

# Manually Operated Laboratory Presses



## APPLICATION

For more than 75 years Fontijne Presses has produced durable and high quality laboratory platen presses. These presses are used in the plastic, rubber, laminating/wood, ceramic and polymer processing industries. Our presses are mostly used as sample preparation equipment for materials testing and quality control.

The THA200 and THB400 are manually operated presses and therefore extremely suitable for pressing materials that require the "feeling" of a hand pump. For applications where automation is not necessary, these manual presses offer an economical solution.

## DESIGN

### Press frame

The press frame incorporates a solid steel, two column construction. The lower platen is connected directly to the hydraulic upstroke cylinder.

### Hydraulics

The hydraulic system is located in the press frame. The hydraulic cylinder is a single acting type. The THA200 is equipped with one pump for closing and pressing. The THB400 is equipped with two pumps, one for fast closing the other for accurate pressing.

### Heating / cooling platens

The platens are designed as a combined heating / cooling plate and provided with inlets / outlets to connect external temperature regulation systems. In the basic version the platens are equipped with electrical cartridge heating elements and provided with cooling channels. The steel platens are designed in such a way that an equal temperature-distribution over the platen surface is ensured. Heating rates can vary between 1°C - 30°C/min, depending on the type of heating system. The cooling channels are specifically designed for high cooling rates.

### Controls

The standard THA200 and THB400 are equipped with two digital temperature controllers and an analog pressure controller.

### Features

- Compact and simple to operate
- Ergonomic
- Stable
- Reliable construction
- Low investment needed
- Durable

## Technical data

Type	THA200	THB400
Closing force (kN)	200	400
Platen size (mm)	225 x 225	320 x 320
Cylinder stroke (mm)	140	160
Daylight (mm)	140-200	160
Specific platen pressure (N/cm <sup>2</sup> )	295	390
Capacity per platen (kW)	1.8	3.2
Max. temperature (°C)	300	300
Weight / net (kg)	275	375



## FONTIJNE PRESSES - PRECISION IN PRESSING

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