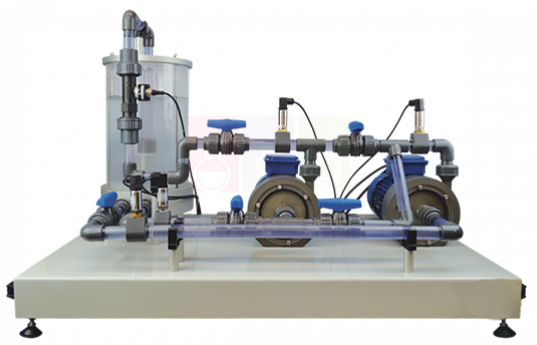
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Product Name :

Variable Speed Series And Parallel Pumps

Product Code :

SLE/EFM/29



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Description :

Variable Speed Series And Parallel Pumps (Product Code: SLE/EFM/29) is a bench-top testset for studying how centrifugal pumps perform on their own and when two are combined inseries or in parallel. It pairs one variable speed and one fixed speed centrifugal pump, eachdriven independently by its own bearing-mounted motor, drawing from a clear acrylic reservoir.The set is built for fluid machinery and hydraulics laboratories in engineering and diplomainstitutions by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a technicaleducational equipment manufacturer.

Key Details

Parameter	Detail
Type	Bench-top centrifugal pump test set
Pumps	One variable speed centrifugal pump and one fixed speed centrifugal pump
Drive	Two bearing-mounted motors, each driving one pump independently
Operating modes	Single pump, two pumps in series, two pumps in parallel
Water supply	Clear acrylic reservoir; water returns to it for re-use, keeping water use to a minimum
Circuit	Water passes through a series of valves to a flow and temperature measurement device
Operating conditions	Set with adjustable inlet and delivery valves

Typical Use

A standard sequence begins with one pump running alone. Students close the delivery valve in steps, recording flow at each setting to build the pump's characteristic, then repeat at different speeds on the variable speed pump to see how the curve shifts. Next they valve the two pumps into series, which adds head for the same flow, and then into parallel, which adds flow at a similar head. Plotting all the curves on one chart makes the difference between the two arrangements clear and shows why the choice matters when matching pumps to a real piping system.

Because one pump is variable speed and the other fixed, the set also lets students explore what happens when unequal pumps share a duty, a situation common in building services and water supply. The inlet valves can be throttled to create more demanding suction conditions. With a closed water circuit and a transparent reservoir, it is a tidy, visible choice of engineering lab equipment in India for colleges, polytechnics and TVET centres.

Manufacturer

The pump set is produced under the ScienceLab name by **Jain Scientific Equipments Private Limited**, whose operations are in Ambala, Haryana, India. Our company profile describes the wider range of engineering and science teaching equipment we make.

Rela

Appa