

# e-ULTRAMIX®

The next generation of smart thermostatic mixing valve



**WATTS®**

# e-ULTRAMIX®

- **A comprehensive system:** easy to install, to use and to maintain.
- **Accurate temperature:** thanks to the bimetallic strip system (instant response, guaranteed comfort).
- **Automated and controlled disinfection:** programmable via the smart control unit.
- **The only scalable system on the market:** it is possible to upgrade an existing ULTRAMIX® installation or to equip a new installation.
- **Service Continuity:** in the event of a power failure it maintains with precision the temperature of mixed water and manual adjustment is possible.
- **Traceable data:** all data is saved on a micro SD card for subsequent use or interrogation (CSV format).
- **Compatible with the Building Technical Management system:** can be administered and monitored remotely (Modbus protocol).

## What are the applications?

**e-ULTRAMIX®** is needed for all centralised installations serving collective facilities: hospitals, hotels, camping sites, schools, health centres, swimming pools, thalassotherapy resorts, shopping malls, sports facilities etc.



# e-ULTRAMIX®

## WATTS®, mixing valve experts

TRUBERT® eurotherm is a brand of Watts, a well-established **technical leader** in thermostatic mixing valves for multi occupancy housing, industrial facilities and private homes.

The technology behind TRUBERT® mixing valves uses a principle of double control through the indirect action of a bimetallic strip, a development which was invented by the company.



**WATTS®** are utilizing their full expertise and experience to provide a comprehensive range that delivers full temperature control throughout any domestic hot water system:

- MINIMIX and INSTAmix® protects at the point of use.
- ULTRAMIX® distributes mixed water at a precise, constant temperature (up to 50 stations).
- T70 is designed for the tertiary sector and industrial heavy use facilities (up to 120 stations).

Our "multi-level" approach ensures that the water is at the correct temperature for each application, while providing full comfort and safety to users.

## The e-ULTRAMIX® innovation

**e-ULTRAMIX®** is a next generation system designed to locally or remotely **electronically configure the temperature** of the mixed water in a collective installation.

This electronic system is fitted with a smart controller used to **program thermal disinfection cycles automatically**, safely and securely, in order to prevent any risks of legionellosis within the DHW installation.

The system records all parameters concerning the disinfection process, as well as the various alerts and alarms, providing **genuine health tracking** of the installation.

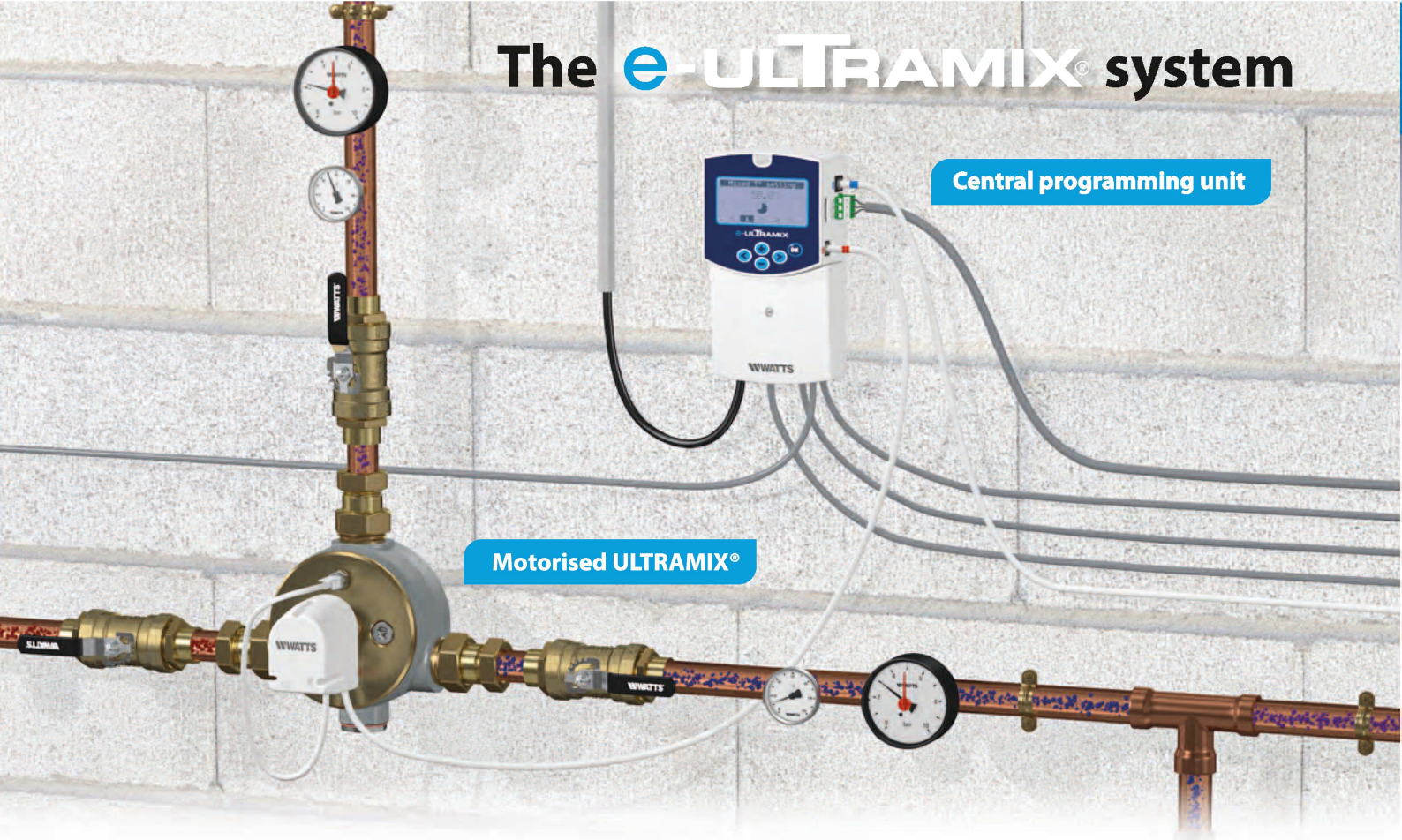
**The history can be transferred** to a micro SD on which all data will have been recorded, or remotely using a connection to a **Building Management System** (MODBUS protocol) via the RS485 interface provided.

