

HERZ - Pump group Simple for radiant heating systems

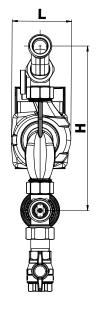
Datasheet for 3 F532 3X Issue 0321

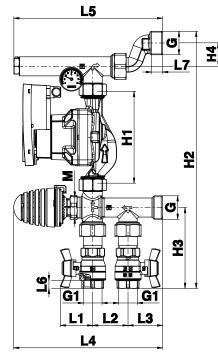
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Dimensions in mm





Order number	M* [mm]	G* [in]	G1** [in]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	Weight [kg]	Model
3 F532 34	M30 x 1,5	1	3/4	233 ₋₆₆	130	364	117	33	84	45,6	50	49	210	210	11	20	4,8	with pump
3 F532 36	M30 x 1,5	1	3/4	1	/	/	117	33	1	45,6	50	49	210	210	11	20	3,2	without pump

Material and construction

Mixing valve body: Spacer body: Holland connector: Eccentric piece: Gaskets: Non-return valve body: Measuring range of thermometers: External threads: Internal threads: Internal thread: Contact thermostat: Thermostatic head: Pump: forged brass acc. to EN 12165; CW 617N forged brass acc. to EN 12165; CW 617N forged brass acc. to EN 12165; CW 617N casted brass acc. to EN 1982; CC753 EPDM POM 0 - 80 °C acc. to ISO 228-1 acc. to ISO 228-1 acc. to ISO 7-1 Afriso GAT/7HC 1 **9420** 88 (20 °C - 50 °C) 3 **F532** 34 - WILO PARA 15-130/6-43/SC 3 **F532** 36 - without pump

Field of application

Pump group SIMPLE is used in high-temperature heating systems when there is a need to warm up low-temperature heating system - radiant heating (floor / wall heating). The set consists of mixing valve with thermostatic head, non-return valve, spacer, immersion sleeve, contact control thermostat, two holland connectors and two ball valves with holland connectors. Mixing set controlls secundary heating circuit by which it controlls the temperature in room (depending on the needs). Supply flow temperature can be regulated to a constant value or according to the needs of the user.

Assembly

Pump group SIMPLE for underfloor heating can be mounted directly on high – temperature heating system. The mounting position is arbitrary. By using the connectors with free moving nut we can mount the mixing set directly to the distributors for floor heating systems. Connections on the pump are not completely screwed in, as the installer can adjust the position of the pump to its needs. After assembly, the installer must check connections on the pump for water tightness. In case there are impurities in the medium (hard water, dust, etc.) it must be installed a filter, otherwise impurities may damage the valve seals. Included contact thermostat Afriso GAT / 7HC protects the system from overheating. Authorized installer set the max. temperature on the outlet and mounts the contact thermostat on the upper mixing unit (position 6 on components picture, page 3).

🛛 Brass

HERZ use top-quality brass that responds to the latest European norms DIN EN 12164 and DIN EN 12165. Parts of the pump group Simple are made from brass due to its good strength and excellent corrosion resistance.

Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1 % (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.



🖾 Maintaince

According to EN 806-5 (point 6. Operation) valves should always be in their fully opened or closed position and actuated at regular intervals to ensure they remain operational. Therefore HERZ Ball valves should be closed and opened periodically at least twice a year. This prevents the ball valve from blocking, reduces sediment deposition and reduces the possibility of corrosion inside the valve.

Disposal instructions

The disposal of HERZ - Pump group Simple must not endanger the health or the environment. National legal regulations for proper disposal of the HERZ - Pump group Simple have to been followed.

Operating data

Nominal pressure:6 barMax. operating temperature:110 °C (suggested max. 50 °C)Min. operating temperature:2 °Ckvs -AB-A:5,0kvs -AB-B:3,8Stroke of the mixing valve:3,7 mmPressure difference between circuits: Δp_{primary c} > p_{secondary c}

Medium:

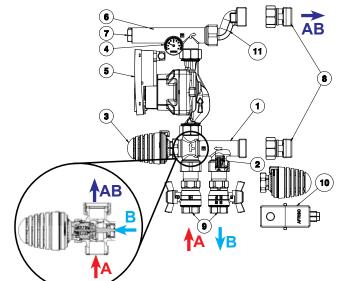
Heating water according to ÖNORM H5195 or VDI- Standard 2035. The use of ethylene, or propylene glycol in a mixing ratio 25- 50% is allowed. EPDM gaskets can be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection.

Components and labels of HERZ Pump group Simple

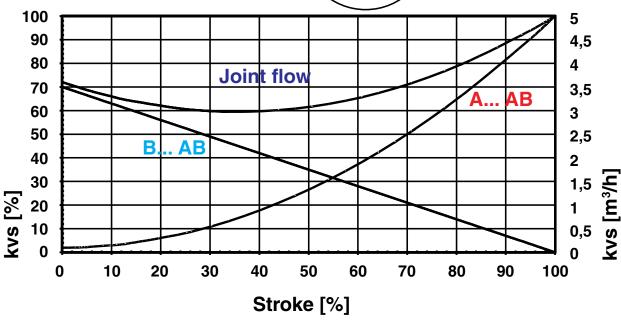


- 2. Non-return valve
- 3. Thermostatic head 1 9420 88
- 4. Termometer of inlet flow
- 5. Circulation pump Wilo PARA 15-130/6-43/SC (3 F532 36 space for pump)
- 6. Spacer
- 7. Immersion sleeve
- 8. Connectors with free moving nut
- 9. Ball valves
- 10. Contact control thermostat
- 11. Eccentric connector

*each set contains 4 additional pcs of EPDM gaskets for flat sealing, 2 connectors with free moving nut.



