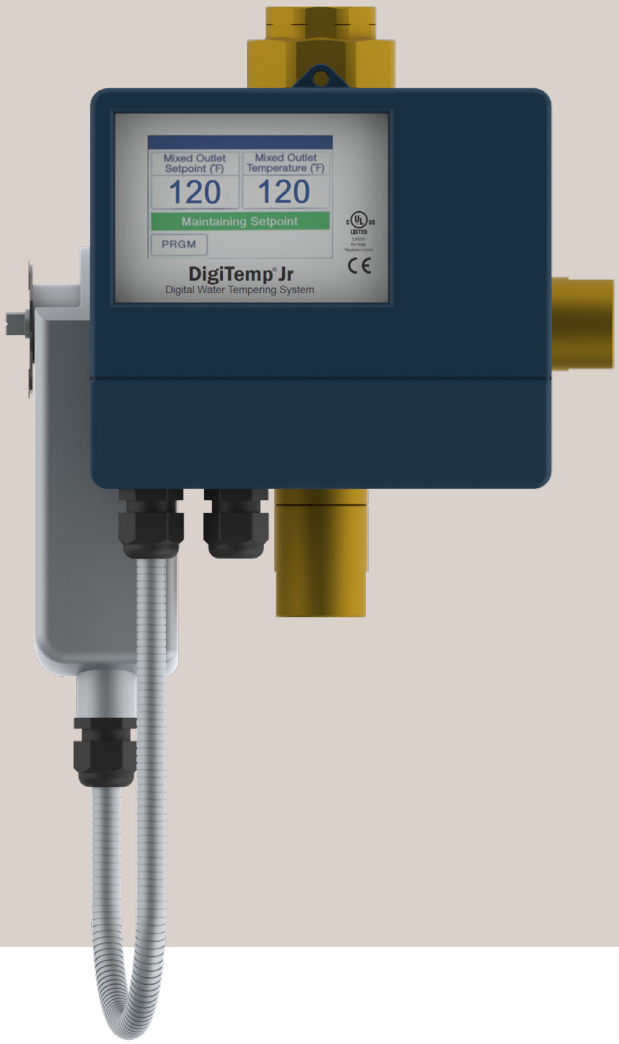
DigiTemp® Jr

Digital Water Tempering System



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AERCO®
A WATTS Brand

Precise Temperatures for Safety and Energy Efficiency

DigiTemp Jr offers digital domestic hot water mixing solutions that intelligently control and monitor tempered water distribution within the building recirculation loop. It provides precisely controlled water temperature regulation within ±2°F in compliance with ASSE 1017 (even during low and zero demand periods).

When paired with an AERCO water heater, DigiTemp Jr ensures a safe, precise and consistent hot water distribution system in accordance with the building codes. Through more efficient water temperature management, DigiTemp helps conserve energy thus reducing overall operational expense.

Why Choose a DigiTemp?

- **Improved health and safety** of building occupants through the effective mitigation of scalding risks and thermal shock injuries as well as Legionella growth in the domestic hot water system.
- **Greater energy efficiency** as the digital water tempering systems support energy conservation through accurate and more efficient water temperature management to help reduce energy costs.
- **Save time on operation** by connecting the DigiTemp Jr to the building automation system to provide read access to a range of temperature and pressure measurements and allow adjustment of the outlet temperature setting.

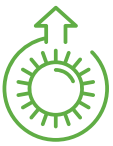
ASSE 1017 and NSF 372 compliance

±2ºF temperature control

Thermal sanitization mode for pathogen mitigation

Automatic fail-cold during power outage

Lowers temperature when the building is unoccupied



Overnight temperature creep prevention

Programmable high-temperature alarm

Connect to BAS for remote read/write

3.5" full-color, configurable touchscreen display

Packed with Powerful Features

DigiTemp Jr

Ideal for Nursing Homes, Assisted Living, Ambulatory Care, Select Service/Budget Hotels, K-12 Schools, Jails, Offices.

5 YEAR WARRANTY

ASSE 1017 · UPC · NSF Certified to NSF/ANSI 61 Section 9-G

Valve Only

cULus LISTED E365015 Temp. Ind. and Reg. Equip. · BTL

Controller Only

Capacity

(@10 psid)

23 gpm (3/4”)	55 gpm (1”)	71 gpm (1-1/2”)	125 gpm (2”)

Key Specifications

Temperature Adjustment Range:	60°F to 180°F
Max Operating Pressure:	200psi (1379kPA)
Max Hot Water Supply Temperature:	2°F (1°C) above setpoint
Hot Water Inlet Temperature Range:	120-180°F (49-82°C)
Cold Water Inlet Range:	39-80°F (4-26°C)
Minimum Flow:	0.5 gpm (1.89 lpm)

