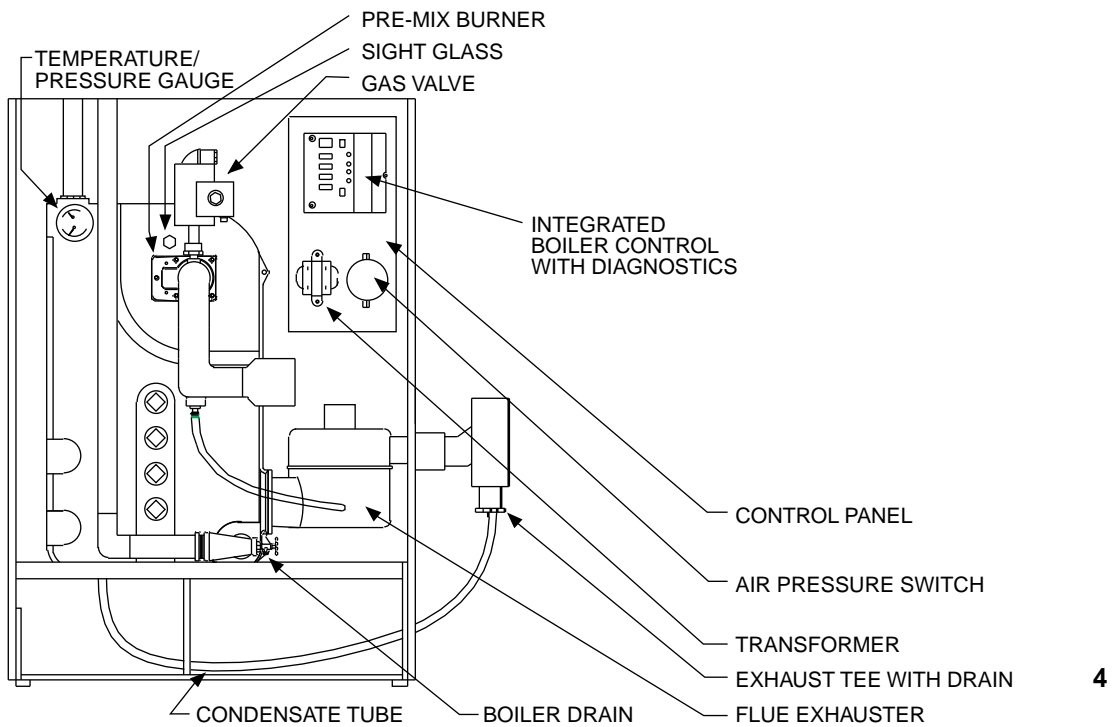
Telephone _____



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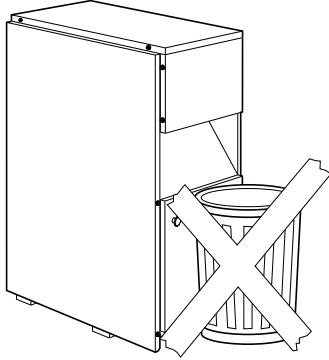
3

IMPORTANT FACTS ABOUT YOUR NEW BOILER

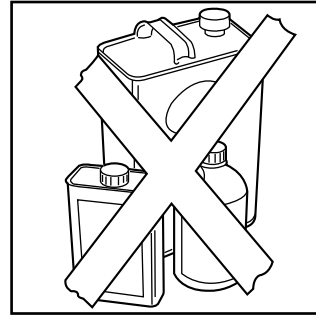
Your boiler must have air for combustion and ventilation. Do not enclose in an airtight room or enclosure.

To minimize the possibility of serious personal injury, fire, damage to your boiler, or improper operation, **carefully follow these safety rules:**

1. Keep the area around your boiler free of combustible materials, gasoline, and other flammable liquids and vapors.



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2. Do not cover the boiler, store trash or debris near it, or in any way block the flow of fresh air to the unit.
3. A boiler installed in an insulated space must be kept free and clear of insulating material. Examine the boiler area when installing or adding more insulation. Some materials may be combustible.
4. Combustion air must be clean and uncontaminated with chlorine or fluorine (halogenated hydrocarbons). These compounds are present in many products around the home such as water softener salts, laundry bleaches, detergents, adhesives, paints, varnishes, paint strippers, waxes, and plastics.

