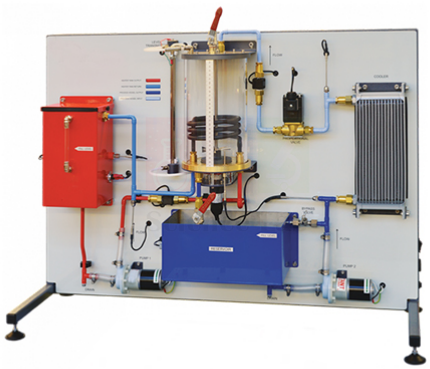
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Product Name :

Process Trainer

Product Code :

SLE/EE/07



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Description :

Process Trainer (Product Code: SLE/EE/07) is a two-module teaching system used to build and study temperature, level and pressure control loops in engineering college and polytechnic laboratories. Its experiment module centres on a stirred process vessel linked by a heat exchanger to separate heating and cooling loops, while a control module with a mimic diagram gives students access to every connection. The trainer is produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
System layout	Experiment module plus a control module that links to it
Process vessel	Stirrer, temperature sensor, level and pressure sensors, heat exchanger and vent valve
Heating loop	Pump, heater tank and heater
Process and cooling loop	Pump, cooler, fan, valves and reservoir
Loop coupling	The two loops are linked by the heat exchanger in the process vessel
Connections	Sockets and a built-in computer interface on the experimentmodule
Control module	Clear mimic diagram with switches and controls; access to the connections of each part of the experiment module
Manual controls	Pump speed, cooler-fan speed, heater power and stirrer
Product code	SLE/EE/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Process Trainer Used For?

The Process Trainer lets students see how a real process plant behaves before they automate it. Running the heating loop warms the vessel through the heat exchanger, the cooling loop removes heat through the cooler and fan, and the stirrer keeps the contents mixed so the temperature sensor reads a representative value. From the control module, learners first operate every actuator by hand and record how temperature, level and pressure respond.

With that open-loop data they can close loops through the sockets or the built-in computer interface and compare manual, on/off and PID-type strategies. The unit fits process-instrumentation, chemical-engineering and control-systems practicals, and is a practical choice of lab equipment for technical institutes that want several measured variables on one system.

OEM Manufacturer

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