

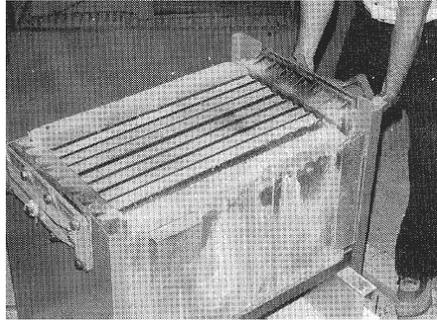
# Heat Exchanger Replacement

## Gas-Fired Hydronic Boilers, Volume Water and Pool Heaters

### Sizes 175,000 - 5,000,000 BTU/hr.

**To Remove Heat Exchanger:**

1. Turn off all electrical power to the heater.
2. Disconnect the water piping from the header.
3. Remove the vent, draft diverter, and flue extension.
4. Remove the jacket top, which is secured with sheet metal screws.
5. Withdraw the flue collector, which is held in place with cement or metal screws.
6. Remove the sheet metal strips, if present on your model, across the ends of the heater above the headers.
7. Remove the capillary tubing going to the thermostat bulb and high limit switch bulb. If the heat exchanger is to be reversed, the existing tubing will have to be replaced with longer tubing.
8. On heaters equipped with a mounted pump on the side of the jacket, remove the screws holding the bracket. Maintain the pump, bracket, and heat exchanger as one unit. Disconnect all electrical wiring.
9. Remove the front and rear tile covers. Lift out the heat exchanger. It may have to be jiggled carefully to break the furnace cement seal.

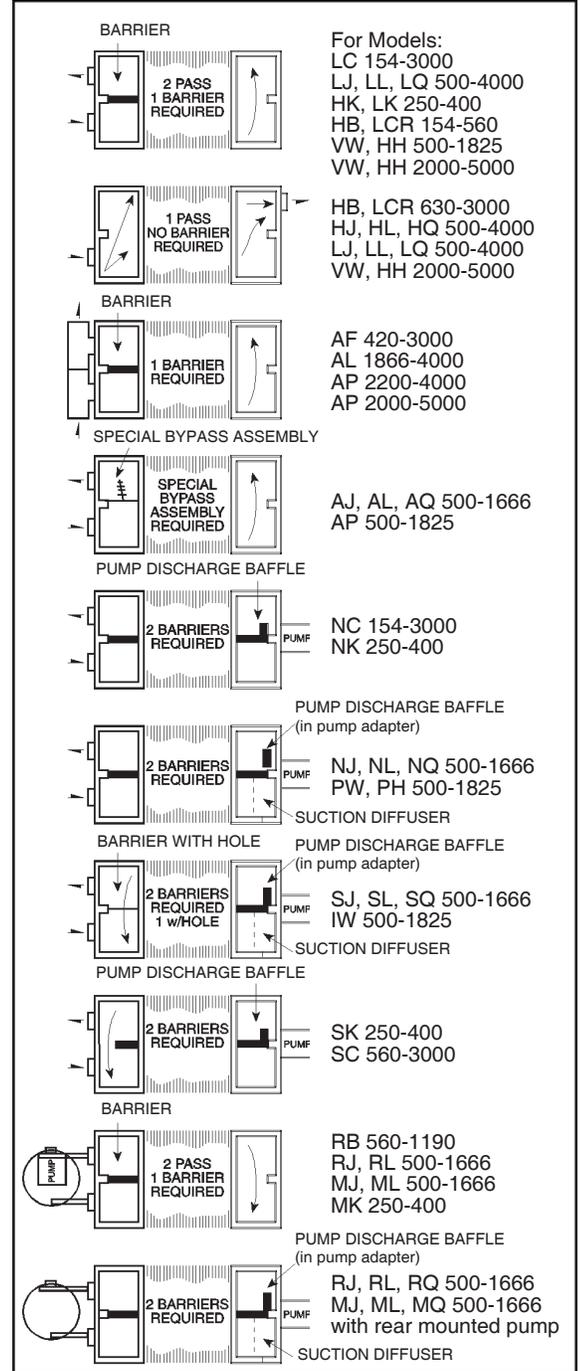


**To Reinstall the Heat Exchanger:**

1. Coat the upper surfaces of the side tiles with furnace cement before carefully lowering the heat exchanger into place.
2. Verify that all of the "V" and "T" baffles are properly installed between the heat exchanger tubes. Also, be sure end refractory tiles fit inside of the casting ribs and seal on the flat part of the casting.
3. Replace the front and rear tile covers.
4. Repeat steps 1 through 8 of the removal procedure in reverse order to complete the installation.

**Water Barrier Position**

Water barrier must be installed as shown in diagrams at right or warranty is void. The diverter plate must be reinstalled between the tub and header cover on the inlet side of the heat exchanger. When replacing a heat exchanger, the water barrier must be installed to ensure a proper fit with the replacement heat exchanger. Water barrier p/n for I/E 500-1825 and Q boilers 500-1666 is 20230101. Water barrier p/n for LB 2000-5000 is 20230100.



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