Make sure the combustion air for your boiler does not contain any of these compounds. Keep containers tightly closed. During remodeling or construction, be sure the air around your boiler is fresh and uncontaminated. If these compounds are burned in your boiler, the sections and metal vent system may deteriorate.

5. Improper installation, adjustment, alteration, service, maintenance, or use can cause carbon monoxide poisoning, explosion, fire, electric shock, or other occurrences which may injure you or damage your property. Consult a qualified installer, service agency, or the gas supplier for information or assistance.
6. 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 that has been under water.

STARTING YOUR BOILER

This appliance does not have a pilot. It is equipped with an ignition device that automatically lights the burner. **DO NOT** try to light the burner by hand.

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.

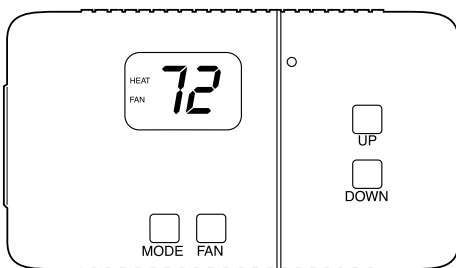
WHAT TO DO IF YOU SMELL GAS

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.

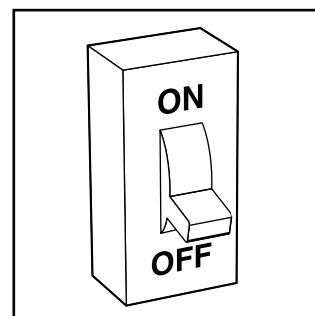
Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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.

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance.

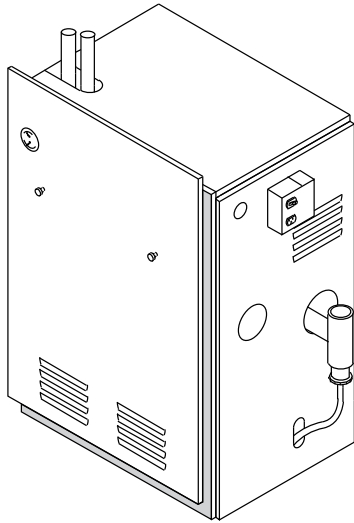


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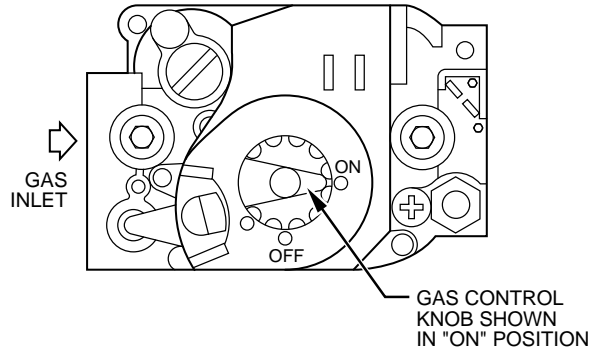


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3. This appliance is equipped with an ignition device, which automatically lights the burner. **DO NOT** try to light the burner by hand.
4. Remove the front jacket panel.
5. Turn the gas control knob clockwise to “OFF”.

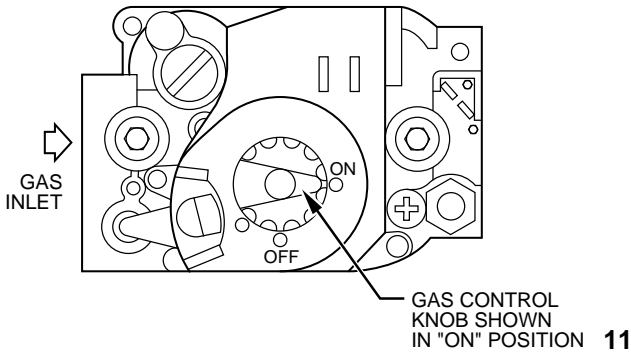


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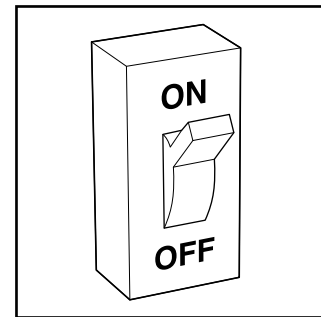


10

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow “WHAT TO DO IF YOU SMELL GAS” in the instructions above. If you don’t smell gas, go to next step.
7. Turn the gas control knob counterclockwise to “ON”.



