

Product Code . JL-HTL-10051

Concentric Tube Heat Exchanger



Description

Concentric Tube Heat Exchanger

(A) Plain Tube (Water To Water)

The apparatus consists of two concentric tubes.

Inner tube consists of copper tube through which hot water flows.

While the outer tube consists of GI pipe through which cold water flows.

The arrangement enables the parallel and counter flow of the cold water.

The inlet and outlet temperatures and the flow measurement enable to find out the heat exchanged LMTD and effectiveness of the equipment.

Specifications:-

1. Inner copper tube I.D, 12.7mm. and outer G. I. Pipe I. D. 15mm. approx. and 1.5m. length.
2. Thermometers – 4 nos.
3. Measuring flask – 1 Lit. capacity.
4. Geyser-3 kW. Single phase.

Services required-

1.220v, 15A, stabilized single-phase AC supply.

2.Floor area – 3m x 1 m x 1 m height.

(B) Finned Tube (Water To Air)

The apparatus consists of two concentric tubes.

Inner tube consists of copper tube through which hot water flows.

It is finned at its outer diameter to increase the heat transfer surface.

While the outer tube consists of GI pipe through which cold air flows.

The arrangement enables the parallel and counter flow of the air.

The inlet and outlet temperatures and the flow measurement enable to find out the heat exchanged LMTD and effectiveness of the equipment.

Specifications:-

1.Inner copper tube I.D. 12.7mm. and outer G. I. Pipe I. D. 25mm. approx. and 1m. length.

2.Thermometers – 4 nos.

3.Orifice meter along with manometer.

4.Measuring flask – 1 Lit. Capacity.

5.Geyser-3 kW. Single phase.

Services Required:-

1.220v, 15A, stabilized single-phase AC supply.

2.Floor area – 3m x 1m x 1m height.
