

**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)

## Naugralabequipments

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