



DESCRIPTION:

- In complex systems, pumps can be connected in series or in parallel. In series operation the heads are added together and in parallel operation, the flow rates of the pumps are added. Series and parallel configuration of pumps behave similar to series and parallel configuration of electric resistances in electric circuits. The pump correlates with the electric resistance, the flow correlates with the electric current and the head with the voltage.
- With the present unit pumps are studied individually, in series and in parallel configuration.
- The experimental unit contains two identical variable speed centrifugal pumps and an intake tank with overflow. The overflow ensures a constant suction head in the tank, regardless of the water supply. Ball valves in the pipes allow easy switching between series and parallel operation.
- Pressures at inlet and outlet of the two pumps are displayed on manometers. The pumps can be operated in conjunction as well as individually as well as speed of the both the pumps can be controlled individually.
- The experimental unit is positioned easily and securely on the work surface of the base module. The water is supplied and the flow rate measured by base module.

EXPERIMENTATION :

- A single centrifugal pump at a single speed
- Two similar pumps operating in parallel configuration at the same speed
- Two similar pumps operating in series configuration at the same speed
- Two similar pumps operating in parallel configuration at a variable speed
- Two similar pumps operating in series configuration at a variable speed

Technical details:

- 2x centrifugal pump
- Power consumption: 370W

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Order Code : 25269632.4.5
CENTRIFUGAL PUMP TEST RIG
(SERIES AND PARALLEL PUMPS)

- Tank: 13L
- Pipes and pipe connections: PVC
- Measuring ranges
- pressure (inlet): 2x -1...2.1 bar
- Pressure (outlet): 3x 0...2.1 bar



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