

Jack Austin

HANG THESE INSTRUCTIONS NEAR THE WATER HEATER

INSTALLATION MANUAL

for the

WINKLER OIL FIRED WATER HEATER

Models: WH-30, WH-50, WH-70

GENERAL INFORMATION

INSPECTION:

Each shipment is inspected at the factory before packaging. In case of shortage or damage a claim should be filed with the delivering carrier immediately.

GOVERNING CODES:

This equipment, the fuel supply tank and lines must be installed in accordance with regulations of the National Board of Fire Underwriters and local codes. All electrical wiring must be installed in accordance with rules of the National Electric Code and local requirements.

COMBUSTION AIR:

The water heater must be installed in a room in which there is adequate air for the process of combustion. If the air supply in the room is inadequate, connect the room to an area of adequate air supply by using ducts. Ducts used to convey combustion air must have a total free area of 140 square inches for each gallon per hour input for each heating device in the room. Grilles used on air ducts must have a free area equal to 140 square inches for each gallon per hour input. Refer to the latest edition of the Standards of the National Board of Fire Underwriters for the installation of oil burning equipment.

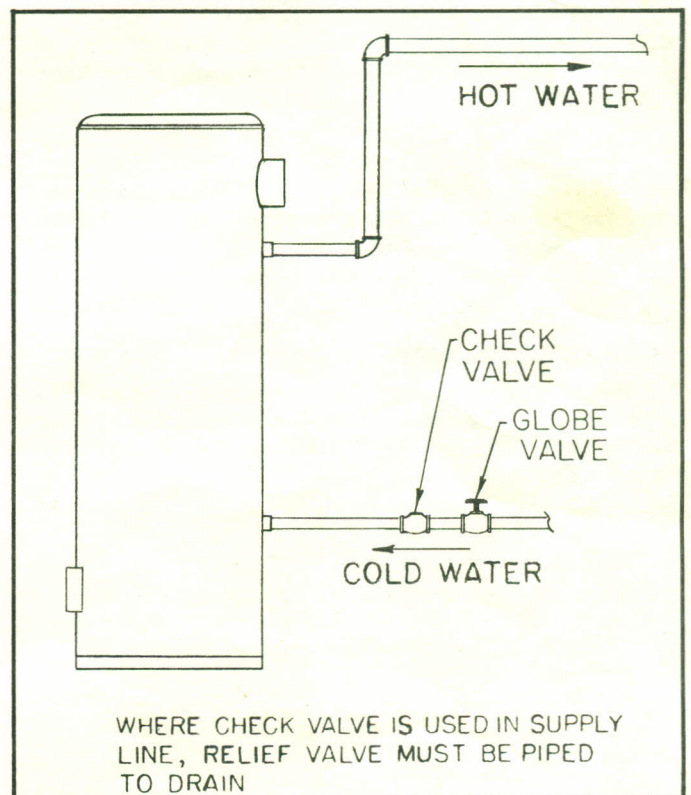


Fig. 1

THE INSTALLATION

HEATER LOCATION:

The water heater should be installed on a level, non-combustible floor. The chimney should be near by. Whenever possible, avoid using outside chimneys which are exposed to the weather on three sides.

BURNER INSTALLATION:

The water heater is approved for use with either a Winkler high pressure or low pressure oil burner.

Inspect the lightweight refractory combustion chamber carefully before installing the oil burner.

NOTE: When a low pressure burner is used, a burner support rod must be attached to the bottom of the burner housing to help support the burner. The support rod is included in the burner package.

Insert the burner blast tube into the heater and fasten with 4 flange bolts. **The burner must be installed level.**

Connect fuel lines to the burner at this time. Refer to burner manual for specific information on the burner.

THE PRIMARY CONTROL:

A cad cell type primary control is mounted on each oil burner. Refer to instruction sheet on the control. These instructions are included with the control.

THE OPERATING CONTROL:

Screw the brass immersion well into the tapping on the front of the heater. This tapping is located to the left and above the burner opening.

Insert the sensing element of the operating control into the immersion well and screw the control on to the well. Set the indicator on the operating control at **125°**. **Never higher than 140°**.

ELECTRIC WIRING:

All electric wiring must comply with local codes. Attach wiring as shown in the wiring diagram. The water heater electrical service should be from a fused disconnect switch separate from other appliances.

THE BAROMETRIC DRAFT CONTROL:

Connect a 24 gauge vent pipe between the water heater and a good chimney. Install a draft control in the vent pipe near the vent connection of the heater. Follow instructions packed with the control.

