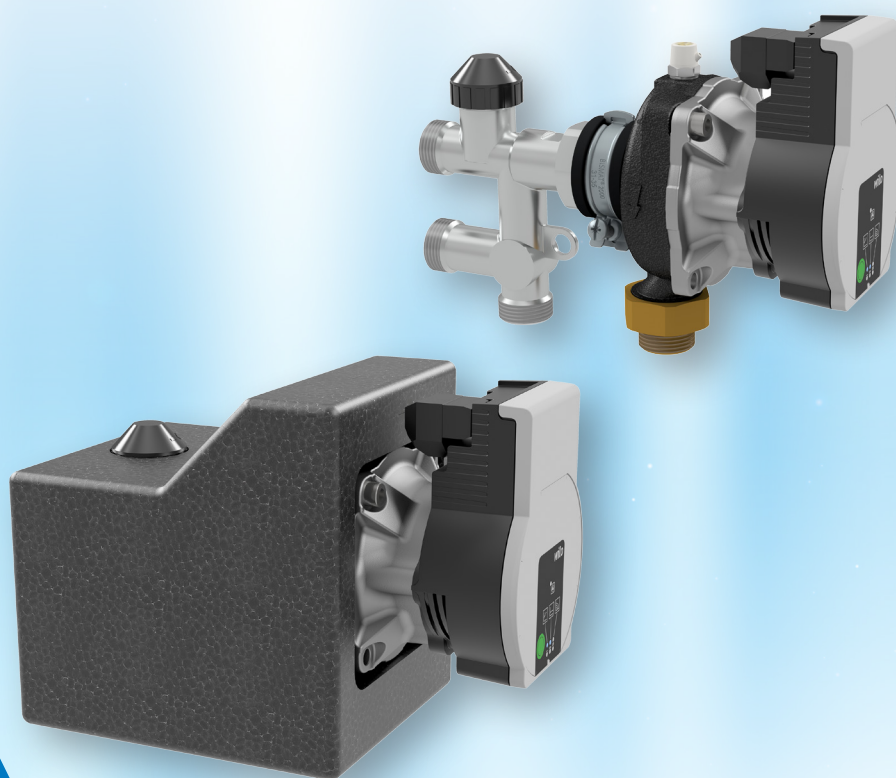


Mini Shunt

The Compact, Pre-Assembled Control Unit
for Faster, Smarter Heating Installations



Introducing Mini Shunt

A compact, wall-mounted, factory-assembled hydraulic control module designed to significantly reduce installation time and improve commissioning reliability in small-zone heating applications.

All primary hydraulic components—including a Wilo® circulation pump, integrated non-return valve, thermostatic mixing assembly, and a complete EPP insulation shell—are pre-configured and mounted within a single, ready-to-install unit. This eliminates on-site component selection, assembly variability, and configuration errors, ensuring consistent system performance and predictable installation outcomes across projects.

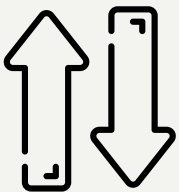
- Reduces installation time and errors through complete factory pre-assembly.
- Compact design integrates easily into confined renovation spaces.
- Maintains stable supply temperatures via thermostatic mixing with sensor control.
- Supports multiple control architectures: mechanical, thermostat-based, and smart systems.
- Applicable across system types including single-room zones, renovations, mixed circuits, and new-build installations.

Applications



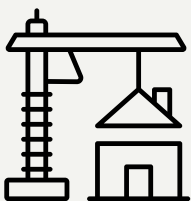
Renovation Projects

- Integrates into existing systems with minimal changes
- Fits tight spaces without structural work
- Clean, fast retrofit with pre-assembled design
- Enhances energy efficiency in older systems
- Perfect for bathrooms, towel rails, and single-room UFH zones



Mixed Systems (High-Temp + Low-Temp)

- Adds low-temperature loops to existing radiator systems
- Prevents overheating of UFH or towel warmers
- Avoids major system redesign
- Improves comfort and efficiency



New Build Installations

- Streamlined integration for contractors
- Simplifies mechanical design with fewer components
- Supports modern efficiency requirements
- Ideal for compact, space-optimised layouts
- Compatible with all modern control strategies

Product Key Features

- **Fully Pre-Assembled for Fast, Error-Free Installation**

A complete, factory-built solution with pump, mixing valve, insulation, and connections integrated—reducing labour time and eliminating setup mistakes.

- **Compact Footprint for Tight Spaces**

Slim, wall-mounted design fits easily into cabinets, niches, and renovation constraints.

- **Built-In Wilo® Pump**

Trusted brand performance ensures reliable commissioning and reduced field failures.

- **Full EPP Insulation Shell**

Minimises heat loss and helps meet modern efficiency standards—no extra work required.

- **Optimised for Small-Zone Heating**

High Kvs and up to 6 bar capability deliver stable flow across various layouts.

- **Precise Constant Temperature Control (20–70 °C)**

Thermostatic mixing with sensor feedback ensures immediate, stable temperature.

- **Universal G ¾" Eurocone Connections**

Standard fittings speed installation and cut leakage risk.

