



The Transparent Specialist



Lic No. QAC/910/146

Lab Glass Reactor



www.goelscientific.com

Lab Glass Reactor

One of the prime endeavor and proud moment for “**GOEL Scientific Glass Works Ltd.**” to have designed lab glass reactor for the convenience of chemical scientists, R&D and Lab fraternity, who make wonderful use of standard glass equipment to accomplish desired results and innovations.

“**Lab Glass Reactor**” has become very convenient, essential, and integral part of chemical processing units to accomplish desired results which is a standard equipment **Make in India**.

Glass being an inert material is extremely useful for scientific fraternity with additional qualities of transparency, chemical resistance, and thermal stability.

Significant Features

Convenient Interchangeability - The lab glass reactor has a tool-free exchange system with a hose coupling quick-release reactor clamp. It also has a self-aligning stirrer coupling.

Aesthetic Design

Lab Glass Reactor is most suitable for every chemical process unit. It is also ideal for all vacuum conditions due to its design and construction in **SCHOTT Duran, GmbH** glass with high quality material at a reasonable price.

The tripple stand support with stainless steel rods enhances the stability of the lab glass reactor.

Suitability

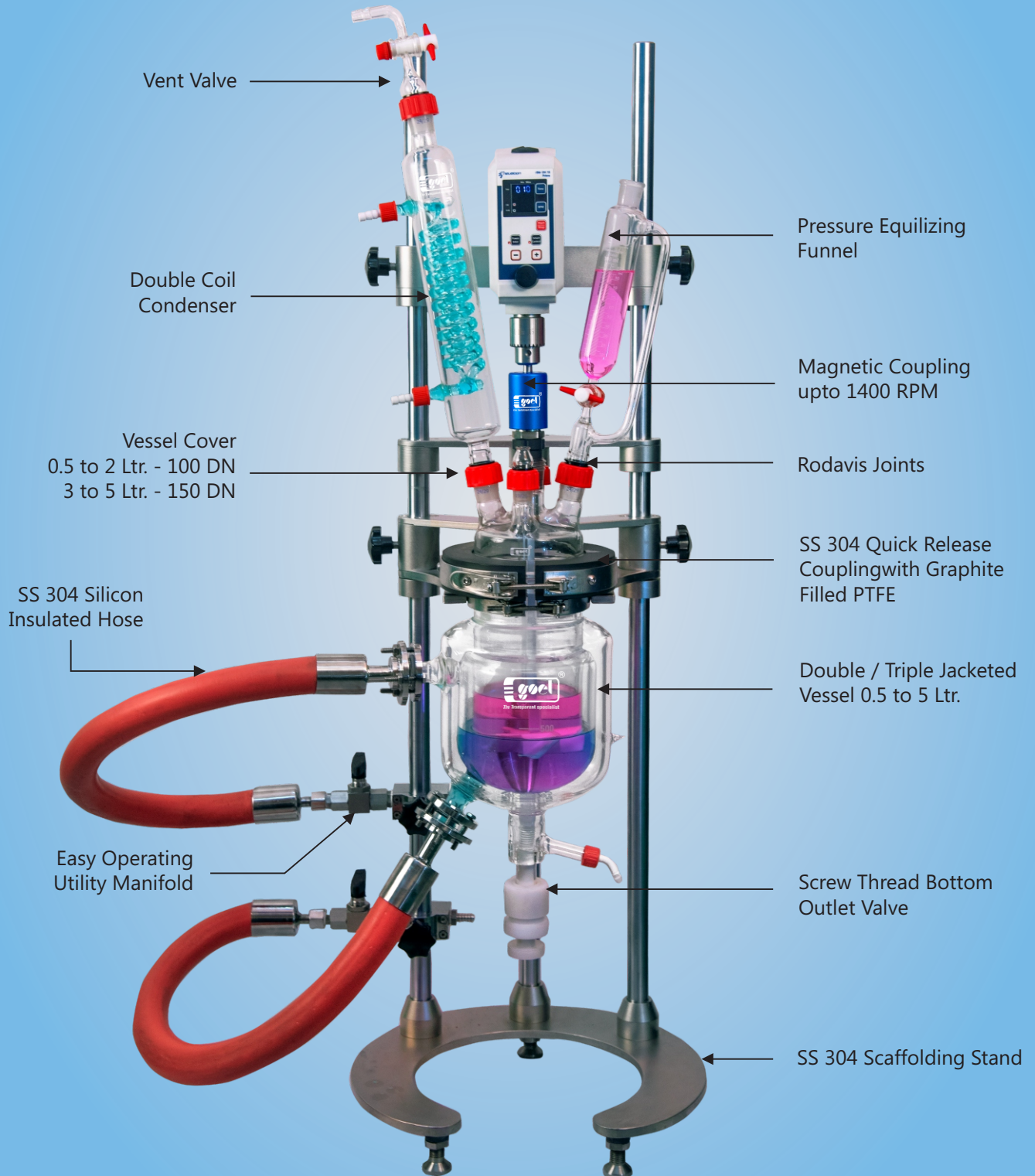
Lab glass reactor is most suitable requirement for every chemical process unit.