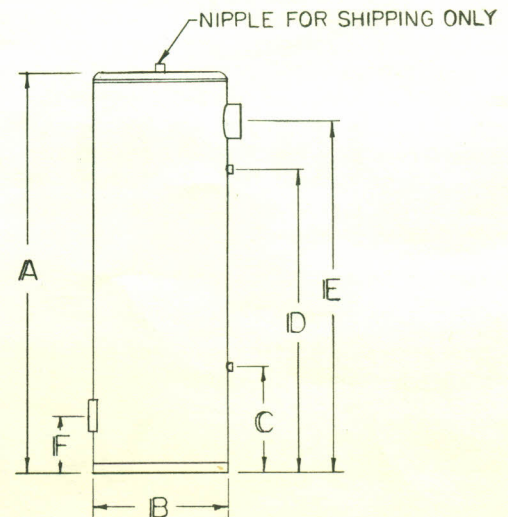
THE WATER LINES:

Connect the hot and cold water lines to the heater as illustrated in Fig. 2. Use unions near the tank for service accessibility. Check local codes governing the installation of a relief valve.

TO FILL THE TANK:

Turn on a hot water faucet (near the water heater location if possible) and open the globe valve in the water

DIMENSIONAL DRAWING FOR WH SERIES
OIL FIRED WATER HEATER



MODEL	A	B	C	D	E	F
WH-30	65½	19	17¼	56½	57½	8¾
WH-50	69¾	24	20¾	60½	63	9½
WH-70	72½	26	19½	62¾	64	9½

Fig. 2

heater supply (inlet) line. When a steady stream of water flows from the opened hot water faucet and the hissing and gurgling stops, the water heater is full. **Do not close the globe valve in the supply line to the heater.**

TO START THE BURNER:

1. Check electric wiring.
2. Check water heater to be sure it is full of water.
3. Check fuel supply.
4. Check operating control to make sure it is set on 140°.
5. Push red button on primary control.
6. Close fused disconnect switch in water heater electric supply line and the burner will start. (It may be necessary to bleed air out of burner fuel unit. Refer to burner manual.)

ADJUST THE BURNER:

Set the barometric damper to give .04" draft at the flue outlet of the heater. Adjust the burner for a clean fire.

CHECK ALL CONTROLS:

Before leaving the installation check all controls to make sure they are functioning properly.

CARE AND SERVICE:

The installation should be checked once each year to make sure the burner and all controls are functioning properly.

Instruct the home owner to flush out the tank once each month by opening the drain cock and letting water run into a bucket.

This tank is factory equipped with an anode as a protection against electrolysis and subsequent deterioration of the tank fittings. Under most conditions this anode will serve two full years. At the beginning of the third year the anode should be checked to see how much has been used. If necessary a new anode should be installed. Replacement anodes can be ordered from the factory. The anode is installed in the top of the tank. To inspect or replace the anode proceed as follows:

1. Turn off burner at fused disconnect.
2. Close globe valve in heater supply line.
3. Remove top of heater casing, lay back insulation and remove flue cover. This exposes the top of the tank.

4. The anode is attached to a 3/4" plug in the top of the tank. Remove the plug and anode. Inspect and/or replace.
5. Replace heater parts.
6. **Turn globe valve in water supply back on.**
7. Restore electric power.

FAILURE TO CARE FOR THE TANK PROPERLY CAN VOID THE WARRANTY.

WARNING:

IN HARD WATER AREAS where a build-up of limestone on the bottom of the tank is likely to occur, we suggest that a water softener be installed in the line ahead of the water heater. Wherever such a hard water condition prevails, the tank is not properly flushed out, there is always the danger of the limestone accumulating to a point where the bottom of the tank becomes insulated and, being subjected to the hot flame, will eventually crack and leak.

SPECIFICATIONS

MODELS

	WH-30	WH-50	WH-70
Firing rate No. 2 fuel	.75	1.20	1.35
Combustion chamber type	Refractory	Refractory	Refractory
Flue outlet size	6"	7"	7"
Burner opening diameter	5"	5"	5"
Water inlet size	3/4"	1 1/4"	1 1/4"
Water outlet size	3/4"	1 1/4"	1 1/4"
Anode tapping	Top	Top	Top
Operating control tapping	3/4"	3/4"	3/4"
Water tank capacity	30 Gal.	50 Gal.	70 Gal.
Recovery rate at max. firing rate, GPH @ 100° rise	120	160	180
Tank construction	Glass lined	Glass lined	Glass lined

