

# CitoPress



The fastest way to mounting and increased productive capacity



**CitoPress is offering ultra-short mounting times and maximum user-friendliness. Speed is further improved by using the optional dosing system. The unique automatic dosing system enables dosing of a pre-set amount of mounting resin.**

## Main features

- Low mass mounting units for fast heating
- Automatic detection of cylinder dimension
- Automatic dosing system for faster filling of the cylinders and less spilling of resins
- Turn/push-knob and large display for intuitive operation
- On-screen Hot Mounting Application Guide for convenient information and minimum of errors

## Additional features

- Extended temperature range: 80-180°C
- Remote signalling (flashing light when process is ready)
- Selectable Stand-by heat with sleep function
- Software options: Sensitive, Database
- Low build-height for easy visual control
- Triple-threaded, no-jam top closure
- Individually controlled parameters: temperature, force/pressure, heating time, cooling time
- Simple access for easy cleaning
- Top closure elevator for easy positioning
- Powerful heating unit (1000 W)
- Hydraulic system with high accuracy pressure control
- 3 preset cooling levels (Hi/Med/Lo)





## CitoPress increases your capacity

CitoPress is a powerful mounting press, giving you high speed and maximum user-friendliness. The result is faster turnaround and increased productive capacity.

CitoPress is provided with a hydraulic system, where the pressure is controlled with very high accuracy, securing fragile specimens.

Available as CitoPress-20 with dual cylinder, and as CitoPress-10 with a single cylinder. In addition, CitoPress-1 is available for customers doing very few samples.

## Automatic dosing system

Speed is further improved by using the optional dosing system. The unique automatic dosing system enables dosing of a pre-set amount of mounting resin. The advantages are faster filling of the cylinders and less spilling of resins.

### How it works

A dosing unit is linked to a specific resin by a RFID chip, which is recognized by the mounting press. In turn, when using

CitoDoser, the last used method is automatically stored and recalled when the relevant Doser is placed on the press.

With its flat base, CitoDoser is easily stored on the workdesk when not in use.

To be able to link CitoDoser and the resin inside with more than one method, it is necessary to purchase the Database option.

## Large display and turn/push-knob

CitoPress-10/-20 feature a large, LCD display, which graphically shows parameter settings and mounting progress. Changing parameters is very fast

and easy by using the turn/push-knob. Intuitive operation secures faster turn-around, a minimum of errors and the shortest possible set-up time.

Method parameters (temperature, pressure, heating time, cooling time) can be controlled individually, ensuring full flexibility in mounting.

The user-friendly turn/push-knob gives access to the following standard options:

### Stand-by mode

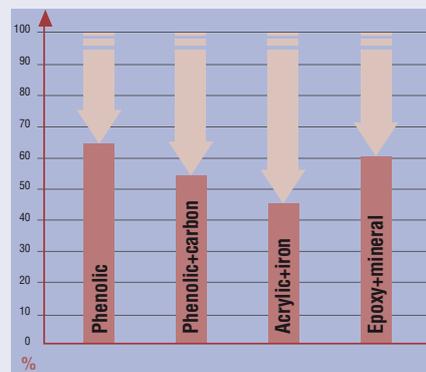
Used for serial mounting. Maintains a minimum temperature of 20-60°C on the mounting unit, thus cutting down on the heating time. Unlike other presses, stand-by heating can be switched off.

### Operation mode

Three different operation levels are available for selecting levels of user access:

- Production mode, gives access to mounting and selection of method only.
- Development mode, gives access to changing method parameters (plus Production mode access).
- The Configuration mode, gives full access, including access to configuration of set-up parameters.

CitoPress mounting times for different resins, compared to competing presses (competing presses = 100%)



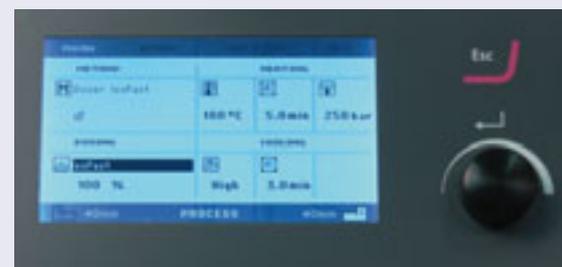
CitoPress can reduce mounting times by half, compared to competing presses



CitoDoser: Automatic dosing option



Intuitive operation: Push a single key to activate the automatic dosing system



Fast and easy selection: The large display and the turn/push-knob facilitate a fast selection of selection parameters



## User-friendly software

### On-screen Hot Mounting Application Guide

The built-in Hot Mounting Application Guide takes user-friendliness to a new level. You have the mounting parameters for all Struers resins right on the press. A detailed description of the Struers resins is also available on-line.

