

**Reflex Servitec Magcontrol 75/90,
vacuum spray deaeration/make-up unit
Article-No.:8825300**



Reflex Servitec,
vacuum spray tube degassing unit with
integrated automatic refill for closed
heating or chilled water circuits which
are equipped with pressurization units
as well as installations with static
precharged expansion vessels.

Active and central degassing of the
installation according to the principle
of vacuum spray tube degassing.

Unit existing of a hydraulic part and a
Reflex Control Basic operating unit.
It is featuring an "auto-setup" function
including a selfoptimizing operation.
The deaerator eliminates entirely the
free gases in the installation and
withdraws up to 90% of the dissolved
gases of the installation water.

The vacuum degassing of a partial flow
of the installation water is processed
according to an optimised time schedule
with selectable degassing programmes.
After a period of continuous degassing
(adjustable and depending on the instal-
lation volume) at the start up, the
control switches automatically to an
economic mode (interval degassing).

The floor standing (wall mounting possi-
bility for type 35 only) hydraulic com-
ponent is standard provided with a
discharge and with isolating lockshield
ball valves on all connection pipes.
Both the inlet line equipped with a
strainer and the supply for the inte-
grated automatic water make-up are
connected to a three-way electrically
actuated fail safe ball valve.

Possibility to connect the make-up
supply to the water mains or to a break
tank (eventually also for glycol
mixture make-up). The vacuum spray tube,
which has an optimal diameter/height
ratio, is manufactured from stainless
steel and has EC approval mark.

The multistage pump discharge is
connected to a modulating electrically
actuated ball valve with position opti-
misation through the microprocessor
control.

The Reflex Control Basic is integrated
in a sturdy pre wired plastic cabinet
which has IP 54 protection class and
in which all electric and electronic
components are integrated. The control

panel is consisting of a display
and a membrane keyboard which is insensi-
tive to dirt.

The Control Basic is a fully automatic
freely programmable microprocessor
control unit. On the two-line LCD screen,
operation mode, failures and system
pressure are indicated in plain text.
(16 language display).

Also two function-LED indicate the
unit to be in automatic mode and mal-
function. The control features a
parameter- and error memory. This way
it is possible to display in chrono-
logical order the last 20 error
messages with indication of date and
time.

The control as standard is provided with:

- RS 485 Interface
for transfer of complete operation infor-
mation to a BMS e.g. by use of a bus
module or for data exchange between
multiple Reflex control units
- a volt free output for common fault
message.
- an input terminal for evaluation of a
contact water meter pulse

The control is reading the system
pressure via a pressure transducer-

The degassing of a partial flow of the
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ing to an optimised time schedule with
selectable degassing programmes. After
a period of continuous degassing
(adjustable and depending on the instal-
lation volume) at the start up, the
control switches automatically to an
economic mode (interval degassing).

When the water make-up is activated,
error message will be triggered if the
water make-up cycle goes over a time
limit and/or if the number of make-up
cycles is exceeded over a given period.

This will result in an error message in
both cases and interruption.

In case the water supply line is fitted
with a contact water meter, also the
total added water volume is indicated on
the display and an error message is
activated in the event of overshooting
the maximum make-up volume (added up).
This is also the case when the established

input make-up quantity is exceeded against
an input volume in one filling cycle,
or if the make-up system because of
malfunction lets water through without
being activated by the control.

Documentation and monitoring of the
connected HVAC-system with respect to
the above-mentioned parameters.

The microprocessor control is mounted
in a pre-wired cabinet which has IP 54
protection class. On the LCD screen
operation mode, failures and system
pressure (only in case of installations
equipped with traditional vessels) are
indicated in plain text.

Also two function-LED indicate the
unit to be in automatic mode and mal-
function. The control features a
parameter- and error memory. This way
it is possible to display in chronologi-
cal order the last 20 error messages
with indication of date and time.

The control as standard is provided
with a volt free output for common
fault. Via a RS485 cable interface
(option) it is possible to transfer
complete operation information to a BMS.

The unit is delivered fully assembled
and ready for operation in chilled water
and heating installations. The integra-
tion of additional pressure transducers
in order to control the automatic water
make-up is not required. When the water
make-up is activated, error message will
be triggered if the water make-up cycle
goes over a time limit and/or if the

Reflex Winkelmann GmbH

Gersteinstraße 19 • 59227 Ahlen, Germany • Postfach 2261 • 59210 Ahlen, Germany • Tel.: + 49 2382 7069-0 • Fax: + 49 2382 7069-588 • www.reflex.de

Geschäftsführer: Norbert Hülsmann, Volker Mauel

USt.-Ident-Nr.: DE 178 726 058 • Steuer-Nr.: 304/5987/2077 • Handelsregister: Amtsgericht Münster • HRB 13297, Sitz: Ahlen

number of make-up cycles is exceeded over a given period. This will result in an error message in both cases and interruption.

In case the water supply line is fitted with a contact water meter (option only possible for units equipped with RS485 interface), also the total added water volume is indicated on the display and an error message is activated in the event of overshooting the maximum make-up volume (added up). This is also the case when the established input make-up quantity is exceeded against an input volume in one filling cycle, or if the make-up system because of malfunction lets water through without being activated by the control.

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Merkmale

Type: 75/90

adm. excess oper. press.: 10 bar

adm. operating temp.: >0..90 °C

adm. ambient temp.: >0..35 °C

sound level: < 55 dB(A)

power supply: 220 V/ 50 Hz

electr. power cons.: 1,1 kW

electr. nominal curr.: 6,8 A

depth x width x height (mm): 525/600/1215

empty weight: 39 kg

connections pressure-side: G 1

flow-off side: Rp 3/4

make-up: G 1/2

elimin. degree of dissolved gases: up to 90 %

part. vol.flow netw. up to: 0,55 m³/h

make-up volume flow up to: 0,55 m³/h

min. flow press. make-up: 1,3 bar



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