

**Product Name :**  
Parallel and Counter Flow Heat Exchanger with Data Acquisition**Product Code :**  
HEMT0013**Description :**

Parallel and Counter Flow Heat Exchanger with Data Acquisition

**Technical Specification :**

The apparatus is used for studying the heat transfer through a concentric tube under parallel or counter flow conditions.

The unit consists of a concentric tube heat exchanger, and a service module.

The module comprises a hot water tank with a transfer pump and instruments for monitoring and control.

The unit requires outside water supply.

The microprocessor-based instrumentation is well protected in the housing.

The software consists of software for system operation and for data acquisition and educational software is connected to the PC via USB.

Parallel or counter flow is by switching cold hoses valves.

**FEATURES:**

Demonstration of heat transfer under parallel and counter flow.

Determination of heat transfer coefficient.

Effects of flow rate and temperature difference.

Functions of the software: educational software, data acquisition, system operation

Useful for institutions, research laboratories & insulating powder manufactures.

**SPECIFICATION:**

Construction: 2 sections of insulated concentric stainless steel tubes.

Service module consisting of:

Hot water tank and pump.

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Heater: 3000 W.  
Temperatures: 6 ea.  
Flow meters: Hot water and cold water.  
Temperature control unit: 1 ea.  
Stirrer: 0- 500 rpm  
Measuring ranges :  
Temperature: 2x 0...325°C  
Heating power: 0...3000W  
Required for Operation :  
230V, 50Hz, 1 phase  
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

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