

Nákup vysokotlakého lisu

Parameters of high - pressure treatment equipment

Equipment designed to support Research Lab work on pasteurization and sterilization processes for the Food and Beverage industry. All parts are made out of non-corrosive materials (stainless steel).

High-pressure chamber volume 4 – 7 litres (ID min. 110 mm), provided with a temperature control jacket connected to the external conditioning unit. Provided with temperature transmitters connected to computer system.

Max. required working pressure 700 MPa.

Typical operating pressure range: 350-650 MPa.

Pressure build-up speed: in the range of 40 to 200 MPa/min, variable up to a minimum ramp rate of 40 MPa/min.

Principle to minimize pressure fluctuations.

Decompression System operable by both staff and fully automatic.

Temperature precision $\pm 2^{\circ}\text{C}$.

Measurable the temperature in the chamber.

Provided with temperature transmitters connected to computer system.

Liquid acting on sample: Circulated microbial filtered potable water, tempering the potable water before entering the device (temperature range 10 – 70 °C), sufficient pressure of the potable water for entering the secondary, i.e. high-pressure part.

Operating console with touch screen.

Computer control for ease of operation and data acquisition. (PC, OS Windows 11 Pro, Integrated TCP/IP connection for full service and remote operational support from supplier, Control Logic PLC with HMI, SCADA function Process set up min: time, pressures, temperatures, ramps, and dwells).

Graphic interface with process data displayed. Pressure (Decompression)& temperature Vs time graphic (and output plot).

LAN/modem Software update facility and remote diagnostic checks.

Alarm warnings. SIGNAL LIGHT - Indication of system status.

Three-phase electrical distribution 400 V / 50 Hz.

Maximum pressure protection

Overpressure/maximum pressure protection is arranged software wise.

The software is provided with maximum pressure protection.

Emergency shutdown button on control panel

If activated all controls automatically are set to a safe position.

Pump stop, bleed valve(s) open.

If reset, all controls still maintain safe start position.

Equipment is manufactured according to European regulations and will be delivered including:

Operating-, Maintenance- and Spare parts manual in the English language.

Test certificate.

Calibration certificate for gauge and / or recorder.

Documentation Test Certificates.

Maintenance instructions.

General Assembly drawings.

Spare parts list.

Warranty terms

24-month warranty from installation and operator training at the customer's workplace.

Time of delivery

1. Within 15 months from the signature of the contract for delivery of equipment to the seat of the contracting authority.
2. Within 17 months of signing the contract, installation, commissioning and operator training, but no later than 31 December 2025.