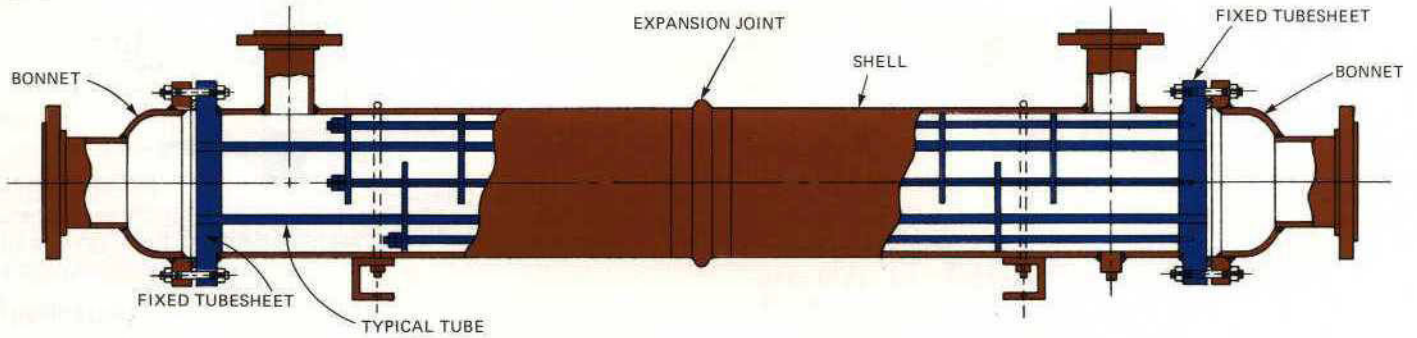


Type "BEM"



Construction

Fixed tubesheet, non-removable bundle, straight tube, ASME and TEMA "B", "C" or "R" construction.

Application

Any clean fluid on the shell side, such as lube oils, hydraulic oils, most chemicals, acids, refrigerants, steam and other gases.

Advantages

- No shell side gaskets or packing to potentially leak.
- Provides maximum heat transfer surface per given shell size and thermal efficiency is good, since the O.T.L. is extremely close to the shell ID.
- Straight tubes can be easily cleaned by rodding.
- Provides multi-pass tube side arrangements.
- Less costly than removable bundle units.

Limitations

1. Tube bundle is not removable for cleaning or replacement.
2. Shell side can only be cleaned by chemical methods.
3. No provision for thermal expansion between the shell and tubes, unless a shell expansion joint is used.

General Specifications

Shell side: Sizes from 6" to 32" dia.

Materials: Carbon steel is standard, alloys are available.

Pressures: 150 PSIG standard, up to 600 PSIG available.

Temperatures: 300°F standard, up to 600°F available.

Tube side: Tube sizes $\frac{3}{8}$ " OD to 1" OD.

Materials: Admiralty and copper alloys, carbon steel, stainless steel, monel and others.

Pressures: 150 PSIG standard up to 3000 PSIG available.

Temperatures: 300°F standard, up to 600°F available.