

Turbo MAG®
Scale Protection
Typ: Simplex

Application

Environmentally friendly scale control system (without the use of salt or chemicals) for a save prevention of scale deposits in every kind of drinking and process water installation.

The scientific proven way of function bases on the cathodically induced crystal inoculation formation. To realize the maximum efficiency and a long lifetime of the active conditioning unit, the system is set automatically to the consumption conditions and the water quality of the drinking water to be treated. The unit has been conducted a successful performance test according to DVGW worksheet W-512.

Design

Single Turbo **MAG®** drinking water treatment unit to be installed in the local mains water pipe. The micro processor control must be mounted locally at the wall next to the Turbo **MAG®** unit.

The compact unit consisting of the water treatment filter with integrated conditioning module. The unit can be dismantled for a simple module replacement. A non-return valve to avoid backwater is provided at the input of the system.

Micro processor control equipped with graphic display and optical as well as acoustical fault signal (programmable).

Monitoring of all relevant data and operating parameters such as operation, fault, remaining capacity, module replacement, water flow and treatment intensity.

Clear menu navigation and operating hour counter for „mains on“ and „treatment active“.

Control of:

- Flow
- Temperature and conductivity (Option)

Automatic optimization of the treatment intensity dependent on the actual water and operation conditions. Automatic initialization, continuous self-monitoring, automatic reset in case of reversible faults.

Connection to BMS via potential-free fault signal contact possible. Integrated interface for remote-query of the process parameters and the operating data with GSM modem. (Option).



Scope of supply

Turbo **MAG®** consisting of:

- 1 x Water treatment unit of stainless steel and POM material
- 1 x Conditioning (treatment) module
- 1 x Non-return valve of plastic
- 1 x Discharge valve 1/2" of chromium plated brass
- 1 x Flow rate controller
- 1 x Conductivity/Temperature sensor (Option)
- 2 x Connection screw 1"
- 1 x Micro-processor control in a splash-proof plastic housing for wall construction
- 1x GSM-Modem (Option)
- 1x Operation manual

Certificates

CE-mark
 WRAS approval
 Performance test according to DVGW worksheet W 512

Notes / Installation conditions

- Technical data and general technical standards as well as the local installation conditions are to be guaranteed.
- Installation of Turbo **MAG**® according to DIN 1988 part 2.
- The ambient temperature and possibly the radiation heat may not exceed 40°C.
- The place of installation has to be resistant to frost.
- The installation site has to be free from solvents, color-, lacquer and chemical fumes.
- For protection against unwanted incoming materials from the previous connected pipework, there has to be installed a fine filter generally.
- A drain shall be provided for backwash water.
- No traction-, pressure- or torsion forces may act and apply to the in- or output connection.
- Free access to the unit must be ensured.
- A connection for the micro-processor control (230 V / 50 Hz) shall be provided next to the system.

Technical Data

Pipe connection:	DN 25 (1" male)
Nom. flow:	4.2 m³/h
Pressure drop at nom. flow	0.8 bar
Water temperature min./max.:	5 / 30 °C
Ambient temperature: min./max.:	5 / 40 °C
Operating pressure max.:	10 bar
Mains connection:	230 V / 50 Hz
Protection type:	IP 65
Power consumption	
- whilst water treatment:	25 Watt
- in Stand-by:	7.5 Watt

Water treatment unit

Height:	540 mm
Width:	328 mm
Depth:	250 mm

Micro processor in wall casing

Height:	240 mm
Width:	265 mm
Depth:	145 mm

