Autoclave (for Hydrothermal & Chemical Reaction)

Autoclaves stands for high pressure vessels with heat and pressure resistance functions that are applicable for industrial and scientific purpose in the fields of synthesis, decompositions and extractions which gives arise to chemical reactions.
Our autoclaves are designed and manufactured based on the ASME(American Society of Mechanical Engineers) pressure vessel code are widely used for various industry areas.

Features

- Manufactured based on ASME pressure vessel code
- Customized products depending on different specifications
- Excellent heat consistency
- Easy operation for operator
- Easy maintenance
- Non stirring / Stirring available

Application

- Polymerization
- Cement Curing Reaction
- Ultra high Pressure Reaction
- Hydrothermal Synthesis
- Catalyst Reaction
- Constant Temperature and Pressure Reaction
- Corrosion Reaction
- Rotational Combustion Reaction
- Oxidization Reaction
- Other Reactions Requiring High Pressure and Temperature Conditions

Production Equipment

R & D Equipment

R & D Equipment

Production Equipment

R & D Equipment

Specification

Type	Non Stirred Type		Stirred Type	
	R & D Equipment	Production Equipment	R & D Equipment	Production Equipment
Product				
Vessel	- Material : SUS316 - Max. Working : 5000psi@300℃ - Volume : ~ 6 L - Cover Type : Bolt closure	- Material : SUS316 - Max. Working : 4300psi@300℃ - Volume : ~ 100 L - Cover type : Bolt closure	- Material : SUS316 - Max. Working : 5000psi@300℃ - Volume : ~ 5 L - Cover type : Bolt closure	- Material : SUS316 - Max. Working : 4300psi@300℃ - Volume : ~100 L - Cover type : Bolt closure
Assembly	- O-Ring : Below 150℃ - Teflon : 150~250℃ - Metal : Over 250℃ - Liner Type : Teflon (Option)	- O-Ring : Below 150℃ - Teflon : 150~250℃ - Metal : Over 250℃ - Liner Type : Teflon (Option)	- O-Ring : Below 150℃ - Teflon : 150 ~250℃ - Metal : Over 250℃ - Liner Type : Teflon (Option) - MagneDrive	- O-Ring : Below 150℃ - Teflon : 150~250℃ - Metal : Over 250℃ - Liner Type : Teflon (Option) - MagneDrive
Heating device	- Ceramic Band Heater - 220VAC, 1-ph(3-ph), 2kw	- Ceramic Band Heater - 380VAC, 3-ph, 10kw	- Ceramic Band Heater - 220VAC, 1-ph(3-ph), 2kw	- Ceramic Band Heater - 380VAC, 3-ph, 10kw
Controllor	- Main Temp. - Over Temp. - Timer - Pressure	- Main Temp. - Over Temp. - Timer - Pressure	- Main Temp. - Over Temp. - Timer - Pressure - Speed	- Main Temp. - Over Temp. - Timer - Pressure - Speed
Accessaries	- Pressure Gauge - Pressure Transducer - Relief Valve	- Pressure Gauge - Pressure Transducer - Relief Valve	- Pressure Gauge - Pressure Transducer - Relief Valve - Impeller & Shaft	- Pressure Gauge - Pressure Transducer - Relief Valve - Impeller & Shaft
Option	- Liquid Pump - Vaccum Pump - Chiller - Gas Booster	- PLC Control - Liquid Pump - Vaccum Pump - Chiller - Gas Booster	- Liquid Pump - Vaccum Pump - Chiller - Gas Booster	- PLC Control - Liquid Pump - Vaccum Pump - Chiller - Gas Booster

* Can be changed upon customer's requirements.