



The LabManual 50 is a manually operated hydraulic laboratory press. Thanks to its accurate pressing quality and its compact format and smart user interface, the LabManual 50 is increasingly used by laboratories around the world for the preparation of samples for quality control and R&D purposes.

The LabManual 50 can handle pressing needs up to 50kN and 200°C, but also allows the use of much lower closing forces. Whichever settings you choose, the results will prove to be accurate and consistent over time.

Thanks to its modest footprint, the LabManual 50 can easily get installed on a workbench in any lab. Furthermore, the unit's closed hydraulics operation prevents oil from leaking. The CE certified LabManual 50 is designed with safety in mind, while its ergonomic design and straightforward operation make life easier for laboratory technicians.

Fontijne's LabManual 50 press is the right choice for applications that need accuracy and consistency, but where the number of samples to be processed is moderate, allowing manual operation.

ACCURATE AND CONSISTENT PRESSINGS

The LabManual 50 uses a very rigid press frame, resulting in a remarkably high parallelism of less than 0,1mm. Furthermore, the 2-column design allows easy access to the press area. Thanks to the precise force distribution across the entire platen surface, as well as the accurate and evenly temperature distribution, the LabManual 50 offers a highly controlled pressure build-up, resulting in accurate pressing.

SAFE OPERATION

Fontijne presses are designed with the safety of the operator in mind. The LabManual 50 has an upstroke design and is equipped with a safety shield.

EASE OF USE

Fontijne has gone to great lengths to make the operation of the LabManual 50 as simple as possible. For example, it is unnecessary to manually adjust the opening between the two platens when changing moulds, because the device is designed in such a way that the stroke size always equals the daylight size. Furthermore, several digital controls allow to use the device in a very straightforward fashion.

DIGITALLY CONTROLLED

Even though the LabManual 50 is a manually operated press, it offers multiple digital controls and read-outs, such as a digital temperature controller and a PID control system. Using the digital temperature controller, the desired temperature of the upper and lower platen can easily be entered and monitored, as the display shows both the actual temperature value and the setpoint. The PID control ensures a continuously modulated control by means of accurate and responsive correction and avoids temperature overshoot. There is also an integrated LCD-screen on the LabManual 50, which shows the closing force that is set by the handpump.



SUSTAINABILITY

Fontijne presses are known for their long – 20 years or more is no exception – lifespan. What’s more, Fontijne provides a wide variety of solutions – such as upgrade packages with the latest technologies – to improve or rebuild aging presses. This way, the presses remain state-of-the-start for many years. And when the press finally reaches the end of its life cycle, the materials can be recycled.

SERVICE POLICY

Fontijne’s service policy is aimed at keeping machine downtime to an absolute minimum. This is why we have skilled service engineers available that can be deployed all over the world. We also have a full line of original spare parts available for our LabManual presses range.

Furthermore, Fontijne has put together an extensive maintenance and calibration service to prevent downtime and to extend the life of your machine.

REFERENCES

Fontijne presses are used in many laboratories and R&D departments around the world.



EXTENDED GUARANTEE & MAINTENANCE PLAN

Upon request, the standard guarantee period can be extended. Fontijne also offers preventive maintenance and a calibration service.

TECHNICAL SPECIFICATIONS

LabManual 50		
Closing force range	kN	1 - 50
Platen size	mm	200 x 200
Specific pressure with full load	N/mm ²	1,25
Specific pressure with 150 x 150mm load	N/mm ²	2,22
Maximum temperature	°C	200
Daylight <small>Refers to the opening between the upper and lower platen</small>	mm	150
Amperage	A	16
Voltage	V	230
Length	mm	450
Width	mm	350
Height	mm	600
Weight	kg	70

Fontijne Presses BV has a policy of continuous product development and reserves the right to amend these specifications without prior notice.

AREAS OF APPLICATION

In situations where the number of samples that needs to be pressed is limited, the LabManual 50 can be used instead of an automated press, at a significantly reduced cost.

The LabManual 50 is also often used as a secondary or back-up press, allowing to run a limited number of extra tests in addition to the production of the ‘normal’ samples that are handled by an automated press.

Another application that the LabManual 50 is particularly suitable for, is for pressing fragile sample materials – such as glass –, or materials for which the pressing force must be built up very carefully.