ACS Material Equipment Series

PressPro™ Electric Heating Manual Hot Press Machine

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I. Product Composition

1) **Main Machine**
2) **Temperature Controller**
3) **Molds- Customizable**

Photo of Hot Press Machine

Example Photo of Mold

II. Product Features

This machine is composed of three parts: a manual hot press machine, a temperature controller, and a set of hot press mold (an electric version of the hot press is also available). It is particularly suitable for hot press experiments on various powder samples, chemical raw materials, and other materials, allowing for the fixation of sample shapes and sizes. The mold shape and specifications can be customized.

III. Product Specifications

Product Name	PressPro™ Manual Electric Heating Hot Press Machine			
Model	EPHBMA01	EPHBMAG1	EPHBMB01	EPHBMBG1
Pressure Range	0-15T/0.01t (30MPa)		0-24T/0.01t (34MPa)	

Piston Diameter	Ø80mm		Ø95mm	
Workspace	W 80 * 150mm (Customizable height extension)		W 112 * 160mm (Customizable height extension)	
Max Piston Stroke	<30mm (Warning! Please do not exceed the cylinder's rising height.)			
Pressurization Method	Manual pressurization / manual gradual pressurization			
Control Interface	7-inch touch LCD screen (remote control optional, not included) Pressure display - Temperature control system – Data management system			
Sample Pressure Conversion	Real-time automatic calculation of sample pressure (MPa)			
Temperature Control System	Programmable with 5-stage heating – Automatic heating and insulation – Natural cooling			
Insulation Time	Unlimited seconds, configurable per stage			
High-temperature Safety Configuration	When mold temperature exceeds 50°C, temperature controller automatically signals "Caution: Hot Surface"			
Insulation Method	Imported insulation plate (option for stainless steel water-cooled insulation plate, will require a water chiller)			
Power Supply	220V (50Hz/60Hz) with leakage protector			
Maximum Power	600W (500W+100W)			
Hot Press Mold Specifications	Choose 1 set between Ø3- Ø20mm		Choose 1 set between Ø21- Ø40mm	
Heating Temperature	Room temperature to 300°C (0.1°C increments)	Room temperature to 500°C (0.1°C increments)	Room temperature to 300°C (0.1°C increments)	Room temperature to 500°C (0.1°C increments)
Heating Core Material	Aluminum	Copper	Aluminum	Copper
Overall Dimensions	Main unit: 250*180*420mm Temperature Controller: 230*270*180mm		Main unit: 305*195*425mm Temperature Controller: 230*270*180mm	
Weight	~45kg		~68kg	
Configuration Description	Includes 1 main machine, 1 temperature controller, and 1 set of molds. Optional, not included: pressure gauge, air/water cooled chiller. Customizable hot pressing molds according to requirements.			

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