

Series MH

the balancing system for radiant heating





Why hydraulic balancing?

During operation of a radiant heating system, the working conditions change and require an ongoing re-adjustment to guarantee optimum and energy efficient operation. Therefore the system requires constant balancing of the individual loops which often consist of differences in length and diameter, which results in different pressures and flows.

A static balancing device helps to adjust the system to the design point during the highest demand.

A dynamic balancing device provides best performance in all conditions.

**Easy set-up
in 3 steps**

**Constant flow rate
in each heating
loop**

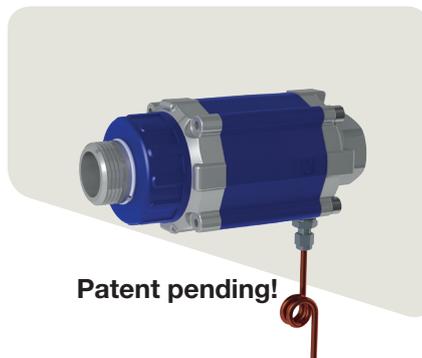
**Energy savings
and comfort**

**Reliable
performance**

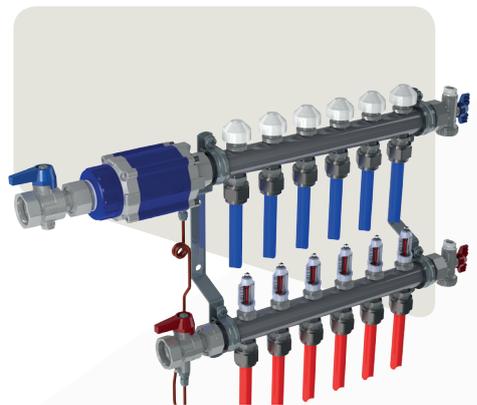
**Robust and
compact design**

Retrofit solution

Solution by Watts: a «magic balancing»



Patent pending!



Operating principle:

Series MH is a device for hydraulic adjustment of radiant heating systems, combining both, static and dynamic balancing principles

How it works:

- flow rate set in each individual heating circuit will be maintained constant;
- actual flow can be read out on the flow meters integrated in the manifold.

Series MH is a solution for time and cost saving installation in floor heating.



Key features and benefits



Easy set up

Easy and time saving hydraulic balancing in 3 steps:

- 1) start up: unbalanced loops
- 2) set up the worst loop flow
- 3) set up all the other flows

Constant flow rate:

Series MH will maintain the pressure drop on the manifold constant, thus ensuring constant flow rate in each heating loop.

Energy savings and comfort

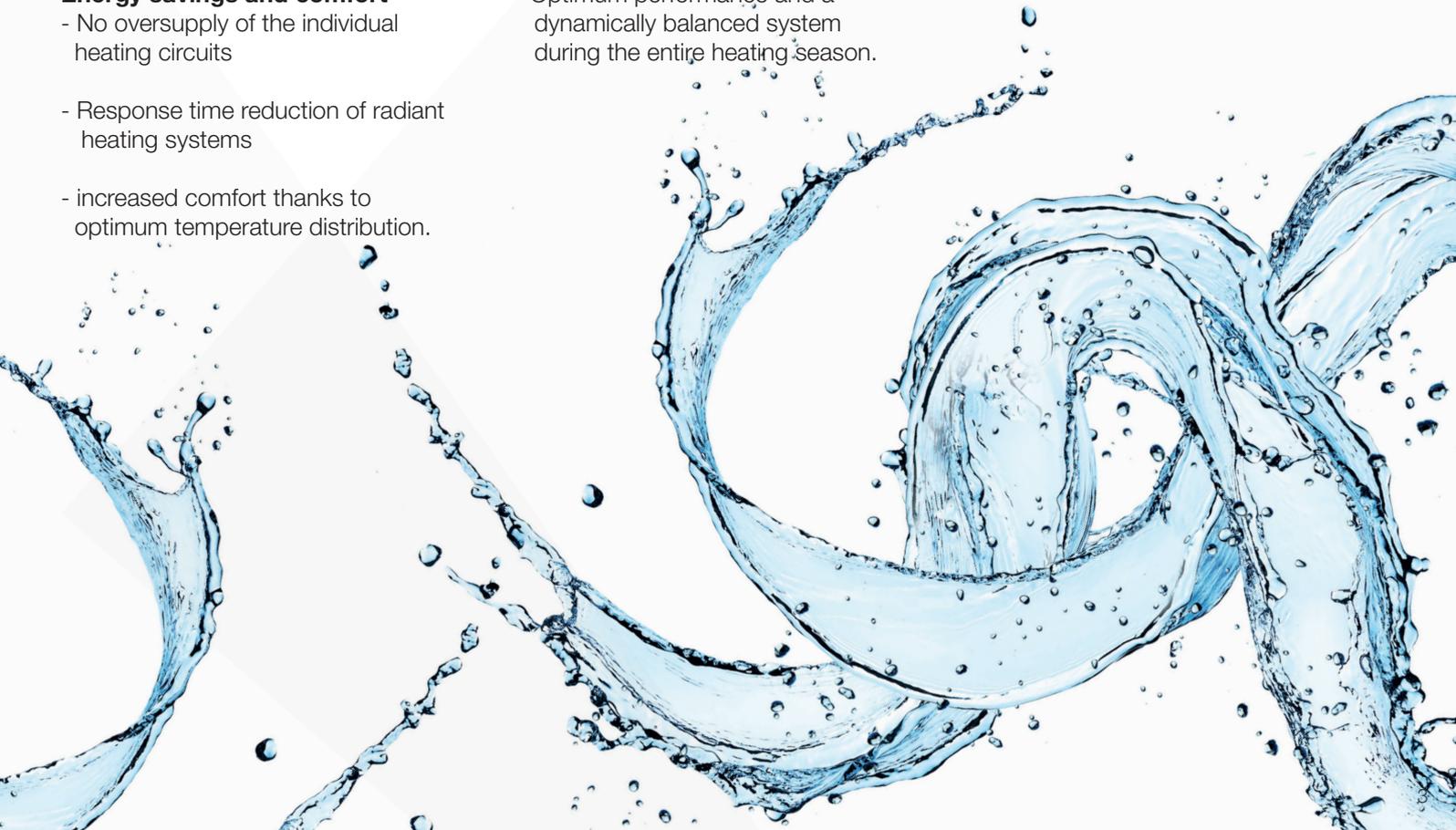
- No oversupply of the individual heating circuits
- Response time reduction of radiant heating systems
- increased comfort thanks to optimum temperature distribution.

