Booster units

Technical data sheet

Booster units

GENERAL FITTINGS
YOUNIQUE · ITALIAN

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Booster units

DESCRIPTION

A central heating pump group is a device used in central heating systems to circulate hot water from the boiler to the radiators or other heating elements (for example floor-heating). General Fittings' distribution and pump units are specially designed to be easily installed in the boiler room, or anywhere else in the house. Thanks to the extreme modularity, the system can be configured for a variety of project requirements.
The pump units are available with up to five secondary ways with a choice of direct pump, fixed-point mixing station or mixer valve with 3-point or 0-10V servomotor.
The system can also be installed inside a flush-mounted box (not supplied by us) or externally with special wall fixings.
It can be comined to any type of heat generator, as the special balancer always guarantees optimal operation by implementing:

- Micro-bubble air separator with automatic vent valve;
- In-line filter on the return piperemovable system

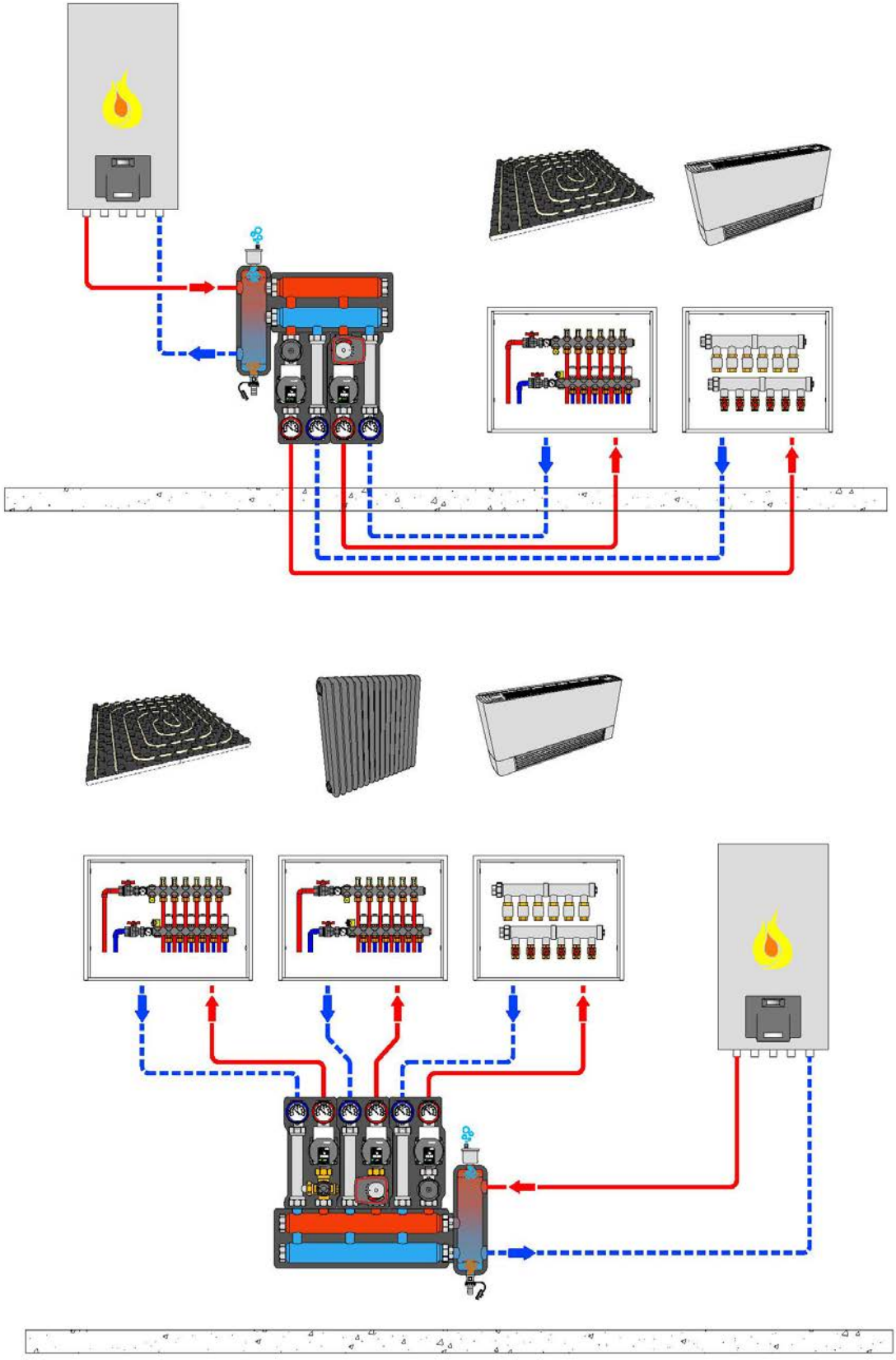
Units with centre distance 125 in sizes DN25 and DN32 can also be ordered on request.

