

Servitec 35/T, self-optimising vacuum-spray tube degassing with make-up

Article number: 8832100



Features

Type	35/T
Max. system volume	220 m ³
Max. system volume glycol	50 m ³
Max. perm. operating temperature	90 °C
Max. perm. operating pressure	8 bar
Operating pressure	0.5 - 2.5 bar
Minimum inlet pressure makeup	0.10 bar
Max. sound pressure level	55 dB(A)
Electric connection	230V/50Hz
Pressure side connection	G1"
Connection outflow side	G 1/2"
Make-up connection	G 1/2"
Separation level, dissolved gases to	90 %
Max. partial volume flow network	0.550 m ³ /h
Max. volume flow makeup	0.350 m ³ /h
Rated electrical current	5.00 A
Max. electrical rated power	0.85 kW
Height	965 mm
Width	569 mm
Depth	486 mm
Weight	34.40 kg

Description

Servitec

Vacuum spray-tube degassing system for system and make-up water degassing in sealed heating water and cooling circuits, configured as a fully automatic multi-function unit with "auto-start" function and automatic hydraulic compensation of the degassing process as well as control and monitoring of the make-up water function. Suitable for the media water and water / glycol mixtures up to a mixing ratio of 50/50%.

Functional unit comprising a hydraulic 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 with CE marking.

Degassing takes place within the hydraulic part using a stainless steel diaphragm pump in conjunction with a vertically arranged stainless steel vacuum spray tube. This is equipped with a vacuum spray nozzle, dipstick-tube degassing unit and pressure/level monitoring.

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.

- Input for makeup functional request via external signal

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:

- Main switch on housing exterior
- Pump control
- Cable management for external connections
- Mounting slot for optional modules

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Thinking solutions.

Control unit completely piped and wired ready for connection according to VDE regulations. System connections by means of integrated shut-off valves.

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 with functional diagram. Signalling of the active operating mode, collective fault message, low water level and functioning of pump and make-up valve.

Vacuum spray degassing of the content, filling and make-up water in self-optimising operation with cycles for continuous, interval and make-up degassing. Controlled make-up via reliable two-way motorised ball valve. Actuation takes place via an integrated system pressure interpretation unit or an external 230 V signal (e.g. a pressurisation station) with automatic interruption and fault messaging upon exceeding of the running time and/or the number of cycles. Alternatively, make-up can be performed from an open system separator vessel. 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.