MOUNTING INSTRUCTIONS
EWO® ACTIV 5/4" to DN65

APPLICATION

Der EWO® ACTIV 5/4" – DN65 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 5/4" – DN65 works with:
+ Magnesium anode technology
+ Magnetic- and sludge separator
+ EWO® water optimization

The magnesium anodes 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

In the case of an existing system, an analysis of the existing heating water must be carried out before installation and any necessary measures must be implemented.

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

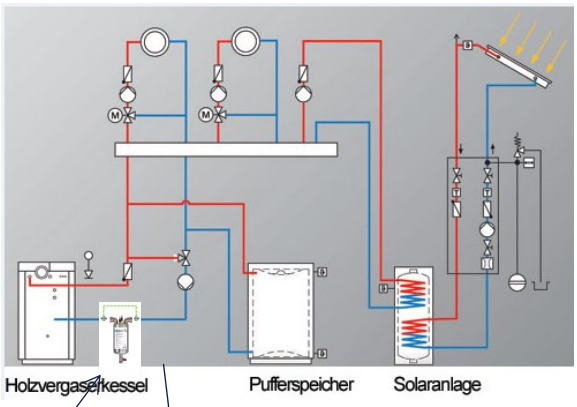
The installation location must be frost-proof and ensure protection against chemicals, dyes, solvents, vapors and environmental influences.
The EWO® ACTIV is not suitable for the separation of oils, greases, solvents, soaps, other lubricants and water-soluble substances.

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.

When using the EWO® ACTIV technology, no chemical additives, agents for increasing the pH value or chemical corrosion protection agents may be used.

MOUNTING INSTRUCTIONS

- ☐ 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

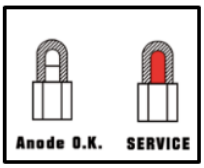
EWO® ACTIV

Install electrical bridging!!

Note mounting procedure:

1. Seal red brass bends (DN65 flange)
2. Mount EWO® ACTIV 5/4" – DN65 in the heating return
3. Mount magnesium anodes
4. Screw magnetic rod (in the middle) hand tight
5. Screw color capsules (consumption displays) (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 servicel life is approx. 2 years.

1. Close shut-off valves before and after EWO® ACTIV 5/4 – DN65
2. Briefly open the drain valve to relieve the pressure
3. Unscrew the magnesium anode(s)
4. Screw in the new magnesium anode(s)
5. Refill the flushed out water
6. Open shut-off valves before and after EWO® ACTIV 5/4" – DN65

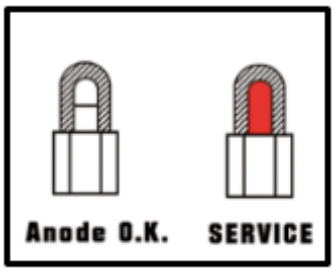
TECHNICAL DATA

EWO® ACTIV 5/4" – DN65		TECHNICAL DATA									
Dimension	inch	5/4" Mini Midi	5/4" Maxi	6/4" Mini Midi	6/4" Maxi	2" Mini Midi	2" Maxi	2 ½" Mini Midi	2 ½" Maxi	DN65 Mini Midi	DN65 Maxi
Nominal width	DN	32	32	40	40	50	50	65	65	65	65
Max. operating pressure	bar	10									
Operating temperature	°C	1 – 90									
Flow rate Δp 0,1bar	m³/h	7,2	7,2	10,3	10,3	18,4	18,4	28,7	28,7	28,7	28,7
Flow rate Δp 0,2bar	m³/h	10,3	10,3	14,8	14,8	26,4	26,4	41,2	41,2	41,2	41,2
Weight	kg	9	9	14	14	18	18	19	19	22	22
Anodes	pcs.	1	2	1	2	1	2	1	2	1	2
Magnetic separator	pcs.	1									

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 5/4" – 2 ½" with thread (DN65 with flange)
2 magnesium anodes
1 magnetic separator
1 drain valve
2 threads (5/4" – 2 ½") or red brass bends (DN65)
1 electrical bridging (cable and clamps)
1 mounting instructions

WARRANTY

The latest version of the national statutory warranty provisions apply.

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