Product name:	Product code:
Flow Through Helical Coil	Transfer0019



Description

Flow Through Helical Coil

Technical specification

Flow Through Helical Coil

Helical coils are used for heating or cooling in process tanks. When a fluid flow through a curved tube, centrifugal force acting upon the various elements of fluid moving with different velocities causes secondary circulation. Secondary flow results in higher heat transfer characteristics. Further secondary flow stabilizes the laminar flow leading of a higher critical Reynolds number for transition from laminar to turbulent flow.

Experiment :

- To determine the critical Reynolds number of a fluid flowing through the coil.
- To determine the friction factor for flow of water through helical coil
- To compare the pressure drop in helical coil with that in a straight pipe of same length, inside diameter and surface roughness

Utilities Required:

- Electricity 500 watts, 220 V, 1 phase
- Floor area 1 m x 2 m

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