

# Laboratory Instruments

With more than 25 years of experience.



For any queries regarding Laboratory Instruments call us on

**+91 9804101236/9432585040**

or mail us at [allianceteck\\_kol@yahoo.co.in](mailto:allianceteck_kol@yahoo.co.in)

visit us at [www.allianceteck.com](http://www.allianceteck.com)



## Hot Air Oven

Temperature Range: Ambient +5°C – 250°C

Control: PID

Volume: 100-300liter

Forced air by fan

Digital timer with buzzer alarm



## Laboratory Water Bath

Temperature Range: Ambient +5°C – 100°C

Control Type: PID control

Capacity: 15 Liters - 135 Liters

Low liquid level protection

Indication: Mains Line and load Indicator



## Muffle Furnace

Temperature Range: Ambient +50°C – 1200°C

Control Type: PID control

Electric leakage breaker

Provision to input external thermometer  
at door wall

Indication: Mains Line and load Indicator

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## Copper/Silver Strip Corrosion Bath

As per ASTM D-130

Temperature Range: Ambient +5°C – 100/150°C

Control Type: PID control

Capacity: 18 Liters (For 2 sample) 35 Liters  
(For 4/6 samples)

Inbuilt motor stirrer for bath liquid stirring



## Kinematic Viscosity Bath

As per ASTM D-445

Temperature Range: Ambient+5°C to 150°C

Control Type: PID control

6 Numbers of tubes can be accommodated at the  
time of test

LED Light at the back of the bath for perfect viewing



## Flashpoint Tester

As per ASTM D-93, ASTM D-92, IP170

Digital Temperature Indicator with 0.1°C resolution

Electrically heated with voltage variac Control

LED Indicator for power

Cup with shutter arrangement. Reducing Socket  
with cock & "Y" for LPG gas test flame

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## Circulating Water Chiller

Temperature: up to  $-35^{\circ}\text{C}$   
Control Type: PID  
Volume: 5 L  
Circulation: Thru pump  
Power: 1000W



## Rolling Thin Film Oven

As per ASTM D-2872  
Temperature Range: Ambient  $+5^{\circ}\text{C}$  –  $200^{\circ}\text{C}$   
Control Type: PID control  
Over temperature protection Electric leakage breaker  
Flow-Meter: airflow at a rate of 4000 ml/min



## Ductility Test Apparatus

Compliance ASTM D-113  
Temperature Ambient  $+5^{\circ}\text{C}$  to  $60^{\circ}\text{C}$   
Digital Temperature Controller  
10Lit Bath volume

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## Oxidation Stability Bath

As per ASTM D-943/D-2274/D- 4310/D-7462  
Temperature range ambient : +5 °C to 120 °C  
Control type: PID  
Liquid stirring with motorised stirrer  
Specific Glassware Assembly



## Reid Vapor Pressure Bath

As per ASTM D-323 and IP-69  
Temperature PID controller with 0.1°C resolution  
Temperature range: ambient +5 to 90°C  
Liquid stirring with motorised stirrer  
Bath volume: 80L



## Pour Point Bath

Compliance IS-1448 IP-10 / IP-15/ASTM D-97  
Temperature Ambient to 0,-17,-40,-51°C(4 chamber)  
Ambient to 0,-17,-40°C (3 chamber)  
Digital Temperature Controller  
For 3 bath 24"X 20" X 40" (L X B X H) ± 2"

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## Redwood Viscosity Meter

As per IP-70

Temperature Range: Ambient to  $150 \pm 1^\circ\text{C}$

Control Type: PID control

Inbuilt motor stirrer for bath liquid stirring



## Ring and Ball Apparatus

As per IS-1205 & IP-58

Electrically heated with energy regulator control

Motorised stirrer with speed control



## Distillation Apparatus

As per IP-123 & ASTM D-86

Heater temperature range ambient to  $400^\circ\text{C}$

Bath temperature range  $0^\circ\text{C}$  to  $60^\circ\text{C}$

Control type (water bath) : PID

Control type (Heater unit) : Variac

Power: 1500W

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## Bomb Calori Meter

Combustion Bomb: Made of stainless steel

Capacity 25ml to 300ml

Calorimeter Vessel: Made of stainless steel

Motorised Stirrer: Electrically motorised stirrer with variable speed control



## Existent Gum Bath

As per ASTM D-381, IP-131, IP-540

Digital temperature control (PID)

Over-temperature cut-out

Suitable for use with steam supply in conformity with the relevant test



## Cryo Bath

As per ASTM D-721

Temperature Range: Ambient °C to  $-40 \pm 1^\circ\text{C}$

Control Type: PID control

Inbuilt motor stirrer for bath liquid stirring

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## Grease Worker

As per ASTM D-217 ASTM D-7342 IP-50

Speed: 60 strokes per minute  $\pm 10$

No of grease pots: 02

Power: 600 W



## Penetrometer

As per IP-50 and ASTM D-217

Penetration range : 0 to 50mm

Timer : 1 to 5Sec

Aluminum casting Triangular shaped base

Automatic Plunger Release and retention

Digital display in millimeter



## Foaming Characteristics Bath

As per IP-146 & ASTM D-892

Single test at 93.5C and single test 24C

One bath will be maintained at  $24 + 0.5C$  and

other bath maintained at  $93.5 + 0.5C$

Two number heat resistant glass cylinder graduated up to 1000ml

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