

Laboratory Hydraulic Hot Press For Solid State Battery Research With Programmable Controls And Independent Platen Heating

Item Number: ZY15



Introduction

Compact laboratory hydraulic hot press for solid-state battery research featuring programmable pressure and temperature control, independent platen heating up to 300°C, and automated pressure holding. Ideal for electrode consolidation and thin film preparation with precise ± 0.1 T pressure control accuracy.

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Parameter	Specification
Model Series	ZY15
Operating Temperature Range	0 – 300 °C
Heating Configuration	Embedded heaters, independent top/bottom platen control
Platen Dimensions	150 × 150 mm
Platen Opening Distance	50 mm
Pressure Control Accuracy	± 0.1 T
Pressure Control System	Programmable automatic pressure-holding and auto-replenishment
Compliance Certification	CE

Specification	EXW Standard Edition	DDU USA Edition	Water-Cooling System Edition (Historical Reference)
Maximum Working Pressure	10 T	5 T	10 T
Heating Power	1200 W	1200 W	1800 W
Power Supply Requirements	Adaptable to local voltages	AC 110V / 60Hz	AC 110V / 60Hz
Platen Cooling Method	Natural cooling	Natural cooling	Circulating water cooling
Control Interface	Temp & pressure programmable touch screen	Temp & pressure programmable touch screen	7-inch touch-screen controller
Physical Dimensions	290 × 280 × 390 mm	290 × 280 × 390 mm	280 × 240 × 380 mm
Net Weight	75 kg	75 kg	80 kg

Research Field	Experimental Application	Objective Description
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Solid-State Batteries	Solid electrolyte pellet pressing	Compressing ceramic, polymer, or composite electrolyte powders to reduce interfacial resistance.
Polymer Chemistry	Thermoplastic film preparation	Preparing thin polymer membranes of uniform thickness for mechanical and barrier performance testing.
Composite Materials	Laminate hot-press curing	Consolidation of fiber-reinforced polymer matrices under controlled thermal cycles.
Pharmaceutical R&D	Solid-dosage tablet preparation	Fabricating solid samples to evaluate structural stability and dissolution behavior under thermal-mechanical stress.