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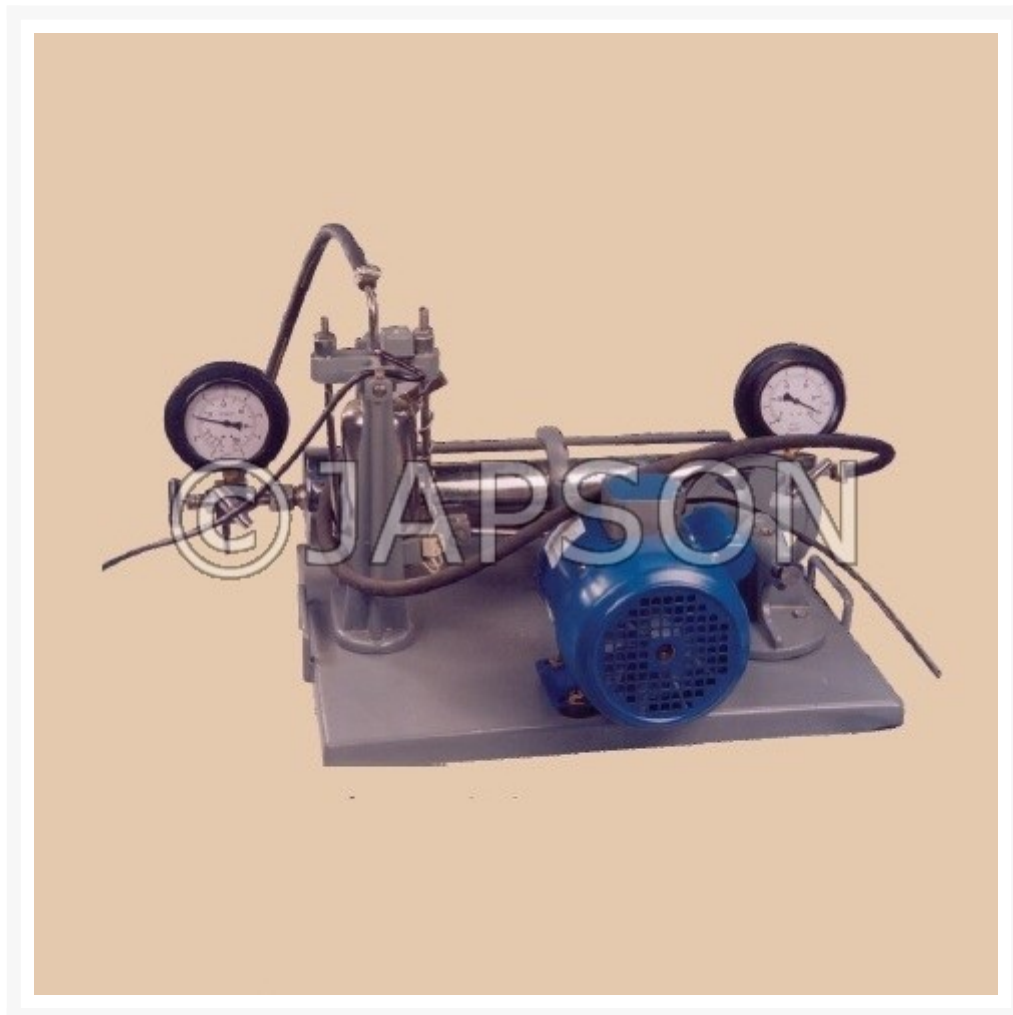
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# Catalytic Hydrogenation Apparatus

## Product Image

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## Description

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A compact unit for chemical reactions which require the agitation of solution in the presence of a gas under pressure up to 60 lbs per square inch. It is recommended for the

numerous reduction and condensations which arise in the synthesis and investigation of organic compounds which are accomplished conveniently by treatment with hydrogen in the presence of a suitable catalyst.

**Description:** The apparatus consists of a shaker mechanism with 1/4 H.P. AC electric motor (totally enclosed fan cooled type), glass reaction bottle capacity 500 ml., bottle clamp, perforated steel gaurd, gas supply tank of stainless steel 4 litres and pressure gauge range 0 to 100 lbs per square inch. The reaction bottle of borosilicate glass and supply tank are individually tested to 100 125 lbs per square inch pressure. It can also accommodate glass reaction bottle of 250 ml. capacity. Complete with tank inlet valve assembly, three way valve assembly for use between tank and reaction bottle, 6" pressure tubing for connecting gas supply tank to hydrogen cylinder, 15" of pressure tubing for connecting reaction bottle to gas supply tank, tubing clamps, cord and plug. All parts of apparatus are powder coated. The compound gauge (pressure-cum-vacuum gauge) fitted over 3-way valve assembly connecting tank to reaction bottle indicates vacuum in the initial evacuation bottle before reaction and pressure at the time of reaction. The pressure measured by means of the gauge attached is a quick and accurate method of measuring the rate of reaction and also the extent to which the reaction in the bottle has proceeded. The apparatus is fitted on a heavy M.S. base plate, powder coated with metallic blue finish and other parts are chrome plated.

### **Optional Accessories for Catalytic Hydrogenation Apparatus :**

**Electric Heater :** For use when reactions at elevated temperatures are required. Temperature up to 100°C can be produced along with the shaking action.

**Temperature Control Unit :** For use with the heater operated by a knob, continuously variable.

Tested glass reaction bottle capacity 250 ml.

**Alluminium Block :** For holding 250 ml. reaction bottle in shaking mechanism.

**Tested stainless steel** reaction bottle capacity 500 ml.

**Tested stainless steel** reaction bottle capacity 250 ml.

Replacement parts for Catalytic Hydrogenation Apparatus:

Glass reaction bottle capacity 500 ml.

V-belt for shaking mechanism.

Silicone bush for 500 ml. bottle.

Silicone bush for 250 ml. bottle.

## Disclaimer

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The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.