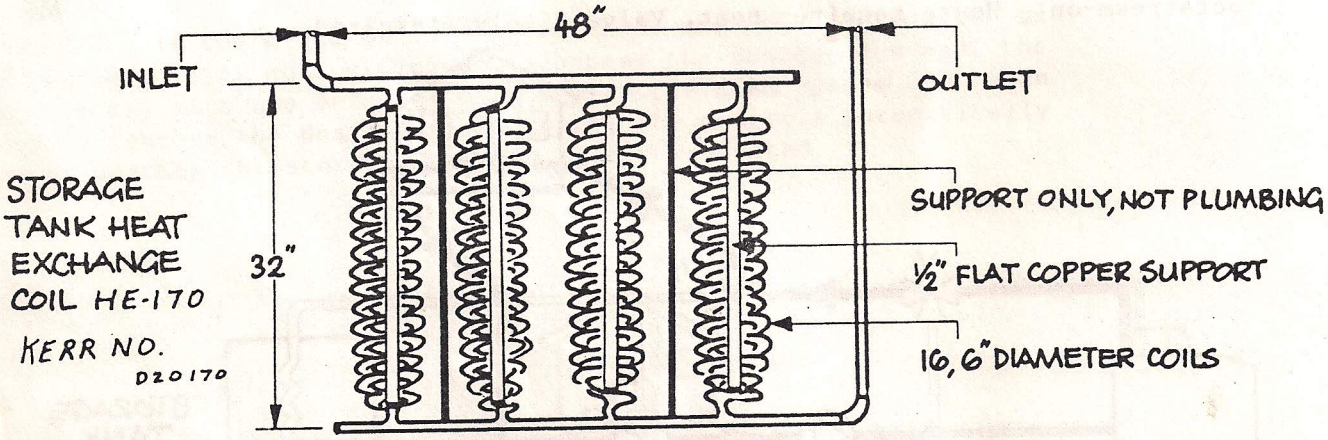
SECTION 3 - HEAT STORAGE SYSTEMS

3.2 Site-Built EPDM Storage Tank

Generally speaking, the larger the storage tanks connected to the Jetstream, the longer the homeowner can go between firings. Since each installation is dependent on the house in question we suggest the homeowner consult his Jetstream dealer on storage requirements.

For new homes, built-in concrete cisterns are recommended. For other homes "EPDM" rubber lined tanks constructed from plywood and 2" x 6" lumber are recommended.

In all cases, KERR recommends using a pressurized loop with a heat exchanger in a large, unpressurized storage tank, as shown below:



Coil rating should be 170,000 BTU/h at 40 F temperature differential and 10 gallons per minute(U.S.). A typical coil with 1 1/4" connections, as illustrated above would consist of 4 coils of 1/2" finned copper 16 turns in 32 inches. NOTE - This type of coil is recommended to ensure good heat transfer when taking heat from storage.

Alternatively, a simpler heat exchanger can be made as shown, using 80' of 1" hard copper with return bend elbows soldered to the lenths of pipe. A shaped coil may be also made of 100' of soft copper. This coil may not function as effectively as the one shown above.