

**Product Name :**  
Heat Transfer in a Tubular Heat Exchanger Trainer

**Product Code :**  
NLAB-MECHANICALAB240038



**Description :**

Heat Transfer in a Tubular Heat Exchanger Trainer

**Technical Specification :**

Heat transfer in a tubular heat exchanger trainer

Hot water circuit with tank, heater, temperature controller and pump

Cold water circuit from laboratory supply

Temperature controller controls the water inlet temperature for the hot water circuit

Parallel flow and counter flow operation adjustable

Flow rates adjustable using valves

7 temperature sensors with digital display and selector for temperature measuring points

Process schematic

Technical Data of Heat Transfer in a Tubular Heat Exchanger Trainer

Tubes made of Cu, conductivity: 384W/mK

Length: 600mm

Mean transfer area: 0,013m<sup>2</sup>

Tube diameters (t=1mm): D=8mm, D=15mm

Pump

Max. flow rate: 4m<sup>3</sup>/h

Max. head: 4m

Power consumption: 70W

Heater: 3kW, with thermal cut-out

Tank: 6,5L

Measuring Ranges

Flow meter: 20...250L/h

Temperature: 0...100°C

## Naugralabequipments

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