

WattMix Series

Control unit for wall mounted boilers

Technical Data Sheet



Description

Control unit WattMix **with one pump**: ready-to-mount, compact control unit is designed for connection of wall-mounting boiler with 1 pump.

Control unit WattMix **with two pumps**: ready-to-mount, compact control unit is designed for connection of wall-mounting boiler without pump.

WattMix



WattMix with 1 pump



WattMix with 2 pumps

Ready-to-mount, compact control unit consisting of a high-temperature heating circuit without mixing valve (e.g. radiator heating) as well as a low-temperature heating circuit with mixing valve (e.g. underfloor heating).

Use of high efficiency circulation pumps with overall length 130 mm

Fully pre-assembled mixing valve with bypass and actuator

Pump and mixing valve actuator wired ex works

Thermometer integrated in the shutoff fittings

Heat insulation cladding made of EPP with patented snap seam fitting, also serves as transport protection

All points of connection flat-sealed

The WattMix wall-mounted boiler control unit can be optionally mounted to the side of or directly below the wall-mounted boiler

No switchover valve is required for the operation of both heating circuits.

Gas connection of the wall-mounted boiler can be easily effected by special design of the distribution manifold.

Type	Part no.	Description	Weight
WattMix with 1 pump	10029357	1 x Wilo Yonos PARA15/6	8.6kg
WattMix with 1 pump	10036998	without pump (1 pump mounting place)	7.9 kg
WattMix with 2 pumps	10028106	2 x Wilo Yonos PARA15/6	11.1 kg

Technical Data WattMix 2 circuits

Kvs	4,2
Max. capacity	28 kW
Direct circuit	
Max. capacity	18,5 kW
Flow	796 l/min
ΔT	20 °C
Mixing circuit	
Max. capacity	16,4 kW
Flow	1428 l/min
ΔT	20 °C

Technical data - 3-way mixing valve

Kvs value	6.3
Max. admissible operating pressure	6 bar
Max. admissible differential pressure	2 bar
Actuation angle	90°

Materials

Fittings	Hot-pressed brass
Pipe systems	Precision pipes made of steel and brass
Heat insulation cladding	EPP – with patented snap seam fitting
O-ring seals	EPDM elastomers
Flat seals	AFM 34
Valve seats	PTFE

Technical data: mixing valve motor

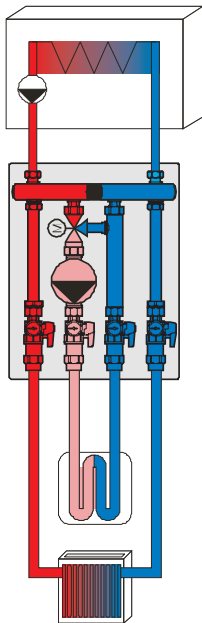
Voltage supply	230 V – 50 Hz
Power consumption	2.5 W (5 Nm)
Angle of rotation	90°, electrically limited
Torque	5 Nm
Run time	140 s
Manual adjustment	Mechanical gear disengagement

Application

The WattMix control unit is designed for connecting wall hanging gas boilers to mixed (e.g. floor heating), and unmixed (e.g. radiator heating) heating circuits. Available with only a pump in mixed circuit or one pump each in mixed and unmixed. Suitable for boilers with or without integrated pump.

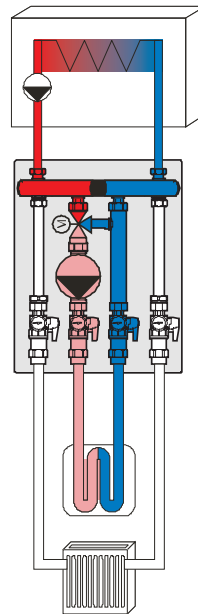
Operation

The WattMix control unit for wall-mounted boilers serves to distribute the volume flow to a high-temperature heating circuit (e.g. radiator heating) and a low-temperature heating circuit (e.g. underfloor heating). The low-temperature circuit is fed by a heating circuit unit with 3-way mixing valve and recirculating pump. The unregulated heating circuit is operated via the boiler pump. No switchover valve is required for the operation of both heating circuits. The design is adapted to the connection situation of the heating boiler. The gas connection of the wall-mounted boiler can be easily effected by special design of the distribution manifold.



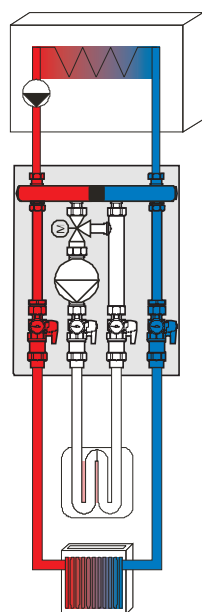
Operating status: both heating circuits in operation

The burner and the heater pump are switched on in response to demand from the heating circuits, and the medium is then transported into the curved manifold pipe of the compact unit. In this manifold pipe – made up of flow and return chamber – the volume flow is divided between the mixed and the non-mixed heating circuit. The non-mixed heating circuit is fed by the heater pump. This means that circulation can take place in this heating circuit to suit the demand request. The pump of the mixed heating circuit is in operation and feeds the underfloor heating circuit via the 3-way mixing valve, which regulates the flow to suit demand. The return flow media from both heating circuits come back together in the manifold pipe bend and are forwarded to the heater.



