Reflexomat control unit RS 400/1 T for Reflexomat pressurisation units

Article number: 8880511

Thinking solutions.

Features

Type	RS 400/1 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	2.40 kW
Height	921 mm
Width	565 mm
Depth	670 mm
Weight	62.00 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 relief valve is included to act as a pressure safeguard for the RG primary tank or RF secondary tank. The system pressure is measured with an electronic sensor.In the pneumatic part, the pressurisation is implemented using one compressed air compressor in conjunction with a compressed air solenoid valve as an overflow device. The system pressure is measured using an electronic sensor. Pneumatic part comprising:

- Compressed air compressor
- Type-tested air solenoid valve
- Type-tested safety valve, for pressure protection of the diaphragm expansion tank
- Electronic pressure sensor
- corresponding connection lines

The Control Touch operating unit with TFT colour display inclusive of communications electronics is integrated in a panel-type rugged plastic housing and mounted directly on the control unit with a horizontal alignment. An optional separate and vertical wall mounting plate at maximum three metres distance from the power electronics is possible. Communication electronics comprising:

- 4,3" resistive colour touchscreen for programming, operating documentation and monitoring as well as provision of help texts for all functions
- Two RS485 serial interfaces as data and/or communication interfaces
- Serial TTL-interface with two connection terminals for connection of 2 IO-boards
- Potential-free output for forwarding of the collective message
- Two electrically isolated analogue outputs e.g. for system pressure
- Input for the evaluation 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 installed in a dedicated plastic control cabinet which is mounted directly below the operating unit. Power supply is via a main switch. Featuring in detail:

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- Main switch on housing exterior
- Compressor control
- Cable management for external connections
- Mounting slot for optional control unit modules completely assembled and wired ready for connection according to 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.