

Product Name :
Heat Exchanger Service Module**Product Code :**
ALABS-A143-013**Description :**

Heat Exchanger Service Module

Technical Specification :

Heat Exchanger Service Module

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,

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.

Key Features:

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 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

Description:

The equipment is a service unit, to allow the operation of one of the range of small scale heat exchanger systems. It provides controlled cold water flow, bi-directional hot water flow and the instrumentation required to do a series of in-depth investigations into heat exchanger performance. The individual heat exchangers can be quickly changed over, to allow comparisons between different types of heat exchanger to be made



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