



ACS Material Equipment Series

MiniPro™ Automatic Laboratory Hot Press

I.	Product Overview
II.	Product Features
III.	Product Specifications

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I. Product Overview

1) Main Unit



MiniPro™ Automatic Laboratory Hot Press

II. Product Features

The Automatic Vacuum Hot Press Machine is a state-of-the-art solution designed for precision molding and material testing. Combining advanced heating, high-pressure compression, and automation, this machine streamlines the pressing process for plastics and composite materials.

Unlike traditional manual presses, this automated system offers programmable operation for effortless and repeatable experiments. With a single-button start, the machine independently executes the entire pressing cycle, including automated mold opening and sample ejection. Its intelligent pressure-holding and compensation system ensures precise temperature and force distribution, significantly improving efficiency while reducing labor requirements.

Equipped with a microcomputer-controlled timer, the system delivers highly accurate processing that minimizes variations in sample quality. With a powerful 32-ton pressing force, it effectively molds low-flowability materials, making it ideal for a wide range of applications. The touchscreen provides manual and automatic operation modes, enabling complete customization and ease of use.

Designed for portability and convenience, the 85 kg main unit is easy to transport, while the plug-in modular design allows for fast and simple maintenance. The machine offers adjustable plate sizes and incorporates black plate technology to enhance demolding performance.

Key Features

- Accurate automatic timing, ensuring uniform processing and reduced variability in sample pressing
- Fast heating and cooling, reaching 180°C in just 10 minutes, hot pressing in 6 minutes, and water cooling in 5 minutes
- Touchscreen & Programmable Controls with intuitive interface with manual and automatic modes for maximum flexibility
- 32 tons of force, ideal for low-flowability materials (sheets, dumbbell-shaped test specimens, etc.)
- Automatic pressure increase and hold, no manual adjustment required
- Optional plate sizes from 150 mm to 310 mm
- Black plate coating prevents sticking and improves mold release
- Quick assembly and replaceable components for hassle-free maintenance

This cutting-edge hot press is the ideal solution for material testing, sample preparation, and research applications, delivering efficiency, precision, and repeatability in every cycle.

III. Product Specifications

Product Name	MiniPro™ Automatic Laboratory Hot Press	MiniPro™ Automatic Laboratory Hot Press	MiniPro™ Automatic Laboratory Hot Press	MiniPro™ Automatic Laboratory Hot Press	MiniPro™ Automatic Laboratory Hot Press
SKU	EHPMA101	EHPMA102	EHPMA103	EHPMA104	EHPMA105
Model #	R32022020D	R32122016D	R32042023D	R32212017D	R32022015D
Dimensions (mm)	400 × 530 × 630 (d × w × h)	430 × 580 × 630 (d × w × h)	540 × 530 × 750 (d × w × h)	430 × 580 × 630 (d × w × h)	400 × 430 × 630 (d × w × h)
Voltage Supply (V)	240V	240V	240V	240V	240V
Weight (kg)	85	110	150	120	100
Maximum Stroke (mm)	65	65	65	65	65
Plate Size (mm)	150 x 150	200 x 200	310 x 310	200 x 200	150 x 150
Cooling Method	Water cooling	Water cooling	Water cooling	Water cooling	Water cooling
Temperature Display (Accuracy)	±1%	±1%	±1%	±1%	±1%
Temperature Control Range (°C)	40 - 450	40 - 300	40 - 450	40 - 400	40 - 300
Heating Power (kW)	2.2	2.2	3.0	2.2	2.2

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