



# DynaTemp CW-BS Control Unit

## Efficient 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.

### 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





## A perfectly coordinated system for optimal potable water hygiene



### 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

### ADVANTAGES FOR OPERATORS



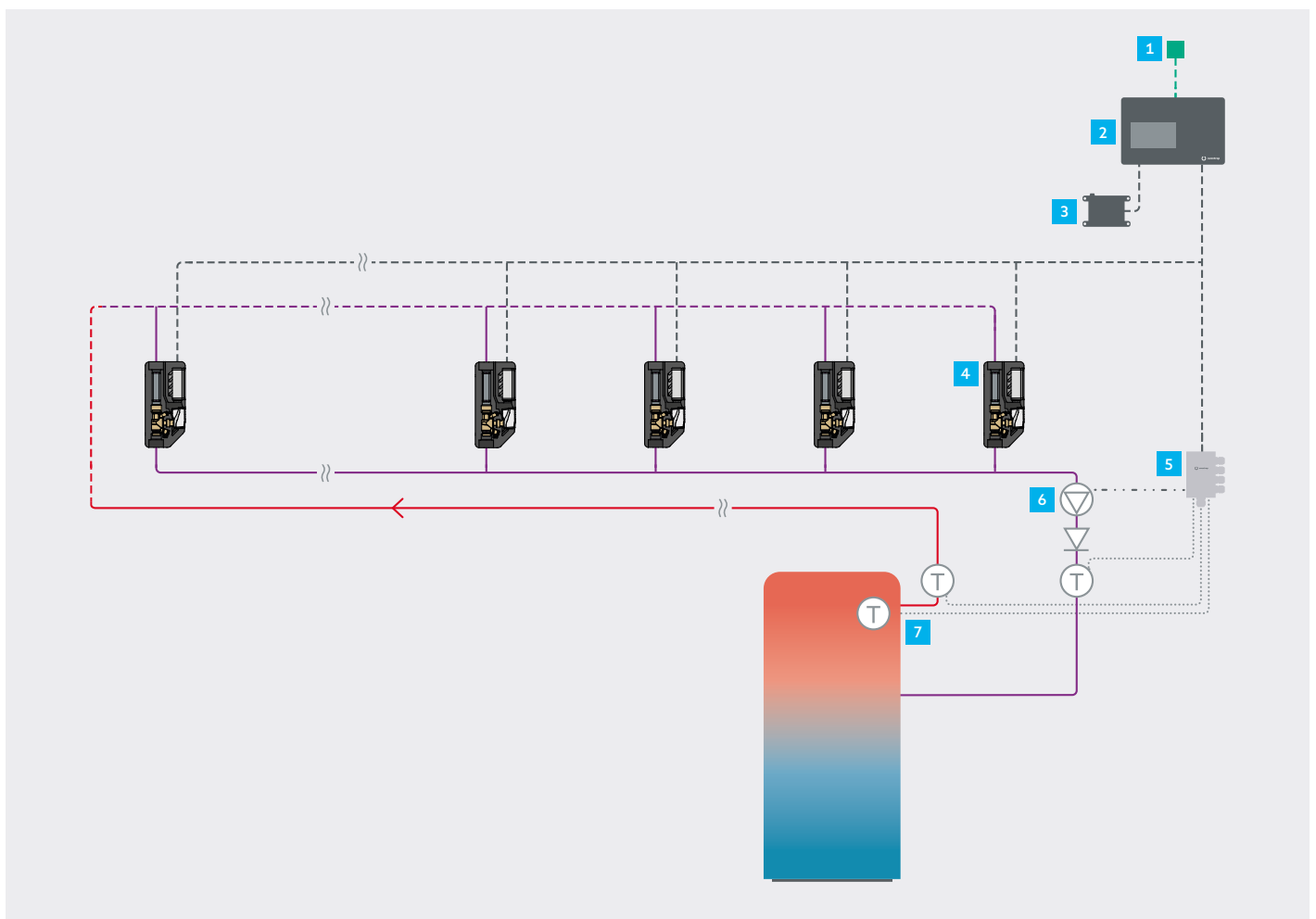
- + **High safety** through continuous monitoring and regulation of the system temperatures
- + System **automatically alerts** in case of malfunctions
- + Optimisation of the system through **early detection of weak points**
- + **Energy-efficient temperature control** and **permanent monitoring** of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

# The DynaTemp system solution at a glance



- 1 Building automation
- 2 DDC CW-BS control unit with Ethernet connection
- 3 TR-80 transformer
- 4 Aquastrom DT electronic circulation regulating valve

- 5 FM-CW Plus field module
- 6 Circulation pump
- 7 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
TR-250	250 VA	1153055



### AQUASTROM DT ELECTRONIC CIRCULATION REGULATING VALVE WITH FM-CW K FIELD MODULE

Nominal size	Thread	Connection size	Item no.
DN 15	Internal	Rp 1/2 x Rp 1/2	1150004
DN 20		Rp 3/4 x Rp 3/4	1150006
DN 25		Rp 1 x Rp 1	1150008
DN 15	External, flat sealing	G 3/4 x G 3/4	1150104
DN 20		G 1 x G 1	1150106
DN 25		G 1 1/4 x G 1 1/4	1150108



### FM-CW PLUS FIELD MODULE FOR TEMPERATURE SENSING

Description	Mounting	Item no.
with C-Bus communication	Surface mounting	1153321



### SENSOR LW TQ SENSOR ELEMENT

Description	Item no.
For remote monitoring of the pipeline temperature and integration into a building automation	1150090
For remote monitoring of circulation pipes with Aquastrom VT, T plus, C, F, KFR, M, and PT 1000 sensor element, G 1/4	4205592



Room climate



Hydronics



Stations,  
Storage cylinders



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**

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