

Product Name : Recycle Loops	Product Code : NLAB-TECHNICALAB23008
Description : Recycle Loops	
Technical Specification : Recycle Loops is a benchtop unit having a vacuum formed ABS plastic plinth with integral electrical console on to which is mounted a through pipe with a recycle loop which incorporates a circulating pump and heater. A pressure regulator with filter at the inlet to the apparatus minimises the effect of fluctuations in the cold water supply pressure. Water in the recycle loop is heated by a 2 kW electric heater with over-temperature protection. Flow in the loop can be varied from 0 (no recycle) to 3 litres/ min. The through flow of water can be varied from 0 to 1.5 litres/min. Temperatures at the entry to the system, at the exit from the system and inside the recycle loop are measured using type K thermo couples. Flow rates at corresponding locations are measured using turbine type flow sensors. A reservoir with self-sealing fittings allows the volume of the loop to be changed. All electrical circuits are protected by appropriate protection devices. The console incorporates a digital meter with selector switch, which displays the temperatures and flow rates measured. Corresponding signals are routed to an I/O port for connection to a PC. An optional interface device and educational software package is available. A comprehensive instruction manual is included with a range of fully detailed Laboratory Teaching Exercises. The small-scale of the loop ensures that responses can be fully evaluated in a normal laboratory session Water is used as the working fluid for safety and ease of use All electrical sensors can be logged using a PC (optional teaching software available)	

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