

TECHNICAL DATA SHEET

## PressPro™ Dual Flat Heating Plate Automatic Cold Press Machine

*Automatic cold press · up to 40 T · 5-stage programmable · 7-inch touch LCD · real-time MPa readout*



PressPro™ EPCPAZ series automatic cold press machine — dual flat platens, fixed upper platen, 7-inch touch LCD. Image shown for reference; dimensions and configuration vary by model.

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## SECTION I

## Product Overview

The PressPro™ Dual Flat Heating Plate Automatic Cold Press Machine (EPCPAZ series) is a fully automatic electric-hydraulic laboratory press with dual flat platens and a fixed upper platen. Four models cover 0.3–25 T, 0.3–30 T and 0.5–40 T, with 180 × 180 to 400 × 400 mm platens. A 7-inch touch LCD runs the full cycle — automatic pressurization, holding, precise compensation and timed release — in five customizable stages, converting mold force to sample pressure (MPa) in real time. Die molds are optional, customizable, and not included with the main machine.

## SECTION II

## Core Advantages

- **Complete automatic cycle** — pressurization, holding, precise compensation and timed release run as one programmed sequence; no manual pumping
- **Sample pressure in MPa, live** — mold force is automatically converted to the pressure applied to the sample and displayed in real time
- **Five customizable stages** — independent settings per stage; pressurization time configurable per stage, in unlimited seconds
- **Overpressure protection built in** — pressure is released automatically when the system pressure exceeds the safety threshold; emergency stop switch fitted

## SECTION III

## Specifications

### Technical data

| Specifications           |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Brand                    | PressPro™ by ACS Material                                                                                      |
| Models (SKU)             | EPCPAZ01 · EPCPAZ02 · EPCPAZ03 · EPCPAZ04                                                                      |
| Pressure Range           | 0.3–25 T / 0.1 t (EPCPAZ01, EPCPAZ02) · 0.3–30 T / 0.1 t (EPCPAZ03) · 0.5–40 T / 0.1 t (EPCPAZ04)              |
| Pressurization Method    | Automatic pressurization / gradual pressurization                                                              |
| Sample Pressure Process  | Automatic pressurization – automatic pressure holding – precise pressure compensation – timed pressure release |
| Pressurization Stages    | 5-stage customizable settings                                                                                  |
| 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, not included)                                                |
| Touchscreen Modules      | Pressure system – temperature control system – data management system (USB upgrade support)                    |
| Pressing Type            | Dual-plate pressing with a fixed upper platen                                                                  |
| Pressure Safety          | Automatic pressure release when system pressure exceeds the safety threshold + emergency stop switch           |
| Power Supply             | 220 V (50 Hz / 60 Hz) with leakage protector                                                                   |

| Specifications      |                    |                    |                    |                    |
|---------------------|--------------------|--------------------|--------------------|--------------------|
| Parameter           | EPCPAZ01           | EPCPAZ02           | EPCPAZ03           | EPCPAZ04           |
| Pressure Range      | 0.3–25 T / 0.1 t   |                    | 0.3–30 T / 0.1 t   | 0.5–40 T / 0.1 t   |
| Pressing Plate Size | 180 × 180 mm       | 200 × 200 mm       | 300 × 300 mm       | 400 × 400 mm       |
| Workspace           | W 180 × 65 mm      | W 200 × 65 mm      | W 300 × 65 mm      | W 400 × 65 mm      |
| Maximum Power       | 400 W              |                    | 560 W              | 700 W              |
| Overall Dimensions  | 360 × 460 × 600 mm | 360 × 460 × 620 mm | 470 × 440 × 600 mm | 570 × 540 × 640 mm |
| Weight              | 155 kg             | 165 kg             | 330 kg             | 420 kg             |

EPCPAZ01 and EPCPAZ02 share the published 0.3–25 T / 0.1 t range and 400 W rating (merged cells in the source table, verified against the published TDS). Never exceed the rated pressure of the model concerned.

#### Scope of delivery

- Standard configuration: EPCPAZ series main machine, 1 unit
- Die molds: optional and customizable
- Die molds and remote control: optional and not included
- Customized hot press machines / perforated mold plates: available upon request

Final accessories and scope of supply are confirmed in the quotation.

## SECTION IV

### Applications

Laboratory pressing — programmable laboratory pressing with user-defined stages, automatic pressure holding, pressure compensation and timed release. Die molds are optional and customizable. Suitability for specific samples and applications should be confirmed before ordering.

Product value: up to 40 T from a fully automatic electric-hydraulic drive, with a five-stage programmable pressurize–hold–compensate–release cycle, real-time MPa readout on a 7-inch touch LCD, and built-in overpressure protection — across four models covering 180 × 180 to 400 × 400 mm platens.

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