



India's Largest Autoclave for Airworthy Composites Processing

Industrial grade, High temperature (350°C) and High Pressure (15 barg) Autoclaves for Demanding Applications

- ❖ Simplicity
- ❖ Fail-safe & fault-tolerant
- ❖ Open communication system
- ❖ Easy Maintainability

AUTOCLAVE CHRONICLE of CSIR-NAL



MARK IV-2009
Working Space: 4.4m Dia x 9m Len.
Max. Temp. 250°C and pressure: 7 Barg



MARK III-2010
Working Space: 2m Dia x 4m Len.
Max. Temp. 350°C and pressure: 15 Barg



MARK II-1996
Working Space: 2.8 m Dia x 5.2 m Len
Max. Temp. 250°C ; Pressure: 7 barg



MARK I – 1986
Working Space: 1.8m Dia x 4m len;
Max. Temp. 200°C
Pressure: 7 barg



HAL 4mX8m – 2002
Working Space: 4m Dia x 8 m len;
Max. Temp. 300°C
Pressure: 10 barg



REAVES – 1999 (Revamped)
Working space: 4.5m x 3.5 m height;
Max. Temp: 200°C
Pressure: 5 Barg



BARON -2003 (Revamped)
Working Space: 1.5m Dia x 3.65 m len;
Max. Temp. 200°C
Pressure: 17 barg

Public-Private Partnership



- ❖ MoU with Unique Chemplant Equipments (UCE), Mumbai
- ❖ For manufacture and marketing aerospace class autoclaves
- ❖ A new era in the manufacturing of high end autoclaves in India,

Unique Chemplant Equipments

Harnessing Process Engineering Expertise Since 1981

- ❖ An end-to-end provider of world-class plants and coded process equipment
- ❖ UCE offers coded equipment conforming to ASME / TEMA / BS 5500 / API / E.E.U.A Handbook / EJMA standards.
- ❖ UCE offers Process Reaction Vessels, Dryers/Mixers & Specialized Plant Equipments, in addition to a variety of custom-designed chemical process equipment, specialized and proprietary products such as Rotary Vacuum Paddle Dryers, Ribbon Blender, Co-Axial Contra-Rotating Mixers and Silicon-Carbide Heat Exchangers etc.

