

# 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, ensuring 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.

Spares parts list.

### **Warranty terms**

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

### **Time of delivery**

Delivery by 31/10/2024. Installation and operator training at the customer's workplace by 31/12/2024 at the latest (travel and accommodation at supplier's expense).