11



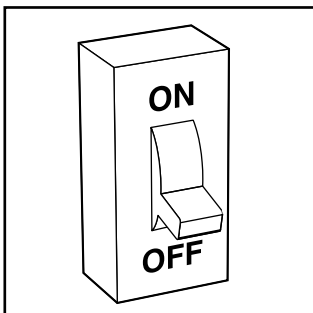
12

8. Replace the front jacket panel.
9. Turn on all electric power to the appliance.
10. Set thermostat to desired setting.
11. If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” and call your service technician or gas supplier.

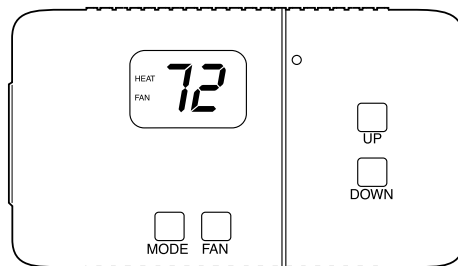
SHUTTING DOWN YOUR BOILER

Once the heating season has ended, or should you ever suspect a malfunction in your boiler, you will want to turn the boiler off. The following procedures must be followed:

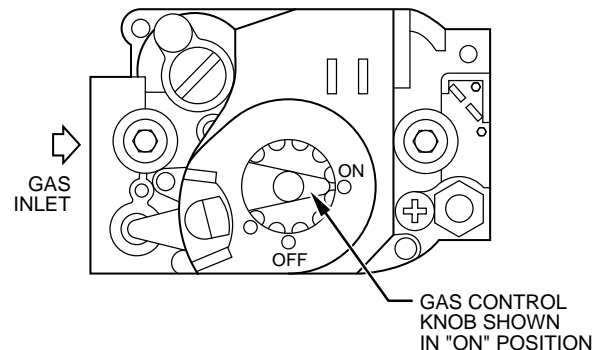
1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance.
3. Remove the front jacket panel.



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4. Turn the gas control knob clockwise to "OFF". Do not force.
5. Replace the front jacket panel.

PERFORMING ROUTINE MAINTENANCE

With only routine maintenance and care, you can rely on your new boiler to operate economically and reliably for many years. Some of the maintenance you may want to do yourself. However, before performing any service on your boiler, please carefully consider the following:

1. Turn off electrical power supply to your boiler before removing access door to service or perform maintenance.
2. Although special care has been taken to reduce sharp edges to a minimum, be extremely careful when handling parts or reaching into boiler.

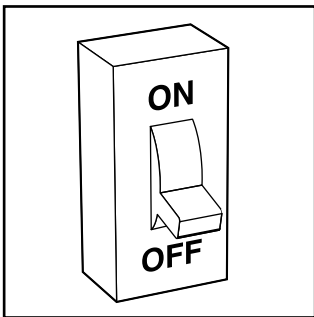
COMBUSTION AREA AND VENT SYSTEM

Visually inspect the combustion area and vent system before each heating season. When dirt, soot, scale, or rust builds up, your boiler can lose efficiency and perform improperly. Accumulations on the main burners can result in the burners firing out of normal sequence. This delayed ignition will create an alarmingly loud sound.

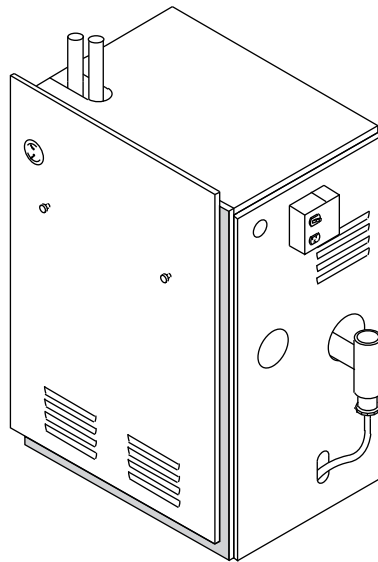
CAUTION: If your boiler makes an especially loud noise when the main burners light, shut down your boiler and call your dealer.

