

**Reflexomat RS 300/1 control unit,  
for Reflexomat pressurization unit  
Article-No.:8880411**



Reflexomat RS -1 control unit, for single compressor pressurization units with auxiliary possibility of monitored automatic water make-up for central heating and chilled water systems.

The device is built according to EN 12828 and is provided with the EC marking.

**Construction:**

Unit existing of a pneumatic part and a Reflex Control Touch operating unit.

Both are incorporated in a floor standing modular frame in an ergonomic way allowing easy maintainance.

The pneumatic part of the pressurization unit is provided with an oil free air compressor in conjunction with a solenoid valve as an air discharge.

The system pressure is measured by way of an electronic pressure sensor.

**Pneumatics:**

- oil-free air compressor
  - TÜV component-approved solenoid air discharge valve
  - electronic pressure sensor
  - pneumatic connecting hoses
- The control unit is delivered fully assembled.

The Reflex Control Touch operating unit

is designed as a control panel featuring a TFT colour display which is integrated in a sturdy plastic cabinet (IP 54 protection class). As standard directly mounted on the hydraulic unit but is offering the optional possibility for wall mounting.

**Communication facilities consisting of:**

- 4.3" resistive colour touchscreen,
- two RS485 interface provisions for data exchange and BMS connection,
- TTL serial interface with two terminals for simultaneous operation of two Reflex IO-Modules,
- voltage-free output for common fault signalling,
- two electrically isolated analog outputs for system pressure and water content of the expansion vessel,
- slots for Bluetooth module, KNX bus module, HMS Network module and SD card e.g. for software updates, data saving etc.,
- input terminal for the evaluation of a contact water meter pulse.

The power electronics are installed in a dedicated cabinet which is mounted on the panel console.

**Featuring in detail:**

- Main power switch on the cabinet exterior,
- Compressor control,
- Facilities for wiring arrangement and

easily made connection,  
-Available space for additional modules.

Control Touch is a fully automatic and freely programmable microprocessor control with touchscreen operation. Displayed on a functional diagram are the active operating mode, common alarm, low water level, functioning of compressor, air discharge valve and make-up valve. Combined graphical and plain text indications for system pressure, content of the expansion vessel and all relevant operating and error messages. The control features a parameter and error memory. This way the last 20 error messages can be chronologically displayed with indication of date and time of occurrence.

The control is provided with a 230 V output offering the possibility to activate an external water make-up system. 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.

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

**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

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**Merkmale**

Type: RS 300/1

Compressor assembly: nebenstehend

Sound level: < 76 dB(A)

Power supply: 400 V/50 Hz V/Hz

Height/width/depth: 920/385/630 mm

Weight control box/compressor: 7/ 44 kg



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