

## MOUNTING INSTRUCTIONS

### EWO® ACTIV 1" Midi



#### APPLICATION

Der EWO® ACTIV 1" Midi is the natural and chemical-free method for sustainable, standard-compliant heating and cooling water stabilization. A continuous and permanent function is given (requirement: regular anode replacement)

**EWO® ACTIV must not be installed in systems with water-contacting aluminum materials, water-antifreeze mixture or corrosion protection inhibitors.**

#### FUNCTIONALITY

EWO® ACTIV 1" Midi works with:

- + Magnesium anode technology
- + Magnetic- and sludge separator
- + EWO® water optimization

The magnesium anode as the less noble material dissolves over time.

Thanks to the EWO® water optimization, the heating water remains stable in the long term.

The magnetic and sludge separator removes or separates corrosion residues or magnetically reactive parts from the heating water.

#### PRE-CONDITIONS FOR INSTALLATION

Local installation regulations, general guidelines and technical data must be noted.

The installation location must be frost-proof and ensure protection against chemicals, dyes, solvents, vapors and environmental influences.

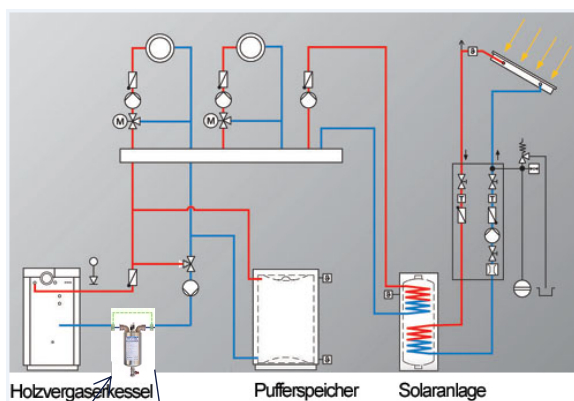
The EWO® ACTIV is not suitable for the separation of oils, greases, solvents, soaps, other lubricants and water-soluble substances.

The heating system must be flushed, filled and installed in accordance with Austrian Standard ÖNORM H5195-1. In Germany, the regulations of VDI 2035 and those based on the recommendation of DIN EN14336 apply analogously.

## MOUNTING INSTRUCTIONS

Before installing EWO® ACTIV, the heating water must be analyzed and any necessary measures implemented (for old systems)

- ❑ horizontal mounting between shut off devices in heating return (shut-off devices for anode exchange and cleaning of magnetic separator)
- ❑ take sufficient space to exchange the anode and for cleaning the magnetic separator
- ❑ use neutral junctions made of brass, red brass or stainless steel for device connection
- ❑ ACTIV has no certain flow direction
- ❑ keep at least 50cm distance (linear distance) to electrical equipment, e.g. pumps (distance to electrical and electromagnetic fields)
- ❑ remove cap nut at the anodes after installation and immediately screw enclosed color capsule (consumption display) hand tight (approx. 4-5Nm)
- ❑ **it is imperative to install the enclosed electrical bridging (earthing clamps + cables) (see picture below)**



example

EWO® ACTIV



**Install electrical bridging!!**

### Note mounting procedure:

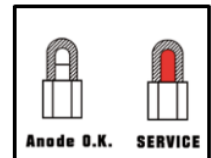
1. seal red brass bends
2. mount EWO® ACTIV 1" Midi in the heating return
3. mount magnesium anodes
4. screw magnetic rod (in the middle) hand tight
5. screw color capsule (consumption display) (rubber seal – only hand tight, approx. 4-5NM)
6. mount discharge valve
7. install electrical bridging on a suitable position

### Change of magnesium anode:

It is only necessary to replace the anode when the color capsule turns **red**.

**Measure the pH-value in the heating water before replacing the anode.**

If this is in the optimal range (9.5 – 10 for unalloyed steel), no anode replacement is required. Afterwards, the pH-value has to be checked every 2 years.



The magnesium anode corresponds to EU standard 12438.

Depending on water quality and operating conditions, the service life is approx. 2 years.

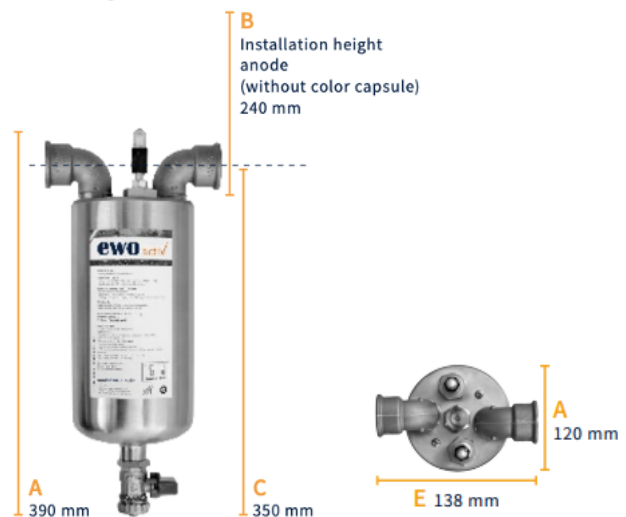
1. Close shut-off valves before and after EWO® ACTIV 1" Midi
2. Briefly open the drain valve to relieve the pressure
3. Unscrew the magnesium anode
4. Screw in the new magnesium anode
5. Refill the flushed out water
6. Open shut-off valves before and after EWO® ACTIV 1" Midi

### TECHNICAL DATA

EWO® ACTIV 1" Midi		
Dimension	inch	1"
Nominal width	DN	25
Max. operating pressure	bar	10
Operating temperature	°C	1 - 90
Flow rate $\Delta p$ 0,1bar	m <sup>3</sup> /h	4,6
Flow rate $\Delta p$ 0,2bar	m <sup>3</sup> /h	6,6
Weight	kg	6
Anodes	pcs.	1
Magnetic separator	pcs.	1

### EWO Activ 1" Midi

for 400 - 1.200 liters system volume  
1 PCS. magnesium-anode



## OPERATION & MAINTENANCE

### Duration magnesium-anode

Depending on the water quality and operating conditions, the magnesium anode has a service life of approx. 2 years. An exchange is necessary if the color capsule (consumption indicator) turns completely red.

### Magnetic- and sludge separator

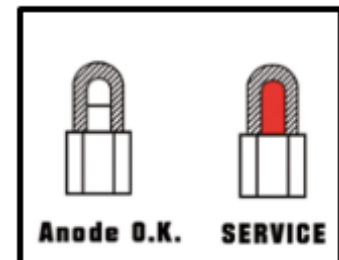
Regular cleaning and rinsing is required (at least once a year) and can e.g. be carried out in the course of boiler maintenance.

### Filling- und top-up water

With demineralized water (mixed bed or osmosis) or with softened water, whereby the chloride, nitrate and sulfate content must be observed.

### Heating-water analysis

Initial analysis at the earliest after 3 months of operation. Subsequently according to the recommendations of the relevant standards.



## SCOPE OF DELIVERY

- 1 EWO® ACTIV 1" Midi with thread
- 1 magnesium anode
- 1 magnetic separator
- 1 drain valve
- 2 red brass bends 90°
- 1 electrical bridging (cable and clamps)
- 1 mounting instructions

## WARRANTY

The latest version of the national statutory warranty provisions apply.

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