

# Pump groups

mixed HKM and unmixed HK, DN20, DN25 and DN32





### FlowBox HK20/HKM20

- 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 EnEV (German Energy Saving Ordinance), 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)**

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 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

This variant is used in load circuits with separate supply temperature control (e.g. radiators, fan heaters, boiler charging, brine extraction for heat pumps etc.).



### FlowBox HKM20

For use in load-dependent supply temperature control by means of a newly developed 3-way mixing valve with 3-point actuator. The actuator signal is generated by an external controller (e.g. boiler controller).



## 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 EnEV (German Energy Saving Ordinance), 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



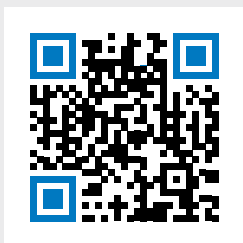




### FlowBox HK/HKM25 and HK/HKM32

- All pump groups are available for unmixed and mixed heating circuits
- Space-saving units with dimensions from DN20 to DN32
- Various enhancements and accessories are available

• Patented three-part EPP heat insulation shell conforming to EnEV (German Energy Saving Ordinance), certified by Fraunhofer Institute.



## Additional pump groups

In addition to the FlowBox HK20/HKM20, 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.



### HK pump group

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



### HKM pump group

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

## Supply range

Model	Part no.	DN	Pump	Options
HK20 YonPARA 15/6	10077142	20	Wilo	
HK20 UPM3 A 15-70	10077143	20	Grundfos	
HK20 w/o pump	10077144	20	–	
HK20 YonPARA 15/6 w/o KH	10080124	20	Wilo	w/o shut-off ball valve
HKM20 4.0 YonPARA 15/6	10077145	20	Wilo	
HKM20 4.0 UPM3 A 15-70	10077146	20	Grundfos	
HKM20 4.0 w/o pump	10077147	20	–	
HKM20 6.3 YonPARA 15/6	10080078	20	Wilo	
HKM20 6.3 UPM3 A 15-70	10080077	20	Grundfos	
HKM20 6.3 w/o pump	10080076	20	–	
HKFC20 YonPARA 15/6	10080110	20	Wilo	Mixing actuator with temperature control
HK25	10026264	25	Grundfos	
HK25	10026265	25	Wilo	
HK25	10026450	25	–	
HK25-KH	10026635	25	–	with ball valve
HK32	10026880	32	Grundfos	
HK32	10026879	32	Wilo	
HK32	10026881	32	–	
HKM25 6.3	10026266	25	Grundfos	
HKM25 6.3	10026263	25	Wilo	
HKM25 6.3	10026451	25	–	
HKM32 18	10026882	32	Grundfos	
HKM32 18	10026884	32	Wilo	
HKM32 18	10026883	32	–	

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