

## Description

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### Variable Speed Series and Parallel Pumps

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A compact, bench-top and fully self-contained centrifugal pump test set, that allows students to find the characteristics of centrifugal pumps, working alone or in series or parallel. The water travels through a series of valves to be delivered to a flow and temperature measurement device. The water then returns to the reservoir for re-use, keeping water use to a minimum. The apparatus comprises one variable speed centrifugal pump and one fixed speed centrifugal pump, together with two bearing-mounted motors driving each pump independently. The pumps draw water from the clear acrylic reservoir. The adjustable inlet and delivery valves allow students to create different operating conditions. There are pressure transducers fitted in the intake and delivery pipes for the direct measurement and visible display of the inlet and outlet pressures of the pumps on the control box.

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