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Product Name :
Heat Exchanger Demonstrator

Product Code :
ENGLABINGCAG10400004



Description :

Heat Exchanger Demonstrator

Technical Specification :

The Heat Exchanger Demonstrator consists of two heat exchangers with associated temperature indicators, flow indicators and a temperature indicating controller.

A valve is provided to reverse the tube-side flow direction.

The two exchangers are of similar surface area but with unique design features.

Single pass shell and tube exchanger brass

Plate exchanger with stainless steel plates

Temperature and flow data obtained can be used to calculate energy balance, heat transfer and heat transfer coefficients.

Function of Heat Exchanger Demonstrator

The Heat Exchanger Demonstrator is connected to hot and cool tap water. Process (hot) water flow is manually controlled.

Cooling water flow may be either manually controlled or automatically controlled to a selected process temperature set-point.

Trainees select exchanger type, flow direction and flow rate then read and record the flows and temperatures for further analysis.

Specification of Heat Exchanger Demonstrator

Process water flow rate is controlled with flow meters and manual control valve

Cooling water flow is controlled with PID controller and control valve based on process discharge temperature
Temperature measurement of inlet and discharge waters
A valve is provided to reverse the tube-side flow direction.
Mounted on a cart for ease of movement and storage
Approximate overall dimensions 80 x 45 x 120 cm high
Available in all world voltages frequencies



Engineering Lab Equipment India