



**PT-145  
CATALYTIC HYDROGENATION**

## PT-145, PT-150 & PT-155

Catalytic hydrogenation apparatus is used for:

- Chemical Synthesis: Catalyzing the addition of hydrogen to unsaturated compounds to produce saturated compounds.
- Industrial Processes: Manufacturing various chemicals and pharmaceuticals requiring hydrogenation reactions.
- Food Industry: Hydrogenating oils and fats to alter their physical properties, such as reducing unsaturation.
- Research and Development: Investigating new catalysts and reaction conditions for efficient hydrogenation processes.
- Fine Chemicals: Producing specialty chemicals and intermediates through selective hydrogenation reactions

## PT-145, 150, 155 CATALYTIC HYDROGENATION

### LOW PRESSURE SHAKER TYPE (HSN-90279020)

MODEL	PT-145	PT-150	PT-155
Rate	75950/-	88950/-	96950/-
Motor unit	H.P. 0.25 1440 R.P.M 230 VOLTS	H.P. 0.25 1440 R.P.M 230 VOLTS	H.P. 0.25 1440 R.P.M 230 VOLTS
Reaction bottle material	SS 316 grade	SS 316 grade	SS 316 grade
Reaction bottle capacity	500 ml	1000 ml	2000 ml
Supply tank material	SS 316 grade	SS 316 grade	SS 316 grade
Supply tank capacity	4 litres	5 litres	5 litres
Pressure gauge	0 to 7 kg/cm <sup>2</sup>	0 to 7 kg/cm <sup>2</sup>	0 to 7 kg/cm <sup>2</sup>
Body	Mild steel powder coated	Mild steel powder coated	Mild steel powder coated
Dimensions (L×W×H)	30 X 25 X 17 inch	34 X 27 X 18 inch	34 X 27 X 20 inch
Weight	60 Kg	70 Kg	75 Kg
Power Supply	230V, 50Hz, 1 phase	230V, 50Hz, 1 phase	230V, 50Hz, 1 phase
Working temperature	Ambient to 100°C	Ambient to 100°C	Ambient to 100°C
Gas inlet assembly	2 way	2 way	2 way
Gas connecting assembly to reaction vessel	3 way	3 way	3 way

### SPARE PARTS FOR CATALYTIC HYDROGENATION PT-156

MODEL NO.	ITEM	DESCRIPTION	RATE
PT-156/05	Electric heater	For heating upto 100 °C	2750/-
PT-156/10	Temperature control unit	Heater operated by a knob	2975/-
PT-156/15	Aluminium block	For holding 250 ml reaction bottle in place of 500 ml bottle (For PT-145)	600/-
PT-156/20	Aluminium block	For holding 500 ml reaction bottle in place of 1000 ml bottle (For PT-150)	800/-
PT-156/25	Aluminium block	For holding 1000 ml reaction bottle in place of 2000 ml bottle (For PT-155)	1000/-
PT-156/30	Reaction bottle	SS 316 , 250 ml, (Pressure tested)	6950/-
PT-156/35	Reaction bottle	SS 316 , 500 ml, (Pressure tested)	7950/-
PT-156/40	Reaction bottle	SS 316 , 1000 ml, (Pressure tested)	9950/-
PT-156/45	Reaction bottle	SS 316 , 2000 ml, (Pressure tested)	12500/-
PT-156/50	V Belt	High strength rubber belt	300/-
PT-156/55	Silicon Bush	For 250/500 ml bottle	950/-
PT-156/60	Silicon Bush	For 1000/2000 ml bottle	1150/-