It is also ideal for all vacuum conditions due to its versatile design and quality material.

Why do we use 'SCHOTT Duran Glass'?

SCHOTT Duran meets all significant standards for technical glass such as **ISO 3585:1998&ASTM E438** Type 1. It's a renowned glass for use especially in scientific laboratories, architecture, and R&D sector due to its versatility, resistance, strength and availability in all dimensions for worldwide applications.

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Technical Specifications & Components of Lab Glass reactor

- 0.5 Ltr to 5 Ltr Double / Triple Wall Jacketed reactor with 100 DN / 150 DN Duran glass flange with groove**
- Made from Schott Duran Glass tubing

Primary Reactor - For Reaction

Double Wall Reactor - for Utility Circulation (-60°C to 200°C)

Tripple Wall Reactor - for Full Vacuum sealed Jacket to prevent energy loss & to maintain transparency during condensation at -20°C.



- Fused type bottom outlet valve with Screw thread operating**

1. Easy to open to clean
2. Minimum dead Volume Valve
3. Contact parts PTFE

- 100 DN/150 DN Duran Glass Flange cover with DURAN® RODAVISS® Joints - Made from Schott Duran Glass tubing**



- 100 DN/150 DN "O" Ring Viton / PTFE/FFKM (Perfluoro elastomer)**



- SS304 Quick release heavy duty coupling with Graphite Filled Teflon material**

1. High compressive strength
2. Improved wear resistance under load & permanent deformation
3. Better thermal / electrical conductivity.
4. Good chemical resistance
5. Excellent frictional properties.

- SS Magnetic Drive for Glass reactor**

Max. Working Pressure-Full vacuum

Max. Working Temp. -60°C to 200°C

"O" ring- Viton (Top) & Bottom Kalrez"O" ring

M.O.C- Carbon filled Teflon (CFT) & SS-316 with bottom Hast C adapter

Rotation - Clockwise direction

Max RPM-0-1450



7. SS316 with PTFE Lined stirrer 10 mm Rod



8. Pressure Equalizing funnel with DURAN® RODAVISS® Joints

9. High Efficiency 250 mm Long Double coil Condenser with DURAN® RODAVISS® Joints

10. Unique Support system SS304 Scaffolding stand with Bakelite

Knob with SS304 screw

1. Medical Grade Bakelite
2. Smooth & Glossy Finish
3. Quick opening & easy lifting
4. Universal motor Mount
5. Heavy duty SS304 Base



