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Product Name :

Parallel and Counter Flow Heat Exchanger

Product Code :

SLE/MCE/74



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Description :

Parallel and Counter Flow Heat Exchanger (Product Code: SLE/MCE/74) is a concentric-tube heat exchanger trainer used to compare parallel-flow and counter-flow operation and todetermine the heat transfer coefficient in heat transfer laboratories. As engineering educationalequipment for colleges and research laboratories, it combines two insulated stainless steel tubesections with a 3000 W heated hot-water tank, hot- and cold-water flow meters and dataacquisition software. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Construction	2 sections of insulated concentric stainless steel tubes
Flow arrangements	Parallel flow and counter flow
Hot water supply	Hot water tank and pump; heater 3000 W
Temperature control unit	1
Stirrer	0–500 rpm
Flow meters	Hot water and cold water
Temperature measurement	6 measuring points; measuring range 0–325 °C
Measuring range – heating power	0–3000 W
Software functions	Educational software, data acquisition and system operation
Dimensions	1200 × 600 × 800 mm
Weight	40 kg
Power supply options	230 V, 50 Hz, 1 phase; 230 V, 60 Hz, 1 phase; or 120 V, 60 Hz, 1 phase
Product code	SLE/MCE/74
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Parallel and Counter Flow Heat Exchanger Used For?

In parallel flow the hot and cold streams enter at the same end and their temperatures converge along the tube; in counter flow they enter at opposite ends, so the cold outlet can approach the hot inlet temperature more closely. Switching between the two on the same exchanger lets students measure inlet and outlet temperatures of both streams, calculate the log-mean temperature difference, heat duty and heat transfer coefficient, and see for themselves why counter flow is usually more effective.

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