

## Chemical Reactor

A chemical reactor is a vessel designed to facilitate chemical reaction among various raw chemicals, known as reactants. They are also used for other processes such as solids dissolution, product mixing, distillation, crystallization, liquid/liquid extraction and polymerization

**Types offered :** Jacketed vessel, limpet coil reactor, dimple type reactor and high pressure reactor or autoclave.

**Capacity Available :** 50 litres to 20,000 litres



## Sterilizer

An autoclave is a device used to sterilize equipment and supplies by subjecting them to high pressure saturated steam at 121 °C for around 15–20 minutes depending on the size of the load and the contents.

### Types Offered

Vertical Autoclaves, Horizontal Cylindrical Autoclaves & Horizontal Rectangular Autoclaves.

### Special Features :

- Heavy duty design. All stainless steel 304 / 316 / 316L CGMP or mild steel externals with stainless steel internals.
  - The equipment is low on operating cost and fast with autoclaving cycle and possesses steam jacket for uniform heat distribution.
  - Door Locking – Radial locking arrangement for sealing & achieving a leak proof condition.
  - Condensate Drainage - Cold water drainage system with steam traps.
  - Safe to use – Equipment is provided with double safety valve, steam releasing valve, pressure gauge for the pressure inside the chamber and one pressure gauge to show the pressure of outer chamber
  - Steam Exhaust is provided with timer from 1 to 60 minutes.
  - Available with PLC & HMI based operation – Recipe loading, data logging & printing facility, remote operation etc
  - Sterile air filter is available for vacuum break.
  - An optional SIP filter is also provided as per the requirements.
  - To prevent the cross-flow of air between the clean and unclean area, a contamination seal is provided.
  - To insert the temperature sensors, which support thermometric testing, validation ports are provided
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## Programs

- HPHV Cycle
  - Fast Exhaust Cycle
  - Slow Exhaust Cycle
  - Chamber Leak Test Cycle
  - Bowie Dick Test Cycle
  - AOP Cycle (For Liquid Solution Sealed in Ampoule & Vial)
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## Models Available:

50 litres to 2000 litres

