

# Servitec 75, self-optimising vacuum-spray tube degassing with make-up



## Features

Type	75
max. system volume	220 m <sup>3</sup>
Max. system volume glycol	50 m <sup>3</sup>
max. perm. operating temperature	90 °C
operating pressure	1,3 - 5,4 bar
Max. perm. operating pressure	10 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 <sup>3</sup> /h
Max. volume flow makeup	0,550 m <sup>3</sup> /h
Rated electrical current	6,80 A
Max. electrical rated power	1,10 kW
Height	1150 mm
Width	573 mm
Depth	672 mm
Weight	50,60 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 Basic 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. 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 Basic control unit is integrated in a robust plastic housing in which both the power and communication electronics and the control panel with dirt-resistant membrane-covered keyboard is housed. Control Basic is a fully automatic, freely configurable microprocessor control with real-time clock, differentiating error and parameter memory, two line plain text display for system pressure and all relevant operating and fault messages, LED display for operating modes and general error messaging. Communication electronics comprising:

- RS 485 port as data interface or for the connection of optional communication components
- Potential-free output for the forwarding of the collective message
- Digital input for signal processing of a contact water meter
- Input for makeup functional request via external signal

Control unit completely assembled and wired ready for connection according to VDE regulations, mains power cable and mains plug, system connections by means of integrated shut-off valves.

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.