Email : sales@scilabexport.com
Phone: +91-7082934803

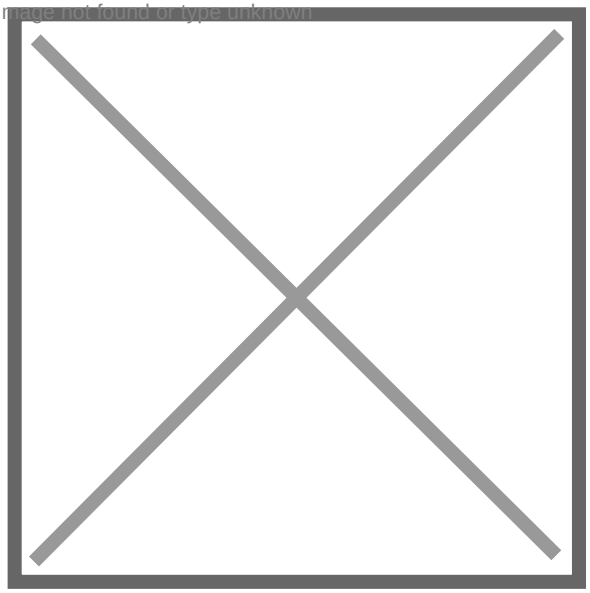
**Product Name :**

Jacketed Vessel and Coil

**Product Code :**

SLE/EA/13

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## Description :

**Jacketed Vessel and Coil** (Product Code: SLE/EA/13) is a process-style heat exchanger used to show how a stirred vessel is heated either through its outer jacket or through an internal coil in chemical and mechanical engineering laboratories. Students run it with a continuous feed or a fixed batch, using a motorised stirrer and a dedicated batch thermocouple to see how agitation changes heat transfer. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM and technical educational equipment manufacturer, at its own factory in Ambala, India.

### Key Details

| Parameter | Detail |
|---|---|
| Type | Heat exchanger that mimics those used in the process industry |
| Heating methods | Through the outer skin (‘jacket’) of the vessel, or through a coil inside the vessel |
| Operating modes | Continuous feed to the vessel for heating, or a fixed batch |
| Agitation | Motorised stirrer to show how stirring affects heat transfer |
| Temperature measurement | Extra thermocouple to measure the batch temperature |
| Fluid connections | Self-sealing quick connectors between the Service Module and the heat exchanger, for safety and simplicity |
| Error-proofing | Hot and cold fluid streams use different connectors |
| Product code | SLE/EA/13 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

### What Is the Jacketed Vessel and Coil Used For?

The unit recreates the stirred-tank heating found across the process industry, so students can compare jacket heating with coil heating in the same vessel. Switching the motorised stirrer on and off between runs shows clearly how agitation raises the rate of heat transfer to the liquid.

In batch mode, a fixed charge is heated and the extra thermocouple tracks the batch temperature over time; with continuous feed, liquid flows through while it is heated, giving a steady-state comparison. Always couple the hot and cold streams to their own connectors, which are deliberately different to prevent mix-ups. This makes it a realistic piece of engineering lab equipment in India for unit-operations teaching.

### What to Specify When Ordering

- Whether you also need the Service Module that supplies the hot and cold fluid streams through the quick connectors.
- Which other heat exchangers from the same range you want for side-by-side comparison.
- The number of units required for your laboratory.

### OEM

Jain S M