



ACS Material Equipment Series

PressPro™ Vacuum Automatic Hot Press Machine

(EPHXAZ Series)

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I. Product Composition

1) Main Machine



Photo of Vacuum Hot Press Machine

II. Product Features

Based on the automatic hot press machine, this new tool has been developed to conduct hot press experiments on samples in a vacuum environment. The close integration of the hot press plate with the vacuum chamber (or vacuum glove box) allows the vacuum degree to reach -0.1MPa , meeting the experimental requirements of users in a vacuum environment.

III. Product Specifications

Product Name	PressPro™ Vacuum Automatic Hot Press Machine		
Model	EPHXAZ01	EPHXAZ02	EPHXAZ03
Pressure Range	0.3-25T/0.1t		0.5-30T / 0.01t
Pressurization Method	Automatic pressurization / automatic gradual pressurization		
Sample Pressure Process	Automatic pressurization – Automatic pressure holding – Precise pressure compensation – Timed pressure release		
Pressurization Stages	5 stages (upgrade to 30 stages available)		
Pressurization Time	Unlimited seconds, configurable per stage		

Mold Pressure Conversion	Real-time automatic calculation of sample pressure (MPa)		
Control Interface	7-inch touch LCD screen (remote control optional) Pressure display - Temperature control system – Data management system		
Vacuum Degree	-0.1MPa		
Temperature Control System	Programmable with 5-stage heating – Automatic heating and insulation – Natural cooling		
Insulation Time	Unlimited seconds, configurable per stage		
Hot Pressing Plate Type	Dual flat plate heating and pressing, upper plate suspended by threaded rod/polished surface plate.		
Heating Temperature	Room temperature to 300°C (0.1°C increments)		
Heating Core Material	Aluminum		
Hot Pressing Plate Cooling Method	Natural cooling (optionally available with air/water cooling chiller)		
Insulation Method	Imported insulation plate		
Pressure Safety Configuration	Automatic pressure release when the system pressure exceeds the safety value + emergency stop switch		
High-temperature Safety Configuration	When mold temperature exceeds 50°C, temperature controller automatically signals “Caution: Hot Surface”		
Power Supply	220V (50Hz/60Hz) with leakage protector		
Hot Pressing Plate Size	180×180mm	200×200mm	300×300mm
Workspace	W 180×60 mm	W 200×60 mm	W 300×60 mm
Maximum Power	2200W (900W*2+100W+300W)		3000W
Weight	290kg	290kg	400kg
Configuration Description	This is a custom product on demand. Includes 1 main machine. Optional vacuum pump.		

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