Select the Struers resin to be used, and CitoPress automatically checks the cylinder diameter used, adapts the appropriate method, after which it is displayed – ready for use. Everything you need to know about the resins and their usage – right at your fingertips!

### Automatic detection of cylinder dimension

When changing the cylinder dimension, the press automatically detects the new size, and adjusts the method parameters accordingly. In this fashion, errors from an incorrect cylinder setting are eliminated.

### Remote signalling

The mounting unit tower is equipped with a LED-bar, which lights up when a process is started, and flashes when the process is completed. Thus, even from

across the lab, the operator can tell when his mount is ready. The LED-bar may be supplemented by an acoustic alarm, which is available on all three models.

### Software options

In addition the following software options are available:

- Sensitive option:  
Dual phase heating and pressure, for fragile/porous specimens
- Database option:  
Method database for up to 10 user-defined methods

## User-friendly design

### Low build height

Low build height means easy visual inspection of the mounting cylinder. This is relevant e.g. if tall, thin samples are to be mounted, and the operator wants to check if the sample still stands after adding resin. Another typical situation would be if multiple samples are to be included in the same mount.

### Easy Cleaning

The door to the mounting unit tower swings open for easy access to the mounting unit.

### Compact mounting units

CitoPress is equipped with compact, low-mass mounting units significantly reducing heating time.

Available cylinder diameters: 25, 30, 40, 50 mm, 1¼" and 1½".

### Simple top closure

All presses come with a top-closure elevator.

Any handling problems of the top closure as seen on other presses are solved by the top closure design.

The CitoPress top closure is with triple-thread. Thus, the entire process of mounting the top closure follows with a minimum of effort.



LED bar for remote signalling



Easy access means quick change of mounting units and easy cleaning



Top closure elevator for easy handling



*ClaroFast is a transparent hot mounting resin, offering you transparent mounts with a clear view to all sample details*

## Saves money and resources

The benefit of shorter heating times is reduced energy consumption. Compared to competing presses, less than half the power is required to heat the mounting unit.

### Recirculation cooling unit

CitoPress-10 and -20 are prepared for quick connection to a recirculation unit (Cooling System 3).

### Three preset cooling levels

All CitoPress models come with three preset cooling levels. The main advantage is water saving, meaning that the MEDIUM mode can be used in most cases, and water usage reduced significantly.

Thermoplastic resins require far longer cooling times than thermosetting. With CitoPress, the cooling level can be set to match the resin. E.g., instead of reducing the cooling level by manually reducing the flow at the water tap, the level can be reduced by selecting the LOW mode.

## CitoPress-1

CitoPress is available in this special version for customers mounting few samples. The CitoPress-1 has no On-screen Application Guide, no software options and no remote signalling. All settings and the dosing are manual.

### CitoPress-1 features

- Single cylinder
- Pressure as well as heating and cooling time are controlled individually
- 3 preset heating levels

## Specifications

### CitoPress-20

Advanced, electro-hydraulic hot mounting press with two cylinders, which can be used individually. Built-in Hot Mounting Application Guide with automatic conversion of method parameters. Mounting units are ordered separately. Optional dosing unit CitoDoser and Base Unit (CITDO+CITBU), recirculation cooling unit (COLTE), Database (CITDB) and Sensitive mode (CITTS).

**Code:**

**Cat. no:**

CITTY

05746127

### CitoPress-10

Advanced, electro-hydraulic hot mounting press with one cylinder. Built-in Hot Mounting Application Guide with automatic conversion of method parameters. Mounting units are ordered separately. Optional dosing unit CitoDoser and Base Unit (CITDO+CITBU), recirculation cooling unit (COLTE), Database (CITDB) and Sensitive mode (CITTS).

CITTE

05736127

### CitoPress-1

Automatic, electro-hydraulic hot mounting press with one cylinder. Mounting units are ordered separately.

