

GENERAL RETUBE INSTRUCTIONS
PARKER INDIRECT WATER HEATERS

I. WHEN HEATERS SHOULD BE RETUBED

Heater tubes should be replaced only if deemed advisable from an internal and external inspection. If the tubes are leaking resulting from a general scale condition, corrosion, electrolysis or overheating, it is considered advisable to replace the entire set if such condition is present in several tubes. It is not considered feasible to replace only one tube unless a careful internal inspection is made and all other tubes are found to be in perfect condition. See Special Service Bulletin SB-210-5-B for suggestions on sealing small pinhole leaks.

Determine the cause of the tube replacement and take the proper precautionary measures to prevent recurrence. If the replacement resulted from overheating, proper controls should be installed and sufficient maintenance undertaken to eliminate future problems. The primary heater water is in a closed sealed unit and recirculates only within the heater. If the tube replacement resulted from a water condition, all leaks should be repaired so there will be no water loss in the system and proper water treatment used. See Service Bulletin WT 210 for proper recommendations on cleaning and water treatment.

II. RETUBE INSTRUCTIONS

1. Cabinet must be removed for retubing. The cabinet is a two section model and can be removed as follows: Shut off gas and electricity.

A. Disconnect and remove the following:

1. Inlet and outlet circulating lines.
2. Heat exchanger.
3. Drain line.
4. Gas line entering cabinet.
5. Safety valve, pressure gauge and Expansion Tank.
6. Any other connecting lines.
7. Electrical connections, probe fittings and temperature controls.
8. Vent Stack.

B. Remove the cabinet as follows:

1. Take the sheet metal screws out of the top cover and lift off.
 2. Take off the top insulation sheet and top inner-liner.
 3. Use "A" frame to support tube bundle through lift hook located on top of tube bundle. On Models WH-300 to WH-970, the tube bundle must be supported while removing cabinet.
 4. Remove door.
 5. Remove the bolts attaching the frame to the cabinet.
 6. Pull the cabinet apart from the center and lift off.
2. Heater has one complete set of tubes. Using "A" frame or other adequate support, replace the complete internal unit. Make certain that the tube braces and baffles furnished with the new tube bundle are in proper position.
3. Clean burners and spuds.
4. Replace the cabinet in the same manner disassembled. It is recommended to replace any insulation deteriorated, repair any burned out metal or patch over, and refinish the cabinet with heat resistant enamel.
5. Reassemble all of the connections and fittings in the same manner taken apart. Check Expansion Tank, connection pipe and heat exchanger for stoppage or leaks before reinstalling. Clean or replace if necessary.
6. Before putting into service, flush the system thoroughly so that it is clean and tests against leaks.
7. Fire test the boiler and bring up to operating temperature, making a complete test to be certain that performance is satisfactory.