

Pump groups FlowBox

DN 20, DN 25 and DN 32





FlowBox DN 20

- Light-weight
- Quick and simple wall installation with a single screw
- Space-saving unit
- Can be used in combination with traditional boilers as well as heat generators using renewable energy sources
- Simple conversion of supply / return
- Flat-sealing screw connections
- All Watts pump groups and boiler manifolds are of uniform design
- Standardized solution for OEMs, wholesale and industrial applications

• Patented three-part EPP heat insulation shell conforming to GEG (German Buildings Energy Act), certified by Fraunhofer Institute.

Diverse requirements

Today, designers of heating systems benefit from a wide range of available concepts and options. Depending on the architectural and functional requirements, a large variety of pump groups can be taken into consideration. Two basic types of pump groups need to be distinguished:

- Pump groups for **unmixed heating systems (HK20)**
- Pump groups for **mixed heating systems (HKM20/HKF20/HKFC20)**

Mixed heating systems include a mixer to lower the supply temperature provided by the heat generator by adding cool water from the return and thus achieving a temperature level that corresponds to the actual heat requirement. Today's state-of-the-art boilers (e.g. condensing boilers), on the other hand, operate with varying supply temperatures and therefore do not normally require a mixer. However, a few special use cases may still require a mixer:

- Heating systems that include multiple heating circuits with different flow temperatures (e.g. the heated towel rail in the bathroom has a higher flow temperature than the floor heating system in the living room).
- Heating systems with buffer tanks (e.g. biomass plants, cogeneration units (CHP), solar thermal systems, heat pumps or combined installations).

Solutions made by Watts

The FlowBox HK20 pump groups and the FlowBox HKM20, HKF20 and HKFC20 pump mixer component groups are used to distribute hot water from the heat generator to the load circuits or heat accumulators. They may also be used in cooling circuits (the permissible medium temperatures of the circulating pumps must be observed).



FlowBox HK20

Pump groups for unmixed heating circuits (e.g. radiators, fan heaters, boiler charging etc.).



FlowBox HKM20

Pump groups for unmixed heating circuits. A newly developed 3-way mixing valve with 3-point actuator (external control signal).



FlowBox HKF20

Pump groups with thermostatic 3-way mixing valve for the flow temperature setting.



FlowBox HKFC20

Pump groups with 3-way mixing valve and actuator with integrated temperature control.

Key features and benefits



- Light-weight: easy handling and transport
- Space-saving unit (DN20) that is ideally suited for combined installations with oil / gas boilers or heat generators using renewable energy sources (e.g. solar thermal systems, heat pumps, cogeneration units (CHP) or biomass plants)
- Equally suited for new buildings and energy-saving renovation of existing buildings
- Flat-sealing G1" screw connections
Quick and easy connection with the heating system
- Can be used as a standalone device or integrated with boilers, interface units and other applications
- Quick and simple wall installation with a single screw
- Supply ball valve (multi-purpose valve) with adjustable gravity brake, thermometer (0-120 °C) and integrated temperature sensor connector
- Newly developed 3-way mixing valve (protected design) with very few single parts and sealing surfaces The actuator can be integrated in several directions. Supply and return are easily switched from right to left.
- Concealed cable routing behind insulation on the left or right, top or bottom
- Highly effective heat insulation due to patented three-part EPP insulation shell conforming to GEG (German Buildings Energy Act), certified by Fraunhofer Institute
- A boiler manifold for connecting up to three pump groups is available
- All Watts pump groups and boiler manifolds are of uniform design
- Standardised solution for OEMs, wholesale and industrial applications





FlowBox DN25 and DN32

- All pump groups are available for unmixed and mixed heating circuits
- Space-saving units with dimensions from DN25 to DN32
- Various enhancements and accessories are available

• Patented three-part EPP heat insulation shell conforming to GEG (German Buildings Energy Act), certified by Fraunhofer Institute.

Additional pump groups

In addition to the FlowBox DN20, Watts offers a wide range of additional pump groups for the diameters DN25 and DN32. Matching boiler manifolds are available as accessories in various dimensions.



FlowBox HK25 and HK32

Pump groups for connecting heat generators to unmixed heating circuits; available in the dimensions DN25 and DN32.



FlowBox HKM25 and HKM32

Pump groups for unmixed heating circuits. 3-way mixing valve with 3-point actuator (external control signal); available in the dimensions DN25 and DN32.



FlowBox HKF25

Pump groups with thermostatic 3-way mixing valve for the flow temperature setting; available in the dimension DN25.



FlowBox HKFC25

Pump groups with 3-way mixing valve and actuator with integrated temperature control. available in the dimension DN25.

Product range

The complete product range with technical documentation can be found under:

<https://wattswater.eu/catalog/pump-groups>



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