

**Product Name :**

Astra Scientific Parallel And Counter Flow Heat Exchanger With Data Acquisition

**Product Code :**

HeatMassLab0014

**Description :**

Astra Scientific Parallel And Counter Flow Heat Exchanger With Data Acquisition

**Technical Specification :**

The Offers basic experimental apparatus 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. Parallel or counter flow is by switching cold hoses valves. 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.

**FEATURES:**

- Demonstration of heat transfer under parallel and counter flow.
- Determination of heat transfer coefficient.

- Effects of flow rate and temperature difference.
- Useful for institutions, research laboratories & insulating powder manufactures
- Functions of the software: educational software, data acquisition, system operation

**SPECIFICATION:**

- Construction: 2 sections of insulated concentric stainless steel tubes.
- Service module consisting of:
- Hot water tank and pump.

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



## **Astra Scientific**

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