

Advanced Multi - Heat Exchanger Test Rig

Transforming energy efficiency through heat exchange solutions



Specification

- Manual Control Panel (Automatic panel is optional)
- Water storage tank : up to 100 Liters, Tank MOC: SS304 with insulation
- Water Heater: up to 3 kW
- Centrifugal Pumps: 0.5 or 1 HP
- Pumps flow controlled by VFD
- Digital water flow sensor
- Three types of Heat exchanger (Tube-in-Tube Heat Exchanger, Plate Heat Exchanger, Shell & Tube Heat Exchanger (all Heat exchanger MOC is SS304/316)
- Provision of other heat exchanger testing.
- Data logger with USB port for data collection
- Multiple process flow direction options for flexibility in testing configurations.

Learning Outcome

- Understand the principles and operation of heat exchangers with multiple configurations.
- Gain practical skills in setting up and calibrating a multi-heat exchanger test rig.
- Analyze thermal performance across different heat exchanger designs and materials.
- Explore the impact of flow rates, temperatures, and fluid properties on heat exchanger performance.
- Acquire knowledge of maintenance and safety protocols specific to heat exchanger systems.
- Apply experimental data to validate theoretical heat transfer models and design criteria.
- Comparison of the different types of the heat exchanger performance.

Application

- Testing and optimizing heat exchanger designs and configurations for industries
- Education and Training
- Testing and Validation
- Quality control
- Research and development for Energy and other sectors
- Product Development



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