

## MOUNTING INSTRUCTIONS

### EWO® VITAL for heating systems



#### APPLICATION

Unnatural conditions in circuits create deposits that can lead to technical problems as well as increasing energy and maintenance costs.

The EWO® VITAL supplies heating circuits with optimized water. This can counteract deposits and silting.

A continuous and permanent function is given.

#### FUNCTIONALITY

Vital works with the **3 mechanisms of the EWO method**:

- + turbulence
- + information transfer
- + magnetism

#### 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.

**MOUNTING INSTRUCTIONS**

- horizontal or vertical mounting in heating return, **always on the pressure side**
- floor and/or wall heating: mounting always in the flow
- mount in mixed heating systems (radiator/floor heating) in the floor circuit
- use neutral junctions made of brass, red brass or stainless steel for device connection
- EWO® VITAL has no certain flow direction
- keep at least 50cm distance (linear distance) to electrical equipment, e.g. pumps (distance to electrical and electromagnetic fields)
- ensure good potential equalization in the boiler room
- provide calming section after mounting spot
- do not put live cables on or around water pipes
- the device must not touch damp walls or floors
- it is imperative to install the enclosed electrical bridging (earthing clamps + cables)**



example

**Note the mounting procedure:**

1. mount EWO® VITAL into pipe system
2. install electrical bridging at a suitable position

## TECHNICAL DATA

EWO® VITAL		TECHNICAL DATA										
Dimension	Inch	3/8"	1/2"	3/4"	1"	5/4"	2"	DN65	DN80	DN100	DN150	
Nominal size	DN	10	15	20	25	32	50	65	80	100	150	
Max. water pressure	bar	10										
Operating temperature	°C	1 – 90										
Flow rate $\Delta$ 0,1bar	m <sup>3</sup> /h	0,7	1,2	3,4	4,8	7,5	19	30	43	77	172	
Flow rate $\Delta$ 0,2bar	m <sup>3</sup> /h	1	1,8	4,6	7,1	11	28	44	64	114	256	
Total length	mm	80	100	150	160	200	235	324 incl. flange	330 incl. flange	370 incl. flange	550 incl. flange	
Diameter	mm	35	56	70	80	115	133	185	200	220	285	
Weight	kg	0,2	0,5	1	1,4	2,7	4,8	12,5	16,3	20,8	43	
Boiler output	kW	n.A.	<50	<50	>50	>100	<500	>500	>500	<1.000	>1.000	
Heating system volume, approx.	m <sup>3</sup>	n.A.	2	2	3	4	5	8	10	20	40	
Calming section	cm	10	10	10	20	25	30	30	35	40	50	

## OPERATION & MAINTENANCE

Vital is maintenance free.

## SCOPE OF DELIVERY

- 1 EWO® Vital with thread or flange (depending on device size)
- 1 electrical bridging (earthing clamps + cables)
- 1 installation instructions

## WARRANTY

The latest version of the national statutory warranty provisions apply.

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