



The **Opal 410** is a fully hydraulic, water cooled hot mounting press for mounting samples before polishing. The process sequence is executed automatically. Mould assemblies can be exchanged quickly and without tools. The robust aluminium construction is powder coated. With its solid construction and ATM hydraulic system, the operating noise of the machine is minimized.



OPAL 410



SIMPLE OPERATION

The bayonet connection enables easy loosening and swinging to the side. Externally accessible closure components are PTFE-coated.

After pressing the start key, the fully automatic program is executed with the preselected parameters.

The parameters can be changed and adjusted during the mounting process.

MOULD ASSEMBLIES

Our comprehensive selection of mould assemblies from Ø 25.2 - 40 mm enables optimum mounting of your sample.

Two mounts can be produced simultaneously with the use of a spacer.

ELECTRONIC CONTROL

With its clear LCD operation panel you can easily control the hot mounting press.

HEATING

Our high-power heating system gives a very short warm-up time.

COOLING WITH WATER-SAVING-FUNCTION

The mounting process is either cooled with continuous or pulsed water flow. Thereby, a considerably lower water consumption can be achieved by pulsed cooling.

PRESSURE CONTROL

Besides the standard operation, you can choose between six pressures depending on sample diameter.



BASIC MODULE



OPAL 410

Order No.: M0770000

- » Automatic hot mounting press
- » Fully hydraulic operation with automatic water cooling (with water saving function)
- » Bayonet closure system
- » Computer controlled
- » Double mount capability
- » Aluminium case, powder coated
- » Easy change of mould assemblies

EQUIPMENT

POWER SUPPLY (select equipment)

Equipment 1

230 V/50 Hz (1/N/PE)

Order No.: A0770000

Equipment 2

110 V/60 Hz (1/N/PE)

Order No.: A0770001

ACCESSORIES

COOLING UNIT

Recirculation unit

» Extern

- » Cooling 0.81 kW
- » Motor 0.6 kW
- » Flow pressure 2.8 bar
- » Tank 6 Ltr.
- » WxHxD 440x345x565mm

230 V/50 Hz (1/N/PE)

Order No.: Z0730007

110 V/60 Hz (1/N/PE)

Order No.: Z0730008



System cooling unit

» Integrated in drawer

- » Cooling 0.81 kW
- » Motor 0.6 kW
- » Flow pressure 2.8 bar
- » Tank 6 Ltr.

230 V/50 Hz (1/N/PE)

Order No.: A5800118

110 V/60 Hz (1/N/PE)

Order No.: A5800141



Water cooling with water saving-function

ACCESSORIES

MOULD ASSEMBLIES (CYLINDER, UPPER- AND LOWER RAM)



| | Order No.: |
|----------------------|------------|
| Ø 25,2 mm (appr. 1") | Z0770101 |
| Ø 30 mm | Z0770102 |
| Ø 32 mm | Z0770103 |
| Ø 31,75 mm (1¼") | Z0770104 |
| Ø 38 mm (appr. 1½") | Z0770105 |
| Ø 40 mm | Z0770106 |

CONNECTION SET

Order No.: Z0730003
 » 2 pressure tubes R ½"; 2 m
 » Adapter for ¾"

SPACERS FOR DOUBLE MOUNTS



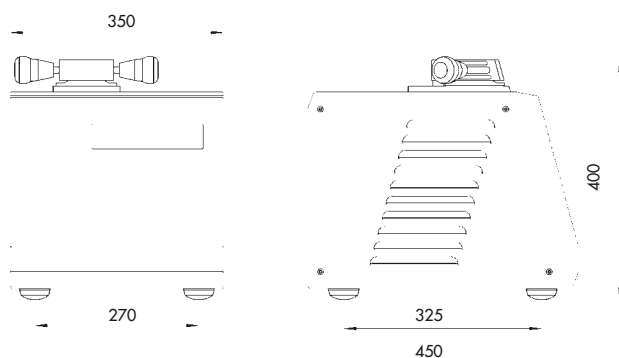
| | Order No.: |
|----------------------|------------|
| Ø 25,2 mm (appr. 1") | 00702113 |
| Ø 30 mm | 00702114 |
| Ø 32 mm | 00702115 |
| Ø 31,75 mm (1¼") | 00702141 |
| Ø 38 mm (appr. 1½") | 00702116 |
| Ø 40 mm | 00702117 |

SYSTEM LAB CABINET



Order No.: M5800048
 » WxHxD 880x800x800 mm
 » System lab assembly

SPECIFICATIONS



| | |
|-------------------|-------------------------------------|
| Moulds | Ø 25.2 - 40 mm |
| Connected load | 2.5 kVA |
| Power supply | 1 230 V/50 Hz (1/N/PE) |
| | 2 110 V/60 Hz (1/N/PE) |
| Heating | 4 x 500 Watt |
| Temperature range | 0 – 200 °C |
| Heating timer | variable / 0 - 30 min |
| Cooling timer | variable / 0 - 30 min |
| Pressure | up to 450 bar depending on mould |
| WxHxD | 350 x 400 x 450 mm |
| Weight | 40 kg |