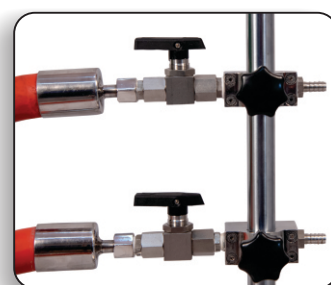
11. Over Head Stirrer Drive

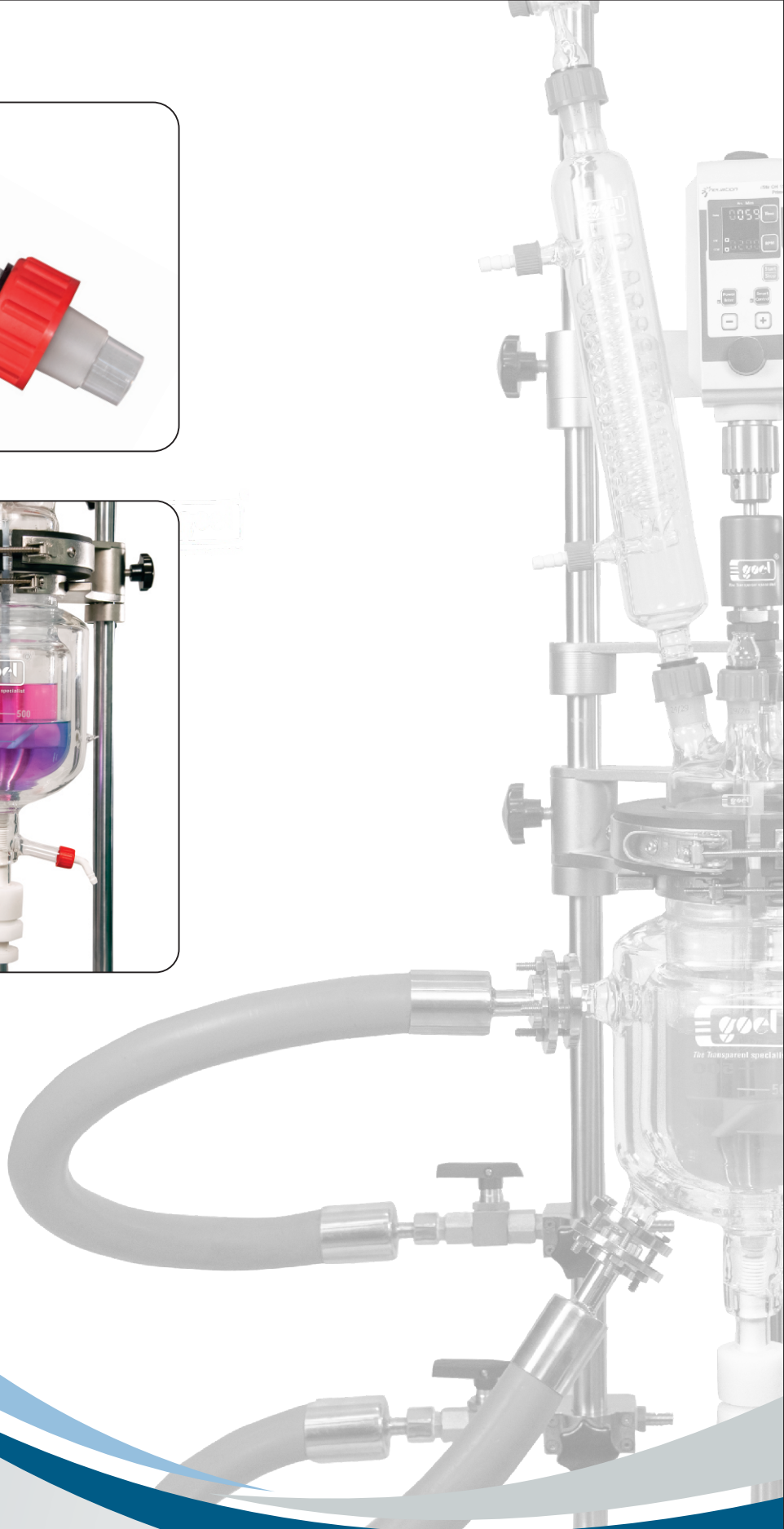
1. RPM 50 to 1000
2. Motor Type - Brushless Dc
3. Torque-15 Ncm
4. Viscosity - 8000mPas
5. timer -1 min to 99 Hr 59 min & infinity
6. Direction of rotation : Reversible CW/CCW

12. Digital Temperature Indicator PT100 PTFE Coated sensor (-60 to 300°C)

13. SS304 Insulated hose with Manifold Connection System with flexible movement

3/8" X 750mm with Flange Connection with Silicon Insulation / Nitrile Insulation





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