

Glass Lab Reactor with Distillation Setup

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Lab Motor

Digitalized motor from Reputed manufacturer (IKA/VELP/Heidolph) with RPM locking mechanism

Additional Funnel

250 to 500 mL graduated funnel provided with pressure equalizing line (Ideal for vacuum applications)



Lab Pressure Safety Valve

Prevents accidents & damages when reactor is used under pressure condition

Glass Cover

Provision for 6 Nozzle connection for multi-purpose applications and Rodaviss Joints, as per requirement

Mounting Clamp

Self-centering mechanism that helps with quick tool-free vessel replacement

Utility Hose

Allow thermostat to detach easily. Quick coupling also provided

Individual Manifolds

Stainless Steel, Easy to connect & drain

Tripod Stand

Compact bench top structure with stainless steel frame

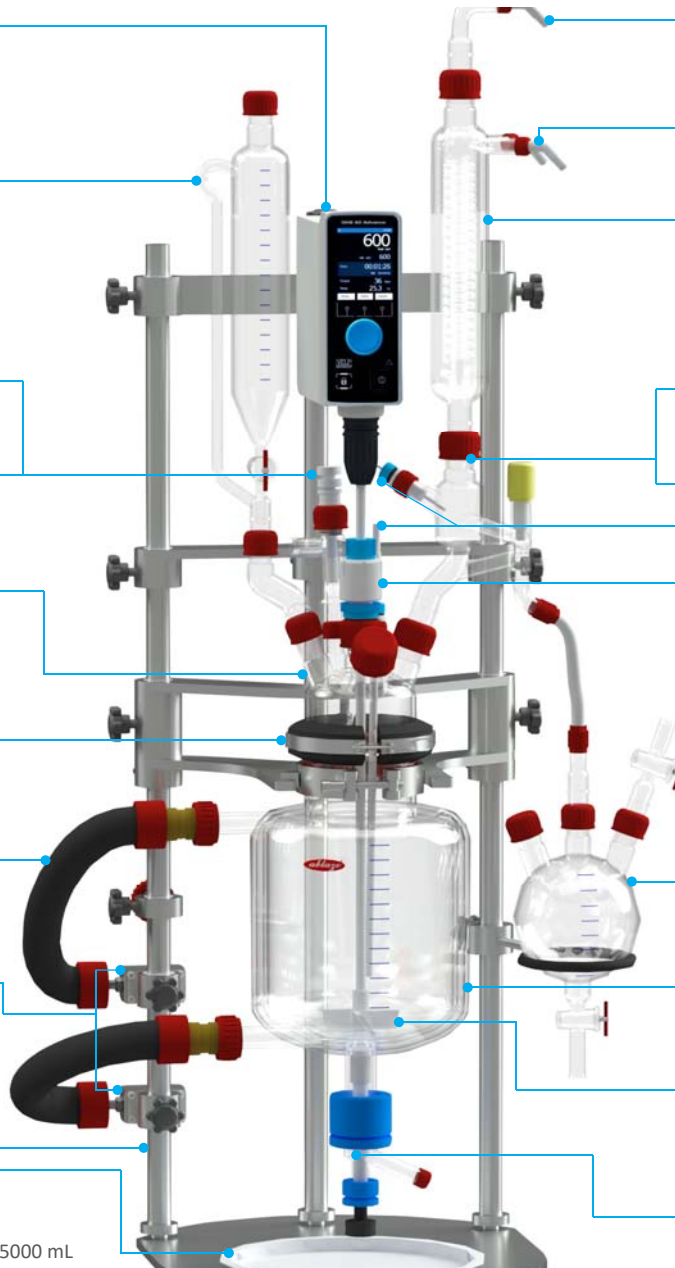
Spill Collection Tray

Made from Polypropylene

Reactor Capacity : 250 mL to 5000 mL

Opera

Design Temperature : - 70 to + 200 °C



Vacuum Pump Connection

Compatible with any lab type vacuum pump with PTFE diaphragm

Utility Connection

Provision of a hose connector for cold/chilled water circulation

Condenser

Jacketed coil type condenser with maximum surface area to improve heat exchange

Lab Reflux Divider

To Study reflux ratio for desired product. Can work as separator for distillate

Temperature Sensor

PTFE lined RTD Sensor with LEMO Connector can be connected to TCU for temperature control

Agitator Coupling

PTFE Seal coupling with a mechanical/magnetic seal. Ensure zero vibration and leak proof Stirring

Receiver Vessels

From 500 to 2000 mL, used to collect the distillate

Reaction Vessel

Jacketed and triple wall (vacuum jacketed) options are available

Stirrer

Anchor, Retreat curve and propeller type with PTFE lining. Custom design also available

Zero Hold-up Valve

Made from PTFE or PEEK for zero retention in the vessel & polymer



Ika

Heidolph

Velp

Lab Motors

Compatible with all leading brands of Overhead Stirrer



Retreat Curve

Anchor

Propeller

Stirrers

Choose from a variety PTFE Lined Stirrer



Double Wall Reactor

Triple Wall Reactor

Nutsche Filter Reactor

Reaction Vessels

Adaptable and simple to replace with multiple size vessels 250 mL to 5000 mL



Huber



Julabo



Lauda

Heating - Chilling Systems

With a temperature range of (-40° to +250° C), thermocirculators increase the heat transfer rate. Huber, Julabo, Lauda and other top manufacture are known for their responsive thermodynamic controllability, exceptionally rapid and steady heat transmission rate and other key features

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High Pressure Glass Reactor 12 bar

- Borosilicate Glass 3.3 Corrosion Resistance

- Visual Process Monitoring

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High Pressure Glass Reactor

The multipurpose high pressure reactor system is designed for high pressure applications.

The glass reactors provide excellent acid resistance. The housing's polycarbonate door also allows the use of glass pressure reactors with pressures up to 12 bar in a safe and visible operation.



Compact Design

Magnetic OHS

0.5 - 2 Ltr
12 bar g

Visual process

Safety features

Temp - 20
to +200 °C

Easy to Handle

Zero Hold Valve

Sturdy Structure

Ablaze successfully designed and produced High Pressure Glass Reactors for use on a laboratory scale. Scale-up experiments also involve the application of high pressure, and this is now possible with the other additional benefits of a glass reactor. High-pressure glass reactors are built with corrosion-resistant materials that ensure high resistance to acids while allowing reactions under pressure. The magnetic stirrer drive ensures adequate mixing and stirring of the process media, as well as excellent heat transfer.

Characteristics

Reactor Volume: 0.5 – 2.0 liter

Pressure: -1 (FV) to + 6 (12) bar

Temperature: – 20 °C to +200 °C

Reactor MoC: Borosilicate glass 3.3

Salient Features

- Modular and interchangeable construction.
- Multi-port Lid for maximum customization.
- RPM up to 1200, making it suitable for highly viscous reactions.
- Compact Benchtop design.
- Zero hold-ups Flush bottom valve.
- Agitator PTFE/Stainless Steel/Hastelloy.
- Jacketed and Triple-Walled Options.
- Including with safety valve and pressure gauge.
- Visual evaluation of the process with glass pressure vessel.
- 6 bar and 12 bar Versions.
- Operation Jacket Pressure: up to +0.5 bar g.
- Support Structure cover with Poly-carbonate sheet.



Interchangeable Glass Vessel