To inspect the combustion area and vent system, you will need a flashlight. Then referring to Fig. 16, 17, and 18, proceed as follows:

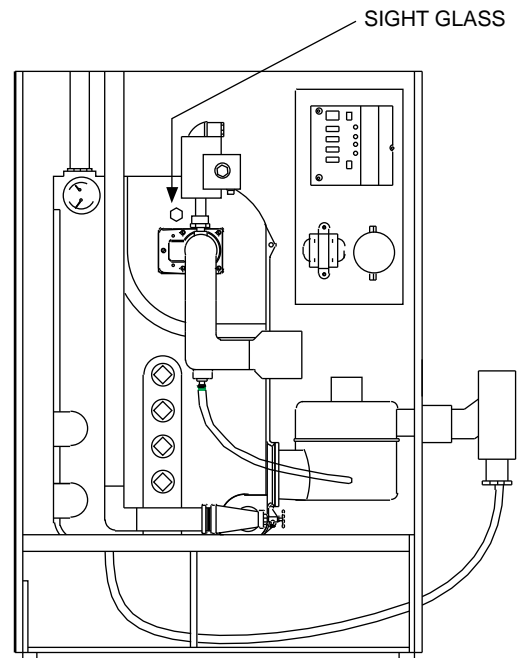
1. Turn the electrical supply to the boiler to OFF, and remove burner access door.



16



17



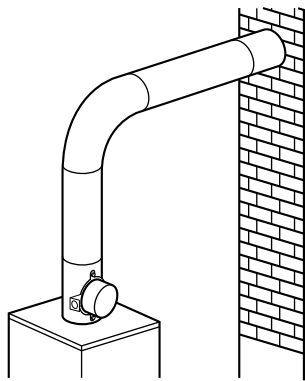
18

2. Using the sight glass, carefully inspect the burner area including the burner for dirt, soot, or rust, service and additional maintenance information can be located in the installation instructions.

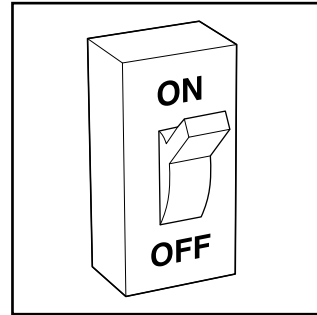
CAUTION: If dirt, rust, soot, or scale accumulations are found, call your dealer. DO NOT OPERATE YOUR BOILER.

3. Inspect the flue pipe for sags, holes, or disconnections.

WARNING: If holes are found in the vent pipe or if pipe has become disconnected, toxic fumes can escape into your home. DO NOT OPERATE YOUR BOILER. Call your dealer for service.



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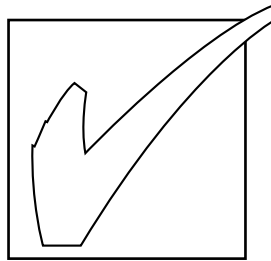
20

4. Turn the electrical supply to the boiler to ON.
5. Start your boiler and observe its operation. Watch the burner flames to see if they are bright blue.
6. Replace burner access door.

If you observe a suspected malfunction, or that the burner flames are not bright blue, call your dealer.

A CHECKUP LIST

Your boiler represents an important investment in your family's comfort and your home's value. To keep it in tip-top shape and prevent future problems, have a trained service specialist give your boiler a professional checkup at least once each year. The following checklist can be used as a guideline to proper service.



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- Inspect all flue product passages including the burner, passages between the section, and exhaust and intake pipes.
- Remove and clean intake air baffle. * Inspect all combustion and ventilation air passages and openings.
- Inspect electrical wiring, connections, and components for loose connections. * Check gas pipes leading to and inside you boiler for leaks.
- Clean all drain lines.
- Perform an operational checkout to determine whether your boiler is working properly, and if it requires adjustments.
- Check all safety controls such as limit switch, pressure relief valve, etc. for proper operation.
- Consult the installation instructions for additional service and maintenance information.

If your boiler is not operating or not performing properly, you may save the expense of a service call by checking a few things yourself before calling for service.

BEFORE YOU REQUEST A SERVICE CALL IF YOUR BOILER FAILS TO OPERATE

Follow this checklist step by step, advancing to the next one only if boiler fails to operate.

- Check thermostat for proper temperature setting.
- Is electrical power supply to boiler on?
- Is manual shut-off valve in gas supply pipe in open position? (Follow start-up procedures if you open gas line.)

NOTE: Turn the electrical power to OFF and remove access doors before continuing with the checklist.

- Control dial on gas valve in ON position? (Follow start-up procedures if you must reset dial to ON.)

If you boiler still fails to operate, call your service representative.

For you convenience, record the model and serial numbers of your new boiler on the provided form. Should you ever require service, you will have ready access to the information needed by the service representative.