

## Heat Transfer In Agitated Vessel



**Product Categories:** [Engineering Equipment](#), [Heat Transfer Lab](#)

**Product Page:** <https://www.labappara.com/product/heat-transfer-agitated-vessel/>

### Product Description

#### Heat Transfer In Agitated Vessel

Heat is to be added or extracted to control the process. The addition and removal of heat is done by passing steam or water in a jacket fitted to the outside of the vessel or passing steam or cold water in helical coil inside the vessel. For effective heat transfer and even distribution of heat, the liquid inside is continuously agitated. The present set-up offers us a comparative study of Jacket & Helical coil, which can be operated simultaneously. It is a stainless steel jacketed vessel with helical coil of copper is fitted inside.

**Technical Specifications:** Jacket: Insulated with ceramic wool  
Cl added with aluminum foil.

Helical Coil: Material Copper, OD 16mm, ID 13mm.

Agitator: Stainless steel Impeller fitted on a shaft  
coupled to a variable speed motor and Drive.

Condensate Measurement: Measuring Cylinder & Stopwatch

Steam Generator: Made of stainless steel fitted with level

The whole set-up is ingeniously designed and schematically arranged on a powder-coated rigid structure

## **Specification:**

Electricity Supply: 1 Phase, 220 V AC, 5 kW

Water Flow Measurement: Rotameter

Water supply: 20 lit/min

Floor area: 1.5m x 1.5m.

System: Steam to Water

Vessel Material: stainless steel fitted with 4 baffles

Depth: 350 mm (Approx.)

Diameter: 250

Jacket Width: 25 mm.

Helical Coil Material: Copper

## **Control Panel:**

Digital Temp. Controller: 0-199.9°C,

Digital Temp. Indicator: 0-199.9°C, with multi-channel switch

Temperature Sensors: RTD PT-100 type.

Standard make On/Off switch, Mains Indicator