Hydrothermal Reactor

Brand **Master Science** | Unit **Pc**











The Hydrothermal Autoclave reactor is used to carry hydrothermal reaction at high pressure and high temperatures.

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Overview

The Hydrothermal Autoclave reactor is used to carry hydrothermal reaction at high pressure and high temperatures. The reactor is mainly made up of two parts; outer high-quality stainless steel jacket and inner Teflon liner or chamber.

Technical Specifications

PARAMETER	SPECIFICATION
Reactor Sealing TypeScrew Sealing, Flange Sealing	
Safe Temperature200°C	
Max Operating Temperature230°C	
Working Pressure≤ 3MPa	
Heating and Cooling Rate≤5°C/min	
Outer Shell MaterialStainless steel (SS-304)	
Inner Shell MaterialTeflon or PTFE	
Pressure GaugeNo	
PartsReactor Body, Reactor Lid, Bottom Pad, Top Pad, Liner, Liner Lid	
Maximum operating temperature≤230°C	
Safe operating temperature– 200°C	
Working Pressure≤3MPa or 30 Bar	

PARAMETER	SPECIFICATION
Recommended Heating and Cooling Rate≤5°C/min	
Size25ml, 50ml, 100ml, 150ml, 200ml, 300ml, 500ml (customize size available	
MaterialReactor Shell made of high-quality nonmagnetic 304 stainless steel (316SS can be made on special re	
quest)	
Material -LinerPTFE (Poly Tetra Fluoroethylene	Highly chemically resistant. Resistant to Acid and Alkali, and v
arious organic solvents)	
Easy to handle	
Can be customized	
Cost effective	