CITON

05776127

### Mounting units

Consisting of heating/cooling unit, lower ram and top closure with upper ram.

Cylinder diameter 1½"

MOU12

05786127

Cylinder diameter 1¼"

MOU14

05786227

Cylinder diameter 25 mm

MOU25

05786327

Cylinder diameter 30 mm

MOU30

05786427

Cylinder diameter 40 mm

MOU40

05786527

Cylinder diameter 50 mm

MOU50

05786627

### CitoDoser

Semi-automatic dosing unit with electronic ID-tag for automatic recognition by hot mounting press. Requires CitoDoser Base (CITBU).

CITDO

05796101

### CitoDoser Base Unit

Base unit for use with CitoDoser (CITDO).

CITBU

05796102

### CitoPress Database

Database option for CitoPress-10 and -20. Store up to 10 mounting methods

CITDB

05736900

### CitoPress Sensitive

Sensitive option for CitoPress-10 and -20. Dual phase heating and pressure for fragile/porous specimens.

CITTS

05736901

### Cooling system 3

With 50 l tank (COLST), small pump (COLSS), Cooli-1 (COOL1) and 50 l static filter (COLSF) with filter paper (COLSP).

COLTE

See voltage

Voltage:

1 x 100 V / 50 Hz

05766516

1 x 120 V / 60 Hz

05766523

1 x 220 V / 50 Hz

05766522

1 x 240 V / 60 Hz

05766524

1 x 100-120 V / 50/60 Hz CSA

05766616

CitoPress with automatic dosing system for faster filling of the cylinders and less spilling of resins



## Technical data

SUBJECT	SPECIFICATION
<b>Mounting unit</b>	
Mounting dia.	25, 30, 40, 50 mm, 1 ¼", 1 ½"
No. of mounting units	CitoPress-1/-10: 1 CitoPress-20: 2
<b>Mounting press</b>	
<b>Mounting parameters</b>	
Pressure	CitoPress-1: 50–250 bar in steps of 25 bar CitoPress-10/-20: 50-350 bar in steps of 25 bar
Heating time	1-15 min in steps of 0.5 min
Heating temperature	CitoPress-1: 120/150/180°C / 302/356°F CitoPress-10/-20: 80-180°C / 176-356°F in steps of 5°C
Cooling time	1-15 min in steps of 0.5 min
Cooling rate	High: Full flow Medium: 20% of full flow Low: 3% of full flow
Dosing rate*	20-150%
*) with optional CitoDoser	
<b>Software and electronics</b>	
Controls	CitoPress-1: Touch pads CitoPress-10/-20: Touch pads, turn/push-knob
LCD display with white LED backlight	CitoPress-1: 160x240 dots CitoPress-10/-20 : 320x240 dots
<b>Noise levels</b>	
Idle	0 dB (A)
Max.	56 dB(A)
<b>Working environment</b>	
Temperature, operational	5-40°C / 41-104°F
Humidity, non-condensing	0-95% RH
<b>Supply</b>	
Voltage / frequency	100-120V / 50-60Hz, 200-240V / 50-60Hz Auto detection and auto switch over
Power inlet (IEC320-C13)	1-phase (N+L+PE) or 2-phase (L1+L2+PE) <i>The electrical installation must comply with "Installation Category II"</i>
Power, idle	8W
Power, max.	CitoPress-1/-10: 1300W@100-120V, 1300W@200-240V CitoPress-20: 1300W@100-120V, 2300W@200-240V
Current, max.	CitoPress-1/-10: 13A@100–120V, 5.6A@200–240V CitoPress-20: 13A@100-120V, 10A@200–240V
Water pressure (tap water)	1-10 bar / 14.5-145 psi
Water inlet	¾"
Water outlet	ø13 mm
<b>Dimensions and weight</b>	
Width	CitoPress-1/-10: 480 mm / 19", CitoPress-20: 550 mm / 21½"
Depth	560 mm / 22"
Height	450 mm / 17,7" (excl. CitoDoser) 550 mm / 21½" (incl. CitoDoser)
Weight	CitoPress-1/-10: 34 kg / 75 lbs, CitoPress-20: 48 kg / 106 lbs CitoDoser: 3.1 kg / 7 lbs



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