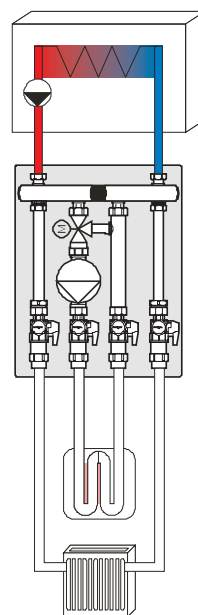
Operating status: mixed heating circuit in operation

The burner and the heater pump are switched on in response to demand from the mixed heating circuit. The compact unit adjusts the desired flow temperature via the 3-way mixing valve to suit the demand parameters.



Operating status: non-mixed heating circuit in operation

In this mode, the 3-way mixing valve is closed and the feed is to the non-mixed heating circuit only. The burner and the heater pump are switched on in response to demand from the non-mixed heating circuit, and the medium is then transported into the curved manifold pipe of the compact unit. The non-mixed heating circuit can therefore be fed via the heater pump.



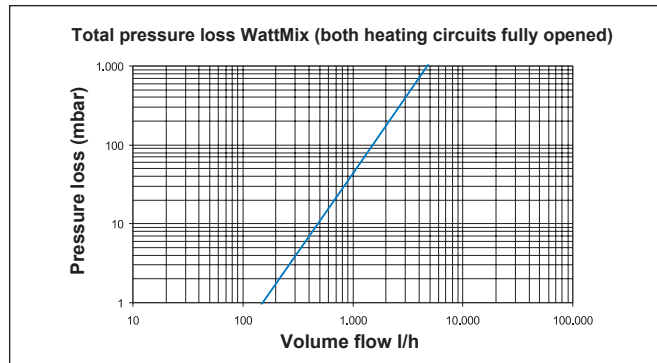
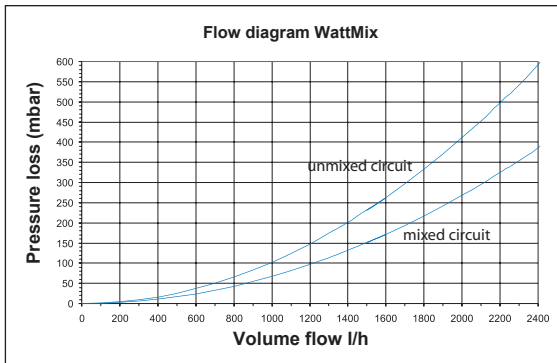
Operating status: both heating circuits without demand request or not in operation (hot water preparation)

If there is no demand from either of the heating circuits, the heater pump feeding the non-mixed heating circuit and the pump of the mixed heating circuit of the WattMix are not in operation. The 3-way mixing valve is closed.

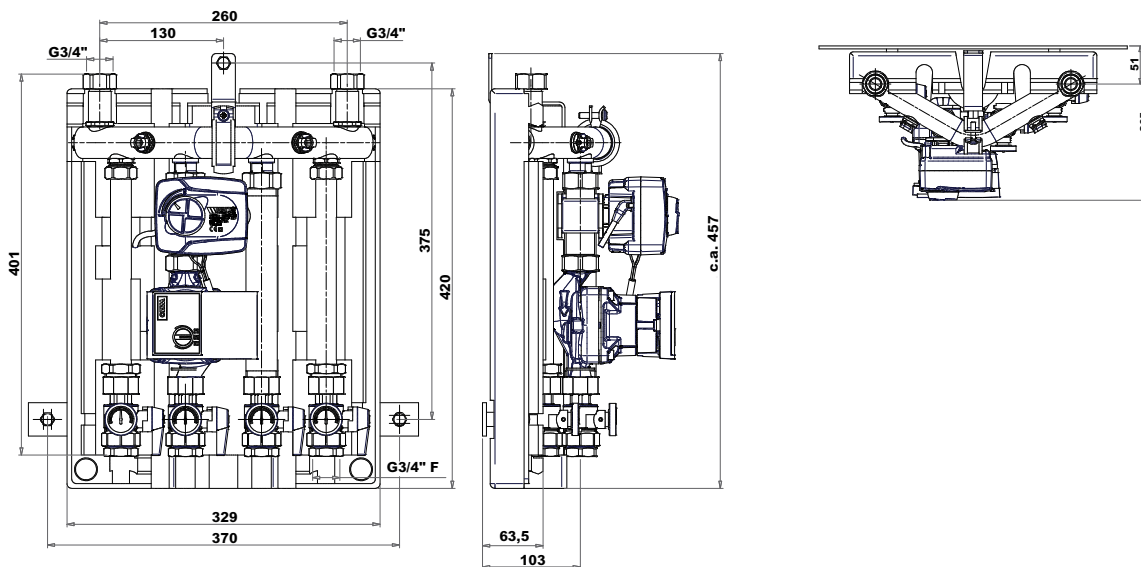
Installation

The highly compact design of the WattMix control unit for wall-mounted boilers with flat-seal connections throughout ensures safe and fast mounting even where space is limited. Wall mounting is via a plug-in type mounting bracket that can be removed using standard tools.

Charts



Overall dimensions



Specification text

Ready-to-mount, compact control unit consisting of: direct heating circuit (e.g. radiator heating) and heating circuit with mixing valve (e.g. floor heating), circulation pump with installation length of 130 mm, cabling ex works, three-way mixing valve with bypass, pre-assembled actuator, isolating valves with thermometer, EPP heat insulation, flat sealing connections. The WattMix control unit for wall-mounted boilers can be mounted alongside or directly underneath the wall-mounted boiler. Simple gas connection through special distribution manifold design. Available with only a pump in mixed circuit or one pump each in mixed and unmixed circuit.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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