

Fontijne Presses' benchtop LabTop series – available with a press range of 20, 150 or 300kN – is an automated hydraulic laboratory press, which combines the modest footprint of our manually operated LabManual machines with the automated ProView control system that is used in our LabEcon and LabPro series.



The critically acclaimed LabTop series is known for its accurate and consistent pressing quality, and is therefore widely chosen as sample preparation press for quality control and R&D.

Depending on the model – 20, 150 or 300 – the press range goes up to 20, 150 or 300kN at 300°C. Regardless of the model or settings used, the results will always be accurate and consistent.

Thanks to its small footprint and its 230V connection, the LabTop can easily get installed in any lab. Its ergonomic design and straightforward touchscreen interface are highly appreciated by lab technicians.

Furthermore, the LabTop series incorporates many additional safety features, such as a fixed upper platen, an emergency stop system and a safety shield.

The LabTop series is recommended for all demanding quality control and R&D applications where accuracy and consistency are prerequisites.

ACCURATE AND CONSISTENT PRESSING QUALITY

The rigid 2-column design of the LabTop press results in a remarkably high parallelism of less than 0,1 mm. Moreover, both temperature and force are distributed very accurately across the entire platen surface. The LabTop presses also allow for a highly controlled pressure build-up, resulting in very precise pressings.

Thanks to the user-friendly touch screen interface, the LabTop's functions and settings are easily accessible. Moreover, the graphic interface clearly displays the progress of ongoing processes.

The LabTop is equipped with the ProView system, which uses a 15" touch screen. This system allows you full control over the press cycle and comes with a wide range of features and setting options:

- Temperature and pressure control
- Heating and cooling ramp functions
- Pressureless preheating
- Graphical representation of the process
- Data recording & USB export options
- Different user access levels
- Compose and store up to 999 presets



PRESET BUILDER

Using the preset builder, lab technicians can easily build and store up to 999 press recipes. Selecting and starting a specific preset will start the process cycle automatically and will execute all programs commands and events.

AUTOMATIC VENTING

The automatic venting cycle/degassing stroke allows to vent the unit, by automatically opening and closing – after a preset period of time – the press. From 1 to 99 venting cycles.

SAFE OPERATION

The laboratory presses by Fontijne Presses are designed with the safety of the operator in mind. The CE-certified LabTop press has an upstroke design and is equipped with a safety shield and emergency stop.

EASE OF USE

Even though the LabTop press boasts many sophisticated features and functions, the unit is remarkably easy to operate.

Furthermore, the built-in 15” touch screen clearly shows all relevant settings and read-outs. Several on-site training

modules are available for the LabTop series, as well as online instruction materials.

SUSTAINABILITY

Our presses are known for their long – 20 years or more is no exception – lifespan. What’s more, Fontijne Presses 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 art for many years. And when the press finally reaches the end of its life cycle, the materials can be recycled.

SERVICE POLICY

Fontijne Presses’ 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 for our LabTop range. Upon request, the standard guarantee period can be extended. Fontijne Presses also offers preventive maintenance and a calibration service.



ISO 9001 AND 14001 CERTIFICATION

Fontijne Presses BV holds a ISO 9001 Quality Management System (QMS) and a ISO 14001 Environmental Management System (EMS) certification - proof of compliance with the requirements laid down in the standards: NEN-EN-ISO 9001:2015 and NEN-EN-ISO 14001:2015.

This states our total commitment to superior quality and environmental system management and our focus on customer requirements and needs, and organization-wide approach to continuous quality and environmental improvement in a way that contributes to sustainability.



REFERENCES

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



OPTIONS

ACTIVE COOLING SYSTEM

Automated water cooling of the press platens, controlled by electric valves. This way, the press can be deployed swiftly for upcoming tasks that need a lower temperature setpoint. Please note that the cooling system can be made compliant with ASTM D4703 (to achieve a 15°C/min cooling ramp) upon request.

CHROMATED BACKING PLATENS

When using higher temperature settings, the sample material may adhere to the platens. This can easily be prevented by using a set of chromated backing plates.

EXTENDED GUARANTEE & MAINTENANCE PLAN

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

TECHNICAL SPECIFICATIONS

LabTop		20	150	300
Max. closing force	kN	20	150	300
Platen size	mm	200x200	200x200	250x250
Specific pressure with full load	N/mm ²	0,50	3,75	4,80
Specific pressure with 150 x 150mm load	N/mm ²	0,88	6,66	13,32
Max. temperature	°C	300		
Daylight Refers to the opening between the upper and the lower platen	mm	175		
Mains voltage/amperage		230VAC 50 Hz / 16A		
Length x width x height	mm	930 x 490 x 840		
Weight	kg	230	230	285

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

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