

Solid-State Battery Laboratory Hydraulic Hot Press With Dual-Plate Heating And Programmable Pressure Control

Item Number: ZY07



Introduction

This benchtop hydraulic hot press is tailored for solid-state battery lab needs, with independent dual heating plates, precise temperature control to 300°C, water cooling, and automatic pressure replenishment. Suited for solid electrolyte pellet making, electrode lamination, and composite mold.

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Parameter	Specification
Model	ZY07
Working Temperature	0 - 300°C
Temperature Control Resolution	±1°C
Heating Mode	Independent heating via embedded heaters in dual platens
Heating Power	2800 W
Platen Size	200 mm × 200 mm
Daylight / Platen Opening	50 mm
Working Pressure Range	0 - 30 T (Metric Tons)
Pressure Control Accuracy	±0.5% F.S. (Full Scale)
Pressure Management	Programmable automatic pressure maintaining and replenishment
Platen Cooling Mode	Circulating water cooling
Power Supply	AC 220V / 50Hz
Controller Type	Programmable touch-screen controller (Temperature & Pressure)
Reference Weight	160 Kg

Experimental Module	Typical Material / Process	Primary Controlled Output
Solid Electrolyte Pelletting	Sulfide, oxide, or halide ceramic powders	Pellet density, thickness uniformity, and green strength
Electrode-Electrolyte Lamination	Lithium metal foil to solid-state electrolyte sheets	Interfacial contact resistance and bonding quality
Polymer Electrolyte Pressing	PEO-based polymer matrices or composite membranes	Crystallinity control and consistent membrane thickness
Composite Specimen Molding	Thermoplastic and thermosetting matrix composites	Void reduction and structural consolidation