

HT-029 SPIRAL TUBE HEAT EXCHANGER



RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To determine Heat transfer rate of heating & cooling.
2. To determine Overall heat transfer coefficient.
3. To calculate Effectiveness of heat exchanger.
4. The experiments can be conducted at various values of input & calculation can be made accordingly.

TECHNICAL DESCRIPTION :

The apparatus consists of a Shell and Tube type spiral tube heat exchanger.

The hot fluid is hot water which is obtained from an electrical geyser & it flows through the coiled tube. While the cold fluid is cold water, flowing through the shell. The flow rate of hot and cold water are measured by using rotameter. Temperatures at inlet and outlet are measured by using thermocouples and temperature indicator.

DIMENSIONS AND WEIGHT :

Size :1.2 m.(L)x 1 m(W) X 2m (H)

Weight :Approx. 90 Kg , Water: @10 Lpm

SERVICE REQUIRED : 440 v Ac Supply 50 Hz, Three Phase.

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY: Data logging Facility