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Product Name :
Multi Heat Exchanger

Product Code :
LBNY-0005-11200073



Description :

The unit consists of the three heat exchangers, and a service module. The module comprises a hot water tank with a transfer pump and instruments for monitoring and control. The Multi Heat Exchanger apparatus is used for studying of three types of heat exchangers namely-concentric tube, shell and tube, and plate-under parallel or counter flow conditions. The unit requires outside water supply. Changing from one type of heat exchanger to another is by rearranging flexible hoses and changing from parallel to counter flow is by switching two cold water hoses.

Experiments:

Demonstration of heat transfer under parallel or counter flow.
Effects of flow rate and temperature difference.
Demonstration of batch type heat transfer for jacketed vessel.
Comparison of heat transfer coefficients for concentric tube, shell and tube, and plate heat exchanger.
Determination heat transfer coefficient.

Technical Specification :

Technical Data:

Heat exchangers:

Shell and tube : Stainless steel shell and inner tubes.

Plate : Stainless steel multiple plates.

Concentric tube : Stainless steel outer and inner tubes with 2 temperature sensors.

Service module consisting of :

Hot water tank and pump.

Flow meters : Hot water and cold water.
Heater : 3000 W.
Temperatures : 5 ea.
Power supply : 220V 1Ph 50 Hz.



Laboratory Instrument India