

Automated Core Saturator



AUTOMATED CORE SATURATOR

Description:

This option is more sophisticated and offers more benefits to the end user. The apparatus needs the compressed air supply to build pressure on the chamber. It is equipped with a high-performance vacuum and liquid pump to evacuate and pressurize the core plug. The user-friendly software allows the operator to adjust the pressure level. Additionally, all valves, the vacuum pump, and the liquid pump are controlled by the software. Once the core plug is inside the chamber, the user must select the pressure level. The system will then automatically perform a series of works to saturate the core plug. The pressure level is measured by an accurate pressure transducer.

Specifications:

- ◆ Chamber diameter: 60 mm
- ◆ Chamber length: 300 mm
- ◆ Pressure rating: up to 2,500 psi
- ◆ Fluids: water, light oil, brine, solvents, and other liquids
- ◆ Sealing material: viton
- ◆ Automated system and digital pressure gauge
- ◆ Wetted material: stainless steel
- ◆ Actuator
- ◆ Very low evacuation level
- ◆ Power supply: 110-220 V/50-60 Hz, 1500 W
- ◆ Comes with developed PERM Inc. software to visualize the control panel and status of the pumps and actuators

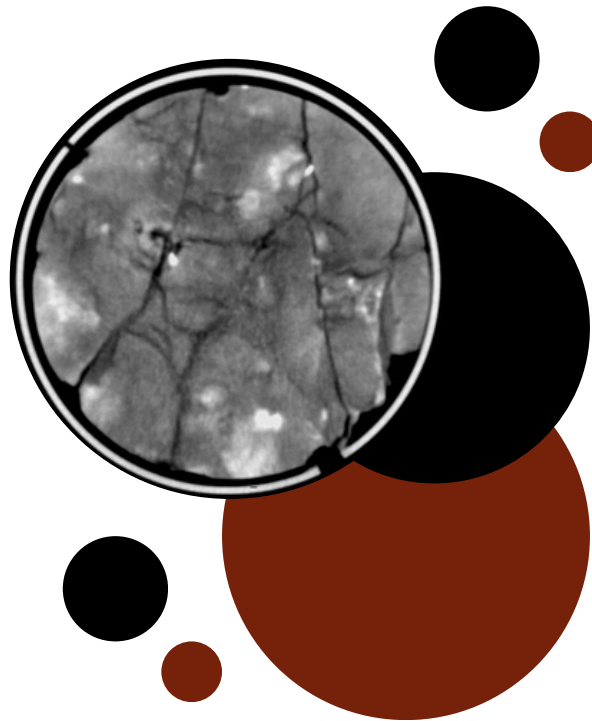
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Benefits:

- ◆ Fully automated unit, no need for user investigation
- ◆ Rapid saturation using a high-flow liquid pump
- ◆ Capable of saturating several core plugs simultaneously
- ◆ Set the pressure level and control the unit through the software
- ◆ Can be integrated with a balance for pore volume calculation

Possible Upgrades:

- ◆ Core holder capable of applying confining pressure (1.0 or 1.5 inches)
- ◆ Upgrade pressure rating to 5,000 or 10,000 psi
- ◆ Accumulator (more suitable for viscous fluids)



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