DigiTemp Jr

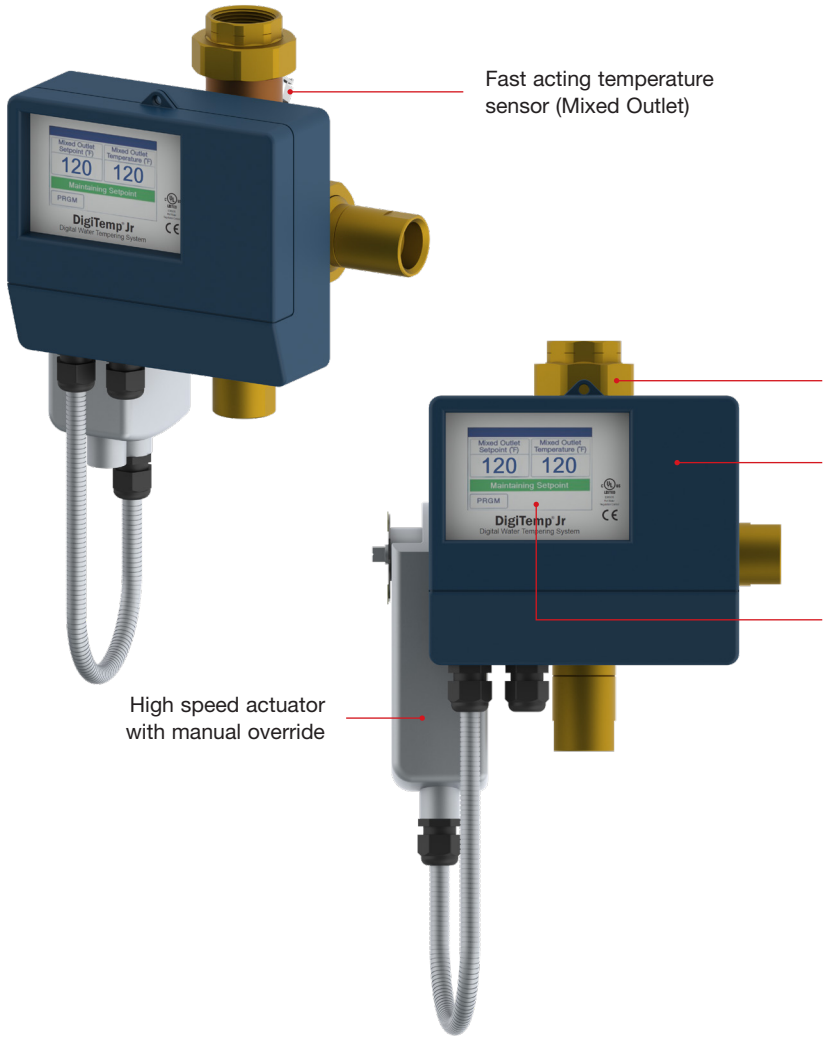
DigiTemp Jr is designed for light commercial applications that controls water temperature to ±2°F in accordance with ASSE 1017.

Field configurability, simplified installation, and BAS connectivity make DigiTemp Jr the affordable digital mixing valve upgrade for a wide range of applications.

Connected through the native Building Automation System

(BAS), DigiTemp Jr's sanitization mode addresses waterborne bacteria while a programmable temperature set-back feature lowers water temperature to a programed set point when the building is unoccupied. It flows full cold in the event of a power outage – returning to programmed settings once power is restored.

DigiTemp Jr also prevents overnight temperature creep, and automatically balances hot water distribution during low to no demand periods.



Ideal for a Variety of Applications

Motels

Nursing Homes

Clinics

Schools

Small Businesses

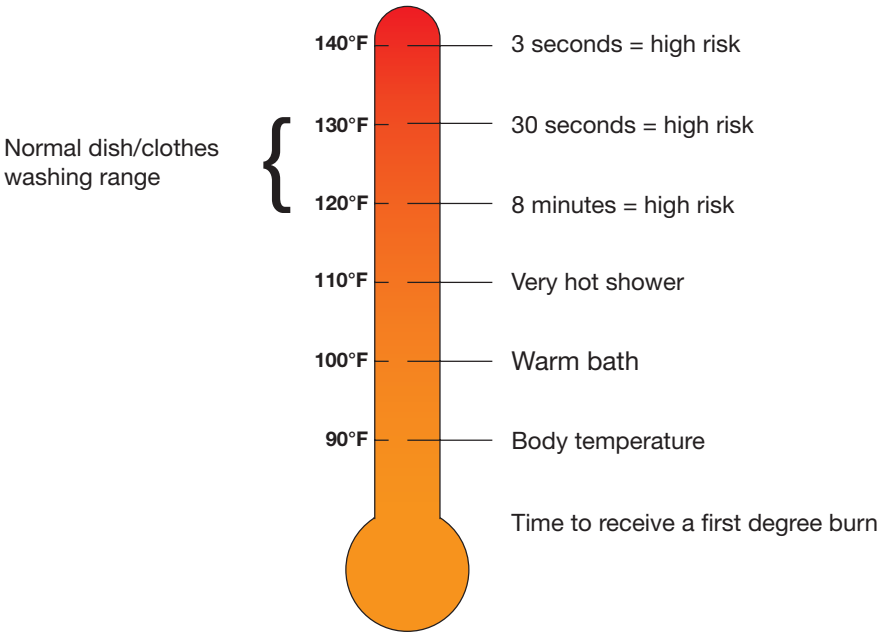
Jails

Prevent Scalding and Thermal Shock Injuries

Uncontrolled and untempered water distribution systems can create high-temperature scalding hazards as well as serious falls or injuries from the thermal shock of rapid and uncomfortable changes in shower water temperature.

