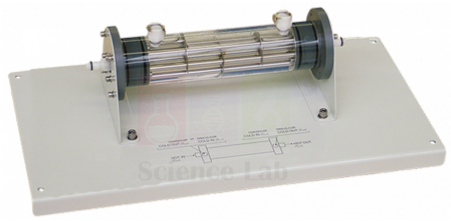
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Product Name :

Shell and Tube Heat Exchanger

Product Code :

SLE/EA/14



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Description :

Shell and Tube Heat Exchanger (Product Code: SLE/EA/14) is a teaching heat exchanger used to demonstrate one of the most common designs in industry, with one fluid flowing through a bundle of small tubes and the other through the surrounding shell, in engineering laboratories. Baffles around the tube bundle create turbulent mixed flow on the shell side, helping students link lab results with plant practice. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Construction	A large tube (the shell) surrounding several smaller tubes (the tube bundle)
Flow arrangement	One fluid passes through the shell and the other through the tube bundle, transferring heat between them
Baffles	Fitted around the bundle to create a turbulent mixed flow
Design advantage	Compact, yet able to work at higher pressures than other designs
Industrial relevance	One of the most common heat exchanger types used in industry
Product code	SLE/EA/14
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Shell and Tube Heat Exchanger Used For?

In a typical exercise, students record the inlet and outlet temperatures and flow rates of the shell-side and tube-side streams, work out the heat transferred, and compare the result with other exchanger types. Seeing the tube bundle inside a shell also makes the textbook diagrams of industrial exchangers much easier to follow.

The baffles force the shell-side fluid across the tubes rather than simply along them, which raises turbulence and improves heat transfer. Polytechnics and TVET colleges value the unit because it is the exchanger trainees are most likely to meet on a plant, and ScienceLab builds it as a TVET lab equipment manufacturer in India.

OEM Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, is the OEM (original equipment manufacturer) of this Shell and Tube Heat Exchanger and produces it at its own licensed factory in Saha, Ambala, Haryana, India. Institutions receive it factory-direct rather than through a trading intermediary, so technical questions and follow-up orders reach the team that makes it. Distributors and importers can also buy directly for projects in India and international markets. Background on the company is on the ScienceLab profile.

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