

Engineering strengths

Advantages

- Omega Gas-Induction Reactor has a highly efficient design, which leads to the following advantages:
- Vigorous Gas Liquid mixing
- Through suspension of solid components (eg. Catalysts)
- Large gas-liquid interfacial areas. (Typical, interface area is 100 to 300 m sq. per m cube of operating volume)
- Enhanced Gas-Liquid and Liquid Mass Transfer rates

Engineering Strength

- Reactor vessels are designed and manufactured as per International Standards such as ASME, BS, DIN, as well as IS Codes,
- Using computer-aided stress analysis and drafting techniques. Sealing at shaft ingress points is by means of Double Mechanical Seals, which forestall gas leakage in the unlikely event of failure of the seal coolant pressure.
- Seal temperatures are maintained at safe levels by means of forced Lubrication or alternatively, by Thermosyphon cooling systems, with pressure balancing system, if required.
- All manufacturing processes are carried out under the stage wise inspection, and stringent inspection and testing of Raw materials and Incoming components.

Omega-Kemix Pvt. Ltd

Estd. : 1985

Omega-Kemix is engaged in Design, Manufacturing and Installation of wide range of Gas-Induction Reactors, with capacities upto 20,000 Litres.

Products

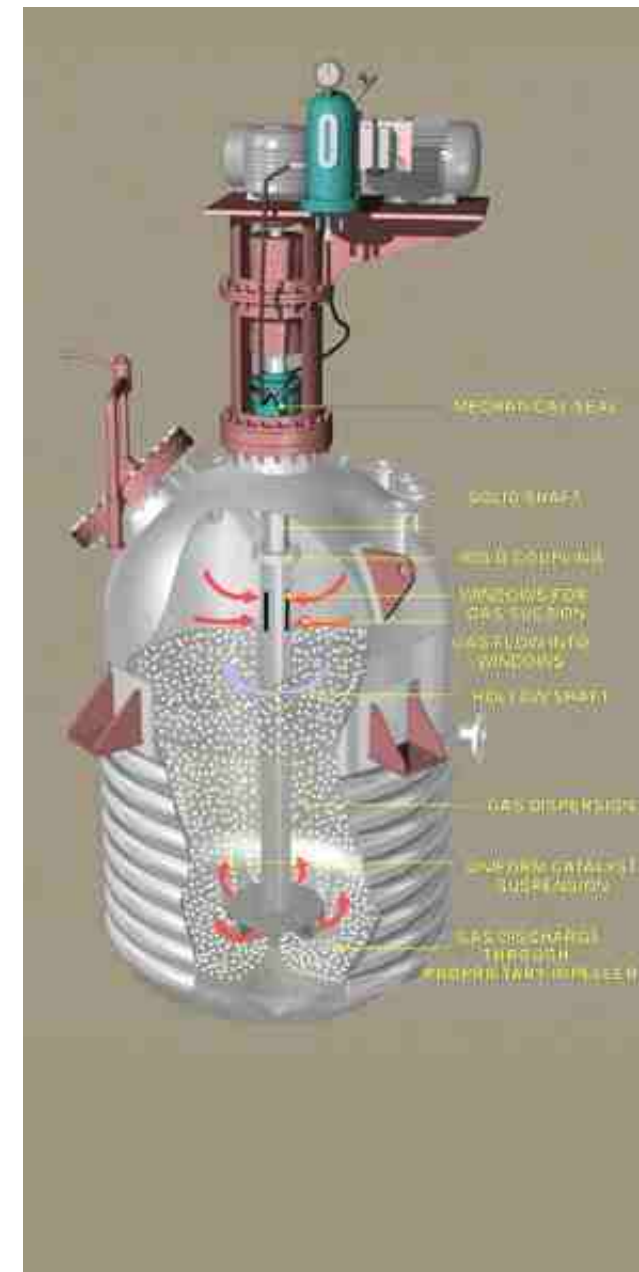
Gas Induction Reactors

An Omega Kemix Gas-Induction Reactor offers a radical change from conventional approach. Instead of churning the liquid reaction mass, a hollow agitator pumps gases from the headspace to the lowest part of the Reactor vessel. A specially designed impeller vigorously disperses these gases into the reactor bottom, resulting in a mixture akin to a boiling liquid. Gas bubbles react with the liquid / slurry as they rise. Unreacted gases are re-induced into the liquid.

Applications

Catalytic hydrogenation
Gas-liquid reactions with suspended Solids
Gas-slurry reactions
Ozonisation / Oxidation
Amination / Aminolysis

Installed capacity of major products



Technology Export Development Organisation

A project of Confederation of Indian Industry (CII) & DSIR, Govt. of India

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Process plant & machinery solutions from India



Material Handled

SS-316, SS316L, 304, 304L, CS, Hastalloy

Registration with major consultants

Dalal Consultants and Engineers Pvt. Ltd.
Equipment Design & Engineers Pvt. Ltd.
Humpherys & Glasgow Consultants Pvt. Ltd.
ICB Ltd. Technimont
Kvarner Power Gas India Pvt. Ltd.

Major Customers

Cadila Healthcare Ltd.
Calyx Chemicals & Pharmaceuticals Pvt. Ltd.
Dr. Reddy's Laboratories Ltd.
Divis Laboratories Ltd.
Emcure Pharmaceuticals Ltd.
GlaxoSmithKline Pharmaceuticals Ltd.
Jubilant Organosys Ltd.
Lupin Laboratories Ltd.
Matrix Laboratories Ltd.
Orchid Chemicals & Pharmaceuticals Ltd.
Reliance Industries Ltd.
Ranbaxy Laboratories Ltd.
Sun Pharmaceuticals Industries Ltd.
Torrent Pharmaceuticals Ltd.
Unichem Laboratories Ltd.
Zydus Altana Ltd.
Max India Ltd.
Nicholas Piramal India Ltd.

Infrastructure

Manufacturing location in Pune
Omega-Kemix Pvt. Ltd Employs-Technical Manpower

Design

Latest design software for designing of complete Gas Induction reactors with Stress analysis software's.



Process plant & machinery solutions from India



Major Machinery

- High Frequency Unit For Plasma Cutting
- High Frequency Unit For Tig Welding
- Stationary Electrode Oven
- Drilling & Lathe Machines
- Electronic Torque Control Tube Expander
- Pillar Type Drilling Machine
- Straight & Angle Grinders
- 7" Sander
- Twin Speed Portable Drilling M/C

Financial

Year	Turnover (Rs. in Lacs)	Export (Rs. in Lacs)	R & D (Rs. in Lacs)
2002-03	1.84		
2003-04	2.99		
2004-05	3.84		

Technology Arrangements

Joint Venture
Manufacturing Licence
Marketing

Inspection and testing

- Hydrostatic Test Pump
- Material Identification Stamp
- Pressure Gauge
- Tachometer
- Db Meter

