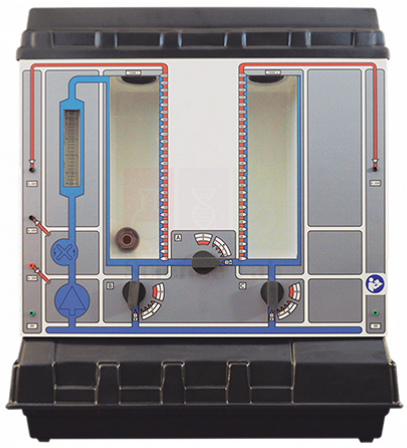
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Product Name :

Coupled Tanks Apparatus

Product Code :

SLE/ETC/02



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Description :

Coupled Tanks Apparatus (Product Code: SLE/ETC/02) is a liquid-level control trainer used to investigate basic and advanced control engineering principles with one or two interconnected tanks in university and college laboratories. A variable-speed pump fills the left-hand tank, a connecting valve brings in the second tank for two-tank work, and each tank has a level sensor plus a scale for checking its calibration. **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, makes it at its own factory in Ambala, India.

Key Details

Parameter	Detail
Tanks	Two tanks; a valve connects the left-hand tank to the second tank when two-tank experiments are needed
Pump	Variable-speed pump forcing water into the left-hand tank
Level sensing	A level sensor on each tank, giving an output signal proportional to the water level
Level scales	Scale on each tank so students can check the level-sensor calibration
Flow measurement	Rotameter-type flow meter showing flow rate, plus an electronic flow meter measuring it
Topics covered	Static and dynamic systems; fluid transport and liquid-level control problems; suits other strategies such as fuzzy logic
Product code	SLE/ETC/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Coupled Tanks Apparatus Used For?

The basic control problem is to regulate the liquid level in one of the tanks by varying the speed of the circulating pump. With the connecting valve closed, students work with a single tank — a simple first-order process — and later open the valve to couple the tanks, creating an interacting two-tank system that is noticeably harder to control.

Having both a rotameter and an electronic flow meter lets learners check the pump's delivery by eye while also measuring it electrically, and the tank scales let them confirm the level sensors before relying on them. Beyond PID practicals, the apparatus suits modelling, system identification and advanced approaches such as fuzzy logic, making it a flexible piece of lab equipment for technical institutes and universities.

OEM Manufacturer

Jain Scientific Equipments Private Limited trades as ScienceLab and is the original equipment manufacturer of the Coupled Tanks Apparatus. Each unit is produced at the company's own licens ions for a has more

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