

**Product Name :**

Computer Controlled Heat Exchanger Module

**Product Code :**

Transfer Lab0025

**Description :**

Computer Controlled Heat Exchanger Module

**Technical Specification :**

Computer Controlled Heat Exchanger Module

Backed by the vast industry exposure, we are involved in offering a wide range of **Computer Controlled Heat Exchanger Module**

in the market. These products are manufactured from best quality components. These modules comprise hot water vessel, hot water recirculation pump, cold water control system, computer interface and all necessary instrumentation.

**Features:**

- Less maintenance
- Rugged in design
- Portable structure

**Specification:**

- Benchtop service unit, designed to accommodate a range of different small-scale heat exchangers.

- Comprises hot water vessel, hot water recirculation pump, cold water control system, computer interface and all necessary instrumentation.
- The hot water vessel is made from clear acrylic (for visibility) and includes a 2kW heater with thermostatic over-temperature cut-out and low water level detection.
- The hot water pump is bi-directional (to allow co-current and counter- current investigations without re-configuring the hardware) and the flow rate is under computer control.
- The cold water system includes a manually adjustable pressure regulator and a flow control valve which is under computer control.
- Flow rates for both fluid streams in excess of 5L/min are achievable, but this may be restricted by some designs of heat exchanger .
- Up to 10 temperatures (K-type thermocouples) can be monitored using the service unit. Operating range, 0-75°C, resolution 0.1°C.
- Two flow meters are included, operating range 0.2 to 9 l/min resolution 0.1l/min
- All data is available to a (user supplied) Windows PC, via a USB interface. This computer is also used to control the flow rates, hot water temperature, and hot water direction.
- Full software for educational use is included.
- A comprehensive instruction manual is included.

#### **Features of Computer Controlled Heat Exchanger Service Module:**

- Small-scale, benchtop equipment
- Fast response times allow in depth investigations in a short time
- Representative of industrial heat exchangers
- Multiple, industrially representative heat exchangers available
- All functions computer controlled, including reversing of one of the fluid streams for co-current and counter-current investigations

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- Standard USB interface
  - Safety functions implemented to allow for remote operation by computer
  - Full educational software with data logging, control, graph plotting, and detailed Help
  - Suitable for project work. The service bench provides facilities for evaluating in-house heat exchanger designs

## Civil Mechanical India

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