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**Product Name :**  
Multi Heat Exchanger Transparent Casing

**Product Code :**  
LBNY-0005-11200078



### Description :

The module comprises a hot water tank with a transfer pump and instruments for monitoring and control. Selection of the heat exchanger is simply done by opening a valve and changing from parallel to counter flow is by switching two flexible hoses. The Multi Heat Exchanger Transparent Casing 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 consists of the three heat exchangers, and a service module. The unit requires outside water supply.

### Experiments:

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

### Technical Specification :

#### Technical Data:

Heat exchangers:

Shell and tube : Stainless steel inner tubes with clear acrylic casing.

Plate : Stainless steel multiple plates.

Concentric tube : 2 sections of stainless steel inner tube with clear acrylic casing and 2 temperature sensors.

Service module consisting of :

Hot water tank and pump.

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



**Laboratory Instrument India**