

Reflexomat control unit RS 580/1 T for Reflexomat pressurisation units

Article number: 8880611



Features

Type	RS 580/1 T
Control type	Control Touch
Control unit	Adjoining
Max. perm. safety temperature	110 °C
Max. perm. operating temperature	90 °C
Pressure/temperature	6 bar 90 °C
Max. perm. operating pressure	6 bar
Max. sound pressure level	72 dB(A)
Type of protection	IP 54
Electric connection	400V/50Hz
Max. electrical rated power	4.10 kW
Height	921 mm
Width	636 mm
Depth	803 mm
Weight	84.00 kg

Description

Reflexomat

Pneumatic and control module for compressor-controlled Reflexomat pressurisation station for pressurisation and for make-up water control in sealed heating and chilled water systems. Constructed in compliance with DIN EN 12828 and the requirements of VDI 4708, with CE marking. Functional unit comprising a pneumatic part and a Control Touch operating unit. Both are ergonomically combined in an easy-to-maintain modular floor-standing framework system made of EV 1 anodized aluminium precision sections and with CE marking. In the pneumatic part, the pressurisation is implemented using a compressed air compressor in conjunction with a compressed air solenoid valve as an overflow device. A safety valve is provided to relieve pressure in the RG or RF secondary vessel to be connected. System pressure is measured by means of an electronic sensor. In the pneumatic section, pressure maintenance is achieved by means of a compressed air compressor in conjunction with a pneumatic solenoid valve acting as an overflow device. The system pressure is measured by an electronic sensor. Pneumatic section comprising:

- compressed air compressor
- component-tested pneumatic solenoid valve
- component-tested safety valve for pressure relief of the membrane expansion vessel
- electronic pressure sensor
- appropriate connecting pipes

The Control Touch control unit with TFT colour display, including communication electronics, is integrated into a robust plastic housing designed as a panel and mounted horizontally directly on the controller. An optional separate and vertical wall mounting at a maximum distance of three metres from the power electronics is possible. Communication electronics comprising:

- 4.3" resistive colour touch display for programming, operating documentation and monitoring, as well as the provision of help texts for all functions
- two RS485 interfaces as data and communication interfaces
- a serial TTL interface with two connection terminals for connecting 2 I/O circuit boards
- a potential free output for transmitting the group message
- two galvanically isolated analogue outputs, e.g. for system pressure
- an input for analysis of contact water meters
- Slot for a compact bus module, one SD card, e.g. for data read-out, software updates, etc.
- 230V output for connection of level-dependent makeup/degassing stations

The power electronics are mounted in a separate plastic control cabinet directly below the control unit. The voltage supply is provided via a main switch. Specifically comprising:

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- Main switch on the outside of the housing
- Compressor control
- Cable management for external connections
- Mounting space for optional modules Control unit fully assembled and ready for connection with appropriate wiring in accordance with VDE regulations

Control Touch is a fully automatic and freely programmable microprocessor control with touchscreen operation, real-time clock, differentiating error and parameter memory, combined graphical and clear-text display of system pressure, tank level and all relevant operating and fault messages, functional diagram, signalling of the active operating mode, collective fault message, low water level, functioning of the compressors, air solenoid valve and make-up valve.

Functioning of the pressurisation in the limits ± 0.1 bar including compressor monitoring. Controlled make-up, automatic interruption and fault message upon exceeding of the runtime and/or the number of cycles. Evaluation option provided by a contact water meter including optional possible capacity monitoring of ion exchangers in the make-up pipe. Documentation and control of the entire system in respect of the above mentioned parameters.

Constructed in compliance with DIN EN 12828 and the requirements of VDI 4708, with CE marking.