ADVANTAGES

- The installer will only have to make the plumbing connections, as the whole system is compact and does not require space that is not always available
- Possibility of customising the position of components on the various manifold circuits
- Reliability: all components are tested and subjected to strict controls. Filter, deflector, air valve and deaerator are fitted as standard on all models

FIELDS OF APPLICATION

APPLICATIONS	
	low temperature heating (floor)
	low temperature heating (wall)
	low temperature heating (ceiling)
	heating
	conditioning



DIRECT DISTRIBUTION UNIT

The direct distribution unit with 80 mm center distance is suitable for heating and cooling systems, and allows the regulation and distribution of water in single-zone and multi-zone systems.
It must be installed after the boiler or heat pump, using a hydraulic separator or buffer tank.
The direct distribution unit allows the temperature of the systems to be controlled at the same temperature as the output of the heat generator.
Complete with high-efficiency pump, flow and return thermometers, nut connections Ø1" on secondary circuit manifold and Ø1" F connection on system side, insulation designed for heating and cooling.

DIRECT PUMP UNIT: FEATURES

Technical Data	
Maximum working temperature:	80°C
Maximum working pressure	6 bar
Female threaded connections	UNI ISO 228/1
Male threaded connections	UNI ISO 228/1
Circulator (standard)	Wilo PARA 25/6
Circulator (oversized)	Wilo PARA 28/6
Suitable fluids	Water or water/glycol mixtures (max. 30%)
Thermometer measurement range	0-80°C
Group connection centre distance	80mm

Technical Data	
Circulator centre distance	130mm
Circulator power supply	230V – 50/60 hz

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DIRECT PUMP UNIT: MATERIALS

COMPONENT	MATERIAL
Ball valve body	Brass UNI EN 12164 - CW614N
Hydraulic seals	EPDM screw
Circulator body	Cast iron
Insulation	PE 15mm
Insulation density	60kg/m3
Thermal conductivity insulation	0.04 W/mK
Pipe	AISI 304

FIX POINT MIXING STATION

The fix point mixing station with with 80 mm center distance is suitable for heating and cooling systems, and allows the regulation and distribution of water in single-zone and multi-zone systems.
It must be installed after the boiler or heat pump, using a hydraulic separator or buffer tank.
The fixed-point distribution unit with manual thermostatic regulation by means of a knob actuator is designed to supply low-temperature circuits (radiant panel system) or circuits with radiators or other heating bodies while keeping the flow temperature constant at the set value.
The regulating element of the thermostatic three-way valve is a temperature sensor, completely immersed in the mixed water outlet pipe. Through its contraction or expansion movement, it continuously establishes the correct proportion between hot water, coming from the heat generator, and return water from the radiant panel circuit.
Complete with high-efficiency pump, flow and return thermometers, nut connections Ø1" on secondary circuit manifold and Ø1" F connection on system side, insulation designed for heating and cooling.

FIX POINT MIXING STATION: FEATURES

Technical Data	
Maximum working temperature:	80°C
Maximum working pressure	6 bar
Female threaded connections	UNI ISO 228/1
Male threaded connections	UNI ISO 228/1
Circulator (standard)	Wilo PARA 25/6

Technical Data	
Circulator (oversized)	Wilo PARA 28/6
Suitable fluids	Water or water/glycol mixtures (max. 30%)
Thermometer measurement range	0-80°C
Group connection centre distance	80mm
Circulator centre distance	130mm
Circulator power supply	230V – 50/60 hz

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FIX POINT MIXING STATION: MATERIALS

