

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

www.astrascientific.com, **Email:** info@astrascientific.com

Address: K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265