Built-In Non-Return Valve

- Prevents flow short-circuiting
- Simplifies hydraulic balancing
- Fewer components to install, fewer potential failures

Integrated EPP Insulation Shell

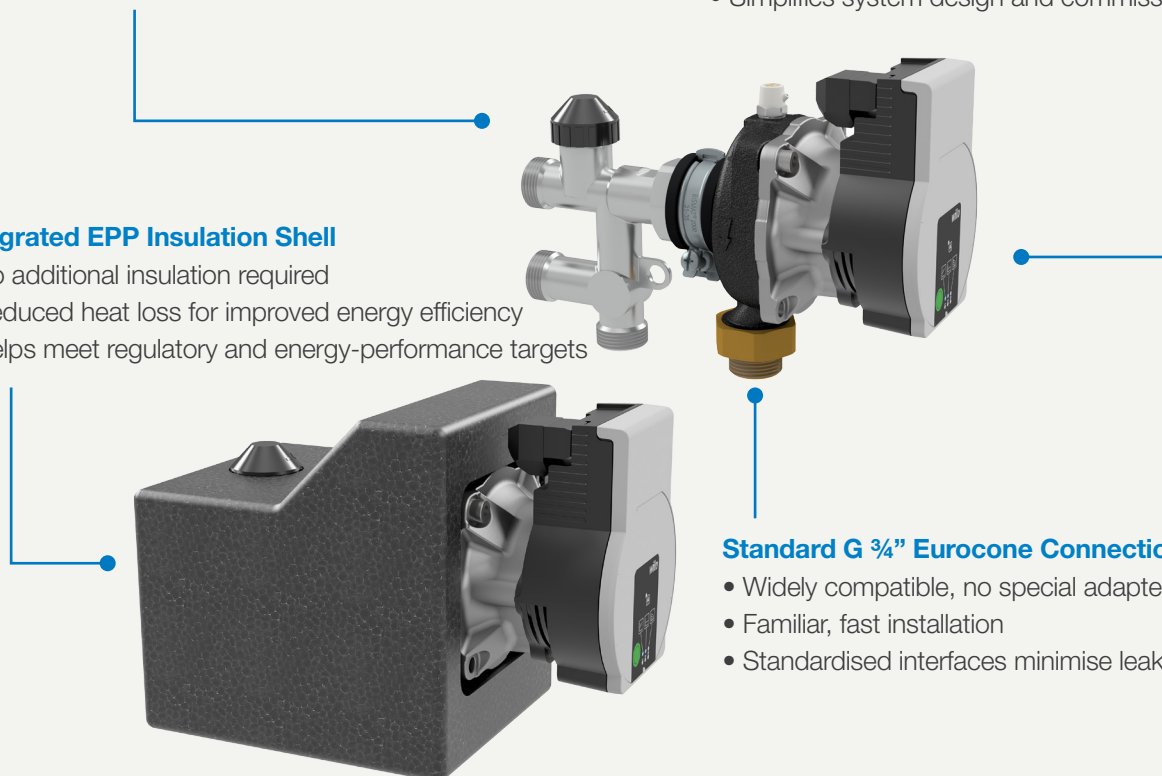
- No additional insulation required
- Reduced heat loss for improved energy efficiency
- Helps meet regulatory and energy-performance targets

Built-In Wilo® Circulation Pump

- Reliable, trusted brand pump
- Eliminates separate pump selection
- Reduces risk of field failures
- Simplifies system design and commissioning

Standard G ¾" Eurocone Connections

- Widely compatible, no special adapters
- Familiar, fast installation
- Standardised interfaces minimise leakage risk



Flexible Control for Every Project

Mechanical Set-Point Control

- Fastest commissioning method using direct mechanical temperature adjustment.
- Minimal electrical wiring required, minimising installation steps and failure points.
- Well-suited for rapid retrofit applications where system disruption must be kept low.

Room Thermostat + Actuator Control

- Provides precise on/off zone control via thermostatic demand signalling.
- Compatible with 2-wire and 4-wire actuator configurations, supporting a wide range of control interfaces.
- Enhanced energy saving by modulating operation based on outside temperature.

Smart Climatic Control Integration

- Enables advanced, demand-responsive heating strategies with dynamic temperature optimisation.
- Supports programmable scheduling, holiday mode, and frost protection for system efficiency and protection.
- Achieves enhanced user comfort with minimal modification to the underlying hydraulic circuit.

Performance and Technical

Optimised Hydraulics for Small-Zone Heating

- Strong, stable flow with high Kvs
- Suitable for up to 6 bar operating pressure
- Reliable performance across various layouts
- Reduced balancing issues and callbacks

Constant Temperature Control (20–70 °C)

- Thermostatic mixing valve with sensor
- No complex setup required
- Consistent output temperature improves comfort and system safety
- Easy “set it and forget it” explanation for homeowners

Compact, Space-Saving Design

- Fits inside cabinets, utility niches, and restricted renovation spaces
- Reduces structural modification costs
- Ideal for modern, compact residential installations



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Watts Industries Nordic AB

Godthåbsvej 83, 1.sal • 8660 Skanderborg • Denmark
Tlf.: + 45 86520032 • Fax: + 45 86520034

Email: wattsnordic@wattswater.com
Web: www.watts.eu/nordic