COMPONENT	MATERIAL
Ball valve body	Brass UNI EN 12164 - CW614N
Hydraulic seals	EPDM screw
Circulator body	Cast iron
Insulation	PE 15mm
Insulation density	60kg/m3
Thermal conductivity insulation	0.04 W/mK
Pipe	AISI 304

MOTOR MIXING UNIT 3 POINTS / 0-10

The motor mixing unit with 80 mm center distance is suitable for heating and cooling systems, and allows the regulation and distribution of water in single-zone and multi-zone systems. It must be installed after the boiler or heat pump, using a hydraulic separator or buffer tank.
Prepared to be controlled by an electronic climate regulator capable of modifying the valve opening and compensating the system flow temperature according to the outside temperature. It can be combined with radiant panel heating/cooling systems or with heating elements of any type.
Complete with high-efficiency pump, flow and return thermometers, nut connections Ø1" on secondary circuit manifold and Ø1" F connection on system side, 3-point or 0-10 proportional servomotor, insulation designed for heating and cooling.

MOTOR MIXING UNIT: FEATURES

Technical Data	
Maximum working temperature:	80°C
Maximum working pressure	6 bar
Female threaded connections	UNI ISO 228/1
Male threaded connections	UNI ISO 228/1
Circulator (standard)	Wilo PARA 25/6
Circulator (oversized)	Wilo PARA 28/6
Suitable fluids	Water or water/glycol mixtures (max. 30%)

Technical Data	
Thermometer measurement range	0-80°C
Group connection centre distance	80mm
Circulator centre distance	130mm
Circulator power supply	230V – 50/60 hz
3-point servomotor power supply	230V
0-10V proportional power supply	24V

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MOTOR MIXING UNIT: MATERIALS

COMPONENT	MATERIAL
Ball valve body	Brass UNI EN 12164 - CW614N
Hydraulic seals	EPDM screw
Circulator body	Cast iron
Insulation	PE 15mm
Insulation density	60kg/m3
Thermal conductivity insulation	0.04 W/mK
Pipe	AISI 304

DISTRIBUTION MANIFOLD

The distribution manifold with 80 mm centre distance is suitable for heating and cooling systems, and allows the regulation and distribution of water in single-zone and multi-zone systems.
It must be installed after the boiler or heat pump, using a hydraulic separator or buffer tank.
Complete with variable way distribution manifold (1 to 5), tails Ø 1" 1/2 F x 1 F, caps Ø 1" 1/2 F , ring nuts Ø 1" 1/2 F , collar fixings, insulation designed for heating and cooling.

DISTRIBUTION MANIFOLD: FEATURES

Technical Data	
Maximum working temperature:	80°C
Maximum working pressure	6 bar
Female threaded connections	UNI ISO 228/1
Male threaded connections	UNI ISO 228/1
Suitable fluids	Water or water/glycol mixtures (max. 30%)

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DISTRIBUTION MANIFOLD: MATERIALS

COMPONENT	MATERIAL
Manifold	AISI 304
Hydraulic seals	EPDM screw

COMPONENT	MATERIAL
Fittings	Brass UNI EN 12164 - CW614N
Insulation	PE 15mm
Insulation density	60kg/m3
Thermal conductivity insulation	0.04 W/mK

HYDRAULIC SEPARATOR

Vertical hydraulic separator (can be combined with manifolds with centre distance 80 and 125), with an internal device made of micro-stretched mesh that acts as an air and dirt separator.
Completely reversible, can be installed to the right or left with delivery upwards (bottom-up) or downwards (top-down) depending on system requirements.
Complete with automatic air vent valve, drain valve, ring nuts Ø1" 1/2 F, insulation designed for heating and cooling.

HYDRAULIC SEPARATOR: FEATURES

Technical Data	
Maximum working temperature:	80°C

Technical Data	
Maximum working pressure	6 bar
Separator inlet connections	1" F
Separator outlet connections	1" 1/2 F
Thread standard	UNI ISO 228/1
Suitable fluids	Water or water/glycol mixtures (max. 30%)

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HYDRAULIC SEPARATOR: MATERIALS

COMPONENT	MATERIAL
Separator body	AISI 304
Hydraulic seals	EPDM
Fittings	Brass UNI EN 12164 - CW614N
Insulation	PE 15mm
Insulation density	60kg/m3
Thermal conductivity insulation	0.04 W/mK

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