



## DynaTemp CW-BS

The efficient solution for  
potable water circulation



# Potable water hygiene?

## Safely and automatically controlled.

With our DynaTemp system solution, you can *ensure the hygiene of potable water systems* in large buildings such as hospitals, retirement homes or apartment buildings. And it's *reliable and simple* – because the DynaTemp CW-BS system ensures that there is always a sufficiently high potable water circulation temperature (according to DVGW 57°C) in the system.

In addition, our system can support *thermal disinfection*. It gives a start signal to the heat generator, which first increases the potable water temperature. Then the pipelines of the circulation system are sequentially raised to the set disinfection temperature.

You can integrate the *perfectly coordinated system* into an existing building automation system via BACnet IP, for example for monitoring and visualisation tasks or to trigger warnings.

### A perfectly coordinated system for optimal potable water hygiene



#### WHY AUTOMATE POTABLE WATER HYGIENE? MORE SAFETY THROUGH ...

- + ... *sufficient potable water circulation* in the entire system
- + ... *maintaining the required potable water circulation temperature* – in accordance with the country standard
- + ... *permanent hydronic balancing* in all operating phases
- + ... *continuous monitoring* and regulation of the temperature
- + ... *saving and logging the measurement data* and all hygiene measures carried out
- + ... the option to perform *controlled thermal disinfection*
- + ... a *broad data basis* to be able to assess the condition and risks of the system



#### ADVANTAGES FOR OPERATORS

- + *High safety* through continuous monitoring and regulation of the system temperatures
- + System *automatically alerts* in case of malfunctions
- + Optimisation of the system through *early detection of weak points*
- + *Energy-efficient temperature control* and *permanent monitoring* of the system



#### ADVANTAGES FOR INVESTORS

- + *Meets all legal requirements* for hygiene and the obligation to provide evidence
- + *High safety* due to permanent compliance with the legal temperature limits and their logging
- + *Minimises cost risk* through early detection of problems in the system
- + *Clear dashboards* on system status



#### ADVANTAGES FOR CONSULTANTS AND INSTALLERS

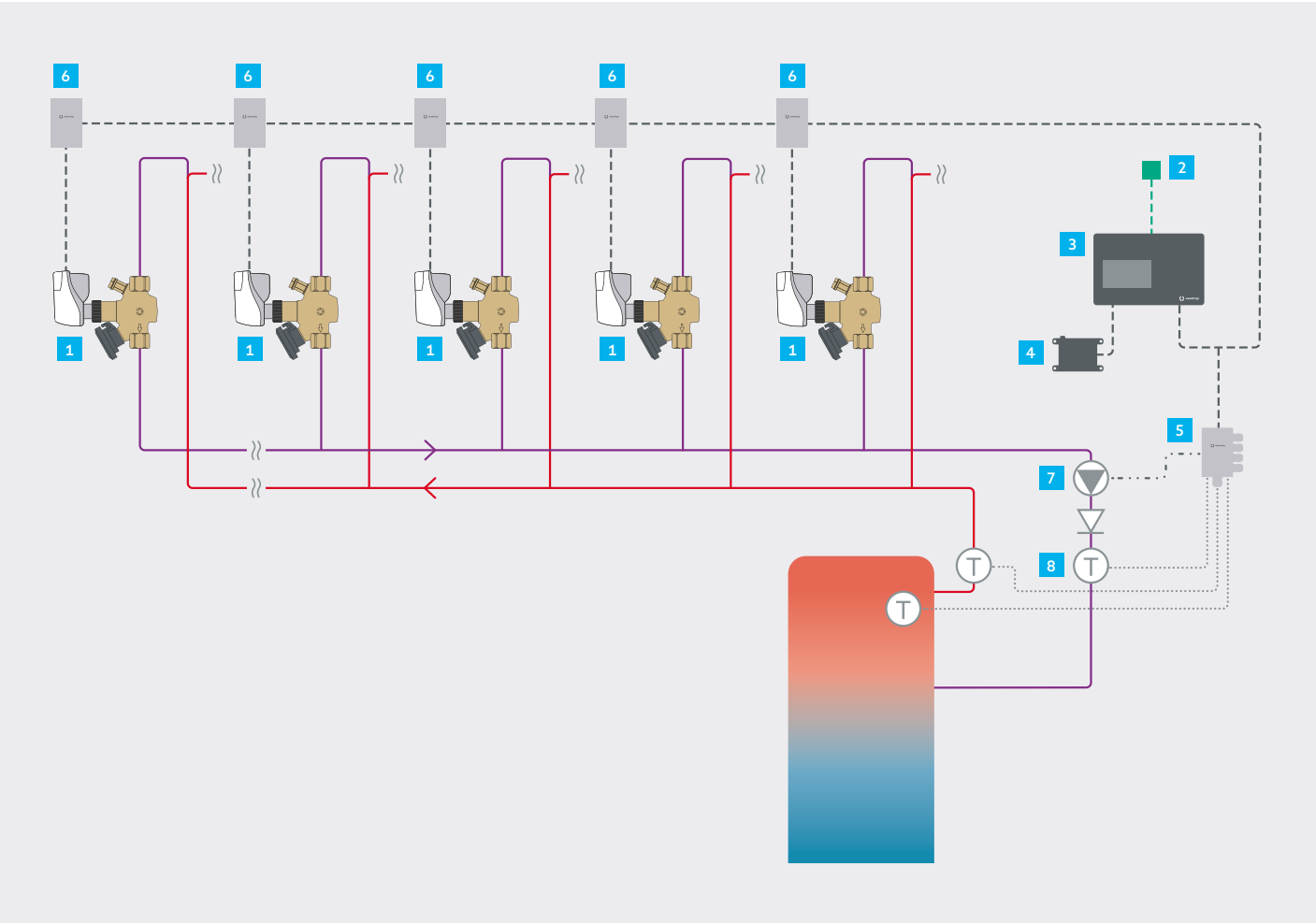
- + *Simple solution* for hydronic balancing in new and existing buildings
- + Functions and parameters can be *conveniently programmed*
- + *BACnet IP* as common interfaces for building automation