**e-ULTRAMIX®** is, amongst other things, the only **evolutive system** on the market. It can be used on a new installation or on an installation already fitted with an **ULTRAMIX®** mixing valve by simply adding an **e-Kit**.





# The e-ULTRAMIX® system



Central programming unit

Motorised ULTRAMIX®



Anti-scald protection for shower



Anti-scald protection for sink

It is **MANDATORY** that the system should feature anti-scald protection at every draw off point to protect users in the event of accidental use during the thermal disinfection cycles. The cartridges will cut off the water flow whenever the temperature exceeds 48 °C.



## **Legionella protection**

*Legionella bacteria (occur naturally in water and their presence is a serious hazard to public health. Contamination is spread through inhalation as the bacteria proliferate when the hot water temperature is too low and/or stagnates inside the system. Their numbers can also be boosted by sedimentation and scaling in pipes. The bacteria are destroyed whenever the water temperature reaches 60 °C (this occurs within +/- 30 minutes).*

# e-ULTRAMIX®

## New installation

### e-ULTRAMIX®

Thermostatic mixing valve with Rinsing kit.

e-Cartridge.

Electric actuator.

Controller - micro SD card included.

Cable and probes (mixing valve and return).



Description					Cat. Nbr
e-ULTRAMIX 3/4"	3-56 L/min	1-7 pts	Size 1	22TX91E37ELEC	
e-ULTRAMIX 3/4"	3-80 L/min	1-10 pts	Size 2	22TX92E37ELEC	
e-ULTRAMIX 1"	3-120 L/min	1-15 pts	Size 3	22TX93E37ELEC	
e-ULTRAMIX 1"1/4	5-175 L/min	1-21 pts	Size 4	22TX94E37ELEC	
e-ULTRAMIX 1"1/2	5-260 L/min	1-32 pts	Size 5	22TX95E37ELEC	
e-ULTRAMIX 2"	6-400 L/min	1-50 pts	Size 6		

## Upgrade of an installed e-ULTRAMIX®

### e-Kit

e-Cartridge.

Electric actuator.

Controller - micro SD card included.

Cable and probes (mixing valve and return).



Description					Cat. Nbr
e-Kit 3/4"	3-56 L/min	1-7 pts	Size 1	22TX1E37EKIT	
e-Kit 3/4"	3-80 L/min	1-10 pts	Size 2	22TX2E37EKIT	
e-Kit 1"	3-120 L/min	1-15 pts	Size 3	22TX3E37EKIT	
e-Kit 1"1/4	5-175 L/min	1-21 pts	Size 4	22TX4E37EKIT	
e-Kit 1"1/2	5-260 L/min	1-32 pts	Size 5	22TX5E37EKIT	
e-Kit 2"	6-400 L/min	1-50 pts	Size 6	22TX6E37EKIT	

### e-Cartridge

Replacement cartridge for e-Kit and e-ULTRAMIX®



Description					Cat. Nbr
e-Cartridge 3/4"	3-56 L/min	1-7 pts	Size 1	22TX1E37ECART	
e-Cartridge 3/4"	3-80 L/min	1-10 pts	Size 2	22TX2E37ECART	
e-Cartridge 1"	3-120 L/min	1-15 pts	Size 3	22TX3E37ECART	
e-Cartridge 1"1/4	5-175 L/min	1-21 pts	Size 4	22TX4E37ECART	
e-Cartridge 1"1/2	5-260 L/min	1-32 pts	Size 5	22TX5E37ECART	
e-Cartridge 2"	6-400 L/min	1-50 pts	Size 6	22TX6E37ECART	

## Accessories

### Anti-scald protection



Description		Cat. Nbr
Anti-scald protection MF 1/2"		2297155
Anti-scald protection M 24x1 with aerator		2297156

# e-ULTRAMIX®



**VIDEO  
PRESENTATION**



**INSTALLATION  
TUTORIAL**



Watts Water Technologies, Inc.

1590 avenue d'Orange | CS 10101 SORGUES 84275 VEDENE cedex FRANCE  
Tel. +33 (0)4 90 33 28 28 | Fax +33 (0)4 90 33 28 29 | [contact@wattswater.com](mailto:contact@wattswater.com)  
[www.wattsindustries.com](http://www.wattsindustries.com)