



INSTALLATION INSTRUCTIONS

Replacement Combustion Chamber Kit For
H B Smith Series 8
&
Hydrotherm PB
Oil Fired Boilers
Fits All Models With Swing-Out Door

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WARNING

This product contains fiberglass wool and ceramic fiber materials. Airborne fibers from these materials have been listed by the state of California as a possible cause of cancer through inhalation. Apply special care when handling these materials. (Burner door refractory, rear refractory, blankets, rope seal, jacket insulation, etc.)

Please see MSDS for more health and safety information.

BEFORE STARTING:



Failure to perform the following can cause severe personal injury, death or substantial property damage!

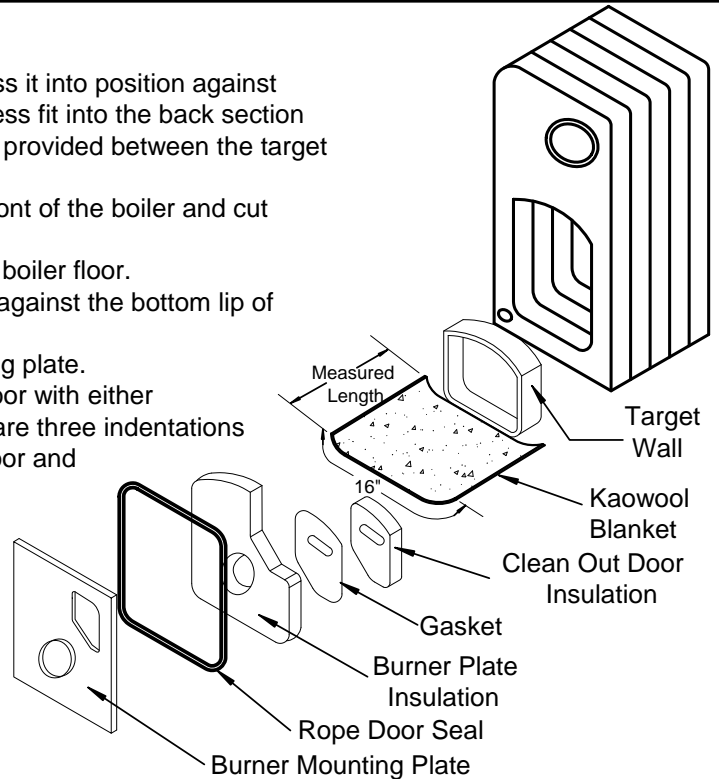
- * Read all instructions before starting.
- * Follow all instructions in proper order.
- * Turn off service switch on boiler and all other electrical disconnect switches.
- * Close fuel supply valve(s) and disconnect fuel line from burner.

REMOVAL:

1. Check to make sure all electric power is off, and the oil line is disconnected.
2. Remove Burner Mounting Plate and oil burner.
3. Remove the old Target wall, floor blanket, burner mounting plate insulation, and clean out door insulation.
4. Clean-out the combustion area.

INSTALLATION:

5. Insert the new target wall through the boiler opening, and press it into position against the backwall of the boiler. The target wall should be a tight press fit into the back section of the boiler. If it is loose, place the ceramic fiber paper shims provided between the target wall and the casting to insure a tight fit.
6. Measure the distance from the front of the target wall to the front of the boiler and cut the 16" wide Kaowool blanket provided to this length.
7. Open the bottle of waterglass and spread the contents on the boiler floor.
8. Place the blanket on the floor of the boiler. Make sure it is up against the bottom lip of the target wall and centered from side to side.
9. Press the new Burner Plate Insulation into the burner mounting plate.
10. The Clean Out Door Insulation is mounted to the swing-out door with either one or two screws depending on the age of the boiler. There are three indentations to mark the possible hole locations. Look at your swing-out door and drill the hole locations that match up.
11. Mount the Clean Out Door Insulation and gasket using the stainless steel hardware provided. The gasket goes against the door with the door insulation on top of it. For single hole mounting, use one screw and one nut with the large 1-1/2" washer. If using two holes, use two screws and nuts with the two smaller washers. After tightening the screws, use a knife to enlarge the observation opening in the gasket.
12. Replace the rope seal around the burner mounting plate.
13. Reinstall the burner mounting plate and burner.
14. Reconnect and turn on the oil line and electric power.
15. Fire the burner for 15 minutes to allow the chamber to "cure".



Note: When first fired, some smoke and a slight odor will occur.
This is part of the curing process.

16. Combustion tests MUST be performed AFTER the curing process is complete to insure proper performance.