Reflexomat Silent Compact RSC Smart 200, compressor controlled pressurisation station, grey, 6 bar

Thinking solutions.

Article number: 8810200



Features

Type	RSC Smart 200
Colour	grey
Nominal volume	200 l
Max. useful volume	180 l
Max. permissible system temperature	110 °C
Max. perm. operating temperature	70 °C
Max. perm. operating pressure	6 bar
Max. p_0 setting	5.0 bar
Max. sound pressure level	59 dB(A)
Type of protection	IP 54
Connection	G1"
Electric connection	230V/50Hz
Max. electrical rated power	0.80 kW
##### ######## ### #####µ### ###µ##### Q	2000 kW
##### ######## ### #####µ### ##### Q	4000 kW
Diameter	634 mm
Height	1223 mm
High water connection	118 mm
Weight	52.40 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.Suitable for use in noise-sensitive areas. The function unit comprises a floor-standing expansion vessel, constructed in accordance with DIN EN 13831 and directive EU 2014/68/EU (EU-PED) with CE Marking, plus an attached control unit comprising a pneumatic system and a vertical, app-operated Control Smart control and operating unit. In the pneumatic part, pressure maintenance is implemented using a compressed air compressor in conjunction with a compressed air solenoid valve as an overflow device.
Expansion vessel:

- Floor-standing design with feet including transducer for vessel content measurement
- System connection with integrated compensator
- Butyl bladder
- Air-side inner chamber
- Fully plastic-coated exterior

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 Smart controller is integrated into a robust plastic housing, which houses both the power and communication electronics and the control panel with a dirt-resistant membrane keyboard. Bluetooth is integrated as standard as a communication interface. The controller features a fully automatic microprocessor controller with a timing function, a differentiated error and parameter memory, an LED display for operating modes and general error messages, and visualisation of the controller statuses for system pressure and all relevant operating and fault messages via the Control Smart app using Bluetooth communication.Communication electronics comprising:

- RS485 interface (galvanically isolated) for the connection of optional communication components
- Including Modbus RTU protocol

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- Floating output for forwarding of the group message
- Digital input for signal processing of a contact water meter
- 230V output for connection of level-dependent make-up/degassing stations
- Input for make-up functional request via external signal

Control Smart utilises a plug-and-play function for autonomous system pressure detection, enabling convenient wireless operation via an app for smartphones and tablets running iOS and Android, for simple commissioning and visualisation of system operation. The following functions are available:

- Intuitive and self-explanatory menu and operating guidance
- Automatic setting of the time and date
- Setting and adjustment of the minimum operating pressure p0
- Status, warning and error displays for system pressure and operating status, including diagnostic information and recommended actions
- Quick and easy commissioning (commissioning wizard)
- Customisable parameterisation
- Maintenance and troubleshooting wizard
- Automatic software updates for the system control unit

Safety- and function-critical parameters are protected against unauthorised access.Control unit completely assembled and ready for connection wired according to VDE regulations, mains power cable and mains plug.
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.