DigiTemp allows you to easily select and set a safe water temperature to keep building occupants safe from these types of injuries while providing precisely controlled water temperature regulation within ±2°F in compliance with ASSE 1017.

Scalding Risk at Various Temperatures



The Prevalence of Scalding Injuries

- Approximately 5,000 serious injuries from scalding tap water occur every year
- 1,400 of those injuries result in overnight hospital stays and 34 result in deaths
- Tap water burns account for up to 17% of all childhood burns requiring hospitalization
- 85% of these deaths and injuries involve children under 15 and seniors over 65.[1]

3 Seconds to Scald

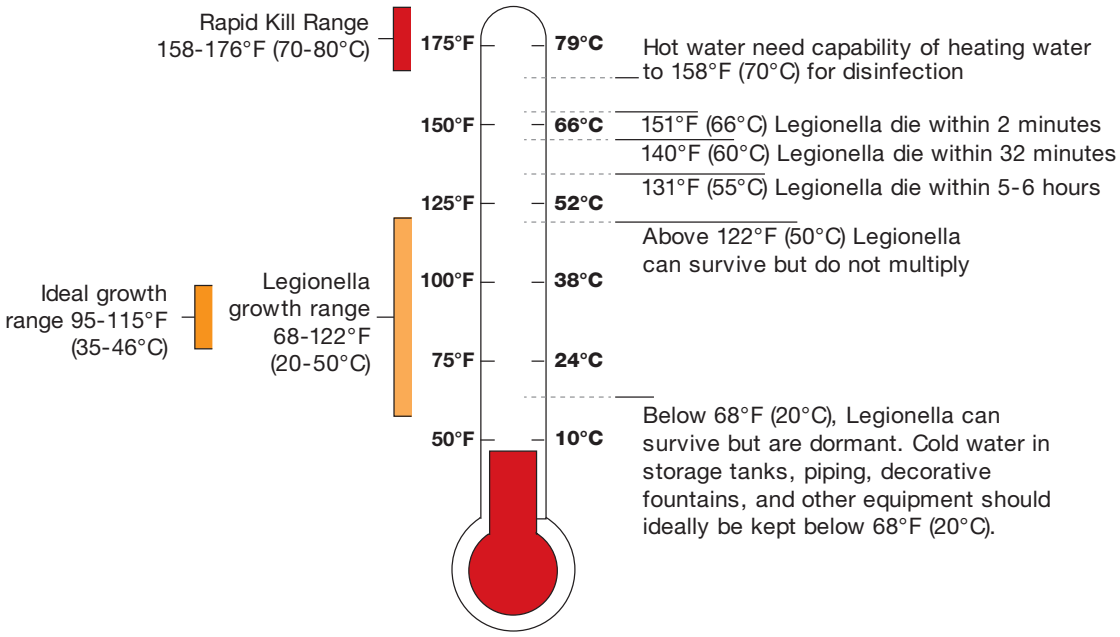
Hot water will burn skin at temperatures well below boiling point. In fact, at 140°F, it only takes 3 seconds of exposure to cause a burn that could well require surgery.

Effective Pathogen Mitigation

According to the Centers for Disease Control (CDC), proper maintenance of water temperature in storage and delivery systems is key to preventing illness from waterborne bacteria such as Legionella. This is critical because the number of Legionella cases has increased nearly nine-fold in the last two decades with 10% of cases being fatal.[2]

Insufficiently heated water is a common cause of such outbreaks. DigiTemp provides effective pathogen mitigation through precisely controlled water temperatures that kill harmful bacteria, while keeping building occupants safe from scalding.

Legionella Growth Chart



Thermal Sanitization

An effective water management program also integrates thermal disinfection which has proven to be highly effective in mitigating the growth of bacteria, protozoa, and viruses found in the inlet water, wastewater, and other media. DigiTemp features a thermal sanitization mode to easily and effectively perform this procedure on a regular basis.

The True Costs of Legionella Outbreaks

Legionella outbreaks cost U.S. facility owners more than $1 billion annually, on average, due to lawsuits, treatment, and lost work hours.[3, 4]

[1]https://cultureofsafety.thesilverlining.com/childcare/tap-water-burns-and-scalds/
[2]National Center for Biotechnology Information (NCBI)
[3]https://www.infectioncontroltoday.com/view/preventing-waterborne-pathogen-transmission
[4]CDC VitalSigns, June 2017

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