# The DynaTemp system solution

## at a glance



- 1 Aquastrom TD  
Electronic circulation regulating valves
- 2 Building automation
- 3 DDC CW-BS  
Control unit  
with Ethernet connection
- 4 TR-80  
Transformer
- 5 FM-CW Plus  
Field module

- 5 FM-CW K  
Field module
- 7 Circulation pump
- 8 Temperature sensors:
  - Hot water outlet
  - Circulation return
  - Storage cylinder temperature

# Products in detail

## Components of the system solution



DDC CW-BS CONTROL UNIT		
Number of field modules	Mounting	Item no.
31	Surface mounting	1153350



TR TRANSFORMER		
Designation	Power	Item no.
TR-80	80 VA	1153053



AQUASTROM TD ELECTRONIC CIRCULATION REGULATING VALVE WITH FM-CW K FIELD MODULE			
Nominal size	Thread	Connection size	Item no.
DN 15	Internal thread	Rp 1/2 x Rp 1/2	4205004
DN 20		Rp 3/4 x Rp 3/4	4205006
DN 15	External thread, flat sealing	G 3/4 x G 3/4	4205104
DN 20		G 1 x G 1	4205106



FM-CW FIELD MODULE WITH C BUS COMMUNICATION		
Designation	Description	Item no.
FM-CW Plus	For temperature detection, 24 V AC, 50 HZ, surface mounting	1153321
FM-CW K	24 V AC, 50 HZ, surface mounting	1153301



REM-CW RELAY MODULE FOR BURNER ACTVATION		
Designation	Mounting	Item no.
With analogue input (0-10 V), 24 V AC	Surface mounting	1153331



SENSOR LW TQ SENSOR ELEMENT	
Designation	Item no.
For remote monitoring of pipeline temperatures and for integration into a building automation system	1150090
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR and M, PT 1000 sensor element, G 1/4	4205592



Room climate



Hydraulics



Stations



Potable water



Oil



Smart Home,  
Smart Building

Oventrop is the partner for efficient heating, cooling and clean potable water. The modular systems and services offer pioneering solutions which all HVAC experts use to work with – easily and flexibly – from planning to installation, from industry to trade. As a family business, Oventrop accompanies all its partners over many years – competently and personally.



**oventrop**

Wir regeln das. Seit 1851.

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