Reliable performance

- Consulting engineer designs the system
- System is installed and commissioned based on design set-points
- The heating system operates in part-load during most of its operation, which leads to uncontrolled system performance
- Optimum performance and a dynamically balanced system during the entire heating season.

Retrofit solution

- Balancing
- Eliminate room temperature fluctuation
- Manage comfort
- Avoid noise
- Filling and flushing without risks





Optimization of heating system results in energy saving between 17 and 26%*.

(*Source: Optimus Study-Germany
www.optimus-online.de/pdf/Kurzbericht-Technik.pdf)

Robust and compact design

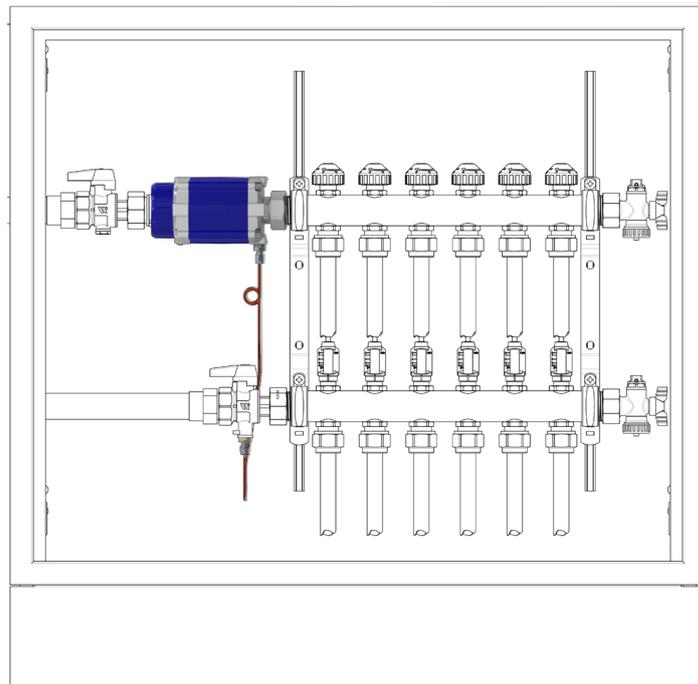
Connection: G1" on return manifold
 PN=8 bar
 Δp setting range=20-55 kPa
 Max Δp =2 bar
 Temperature range=5-80°C
 Easy to set-up
 Locked pressure setting ring
 Compact dimensions

Retrofit solution

Series MH is an optimum product for retrofitting of installed systems, resulting in energy savings.

Product range

Type	Part no.	Dn	Adjustment range	Weight (g)
Series MH	MH001WB	G 1"	20-55KPA	1200



WATTS®

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