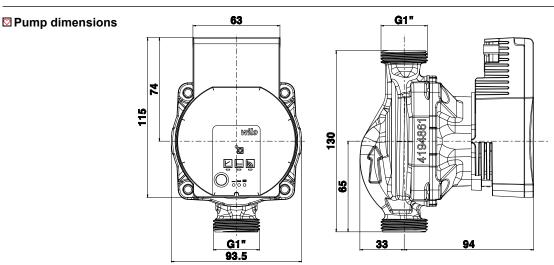
Mixing valve characteristic





HERZ - Pump group Simple Circulation pump used in HERZ - Pump group Simple

General information

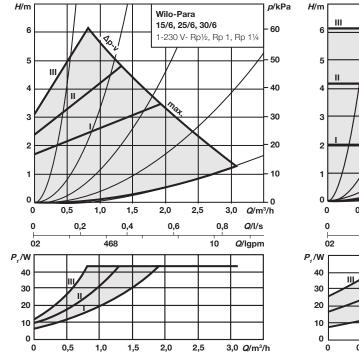


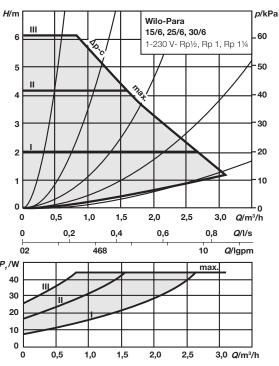
Pump data

Type:	WILO PARA 15-130/6-43/SC
Thread:	G 1"
Overall length:	130 mm
Energy Efficiency Index (EEI):	≤ 0,20
Max. delivery head:	6,7 m
Max. volume flow:	3,2 m3/h
Max. operating temperature:	100 °C
Maxi. operating pressure:	10 bar
Mains connection:	1~230 V +10%/-15%, 50/60 Hz (IEC 8 standard voltage)
Protection class:	IPx4D
Insulation class:	F
Minimum suction head at suction	on port to avoid cavitation at water numping temperature

Minimum suction head at suction port to avoid cavitation at water pumping temperature Minimum suction head at 50/95 °C: 0.5 / 4.5 m

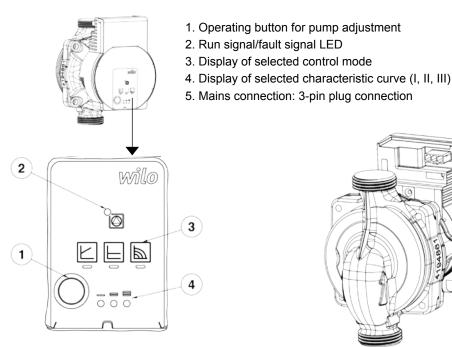
Pump hydraulic operation area







Product description



☑ Indicator lights - LEDs



Commissioning

Commissioning only by qualified technicians.



The pump attempts an automatic restart upon detecting a blockage. If the pump does not restart automatically:

- Activate manual restart via the operating button: press and hold for 5 seconds, then release.

- The restart function is initiated, and lasts max. 10 minutes.
- The LEDs flash in succession clockwise.

- To cancel, press and hold the operating button for 5 seconds.



After the restart, the LED displays shows the previously set values of the pump.

- 5
- Signal display
- · LED is lit up in green in normal opertaion
- · LED lights up/flashes in case of a fault
- Display of selected control mode Δp -v, Δp -c and constant speed
- Display of selected pump curve (I, II, III) within the control mode

- LED indicator combinations during the pump venting function, manual restart and key lock



Venting



Fill and vent the system correctly. If the pump does not vent automatically:

- Activate the pump venting function via the operating button: press and hold for 3 seconds, then release.

- The pump venting function is initiated and lasts 10 minutes.
- The top and bottom LED rows flash in turn at 1 second intervals.
- To cancel, press and hold the operating button for 3 seconds.



After the restart, the LED displays shows the previously set values of the pump.

Electrical connection

May only be installed by qualified technicians.

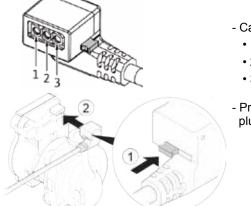
- The current type and voltage must correspond to the specifications on the rating plate.
- Maximum back-up fuse: 10 A, slow-blow.
- Only operate the pump with sinusoidal AC voltage.
- Note the switching frequency:
- On/off switching operations via mains voltage ≤ 100/24 h.
- ≤ 20/h for a switching frequency of 1 min. between switching on/off via mains voltage.

- The electrical connection must be made via a fixed connecting cable equipped with a connector device or an all-pole switch with a contact opening width of at least 3 mm.

- Use a connecting cable with sufficient outer diameter (e.g. H05VV-F3G1.5) to protect against leaking water and to ensure strain relief on the threaded cable connection.

- Use a heat-resistant connecting cable where fluid temperatures exceed 90 °C.
- Ensure that the connecting cable does not make contact with either the pipes or the pump.

Connecting the mains cable



- Cable assignment:
 - 1 yellow/green: PE
 - 2 blue: N
 - 3 brown: L

- Press down the locking button of the 3-pin pump plug and connect the plug to the plug connection of the control module until it snaps into place.

☑ Intended use

High-efficiency circulators in the Wilo-Para series are exclusively intended for circulating fluids in hot-water heating systems and similar systems with constantly changing volume flows.

Permitted fluids:

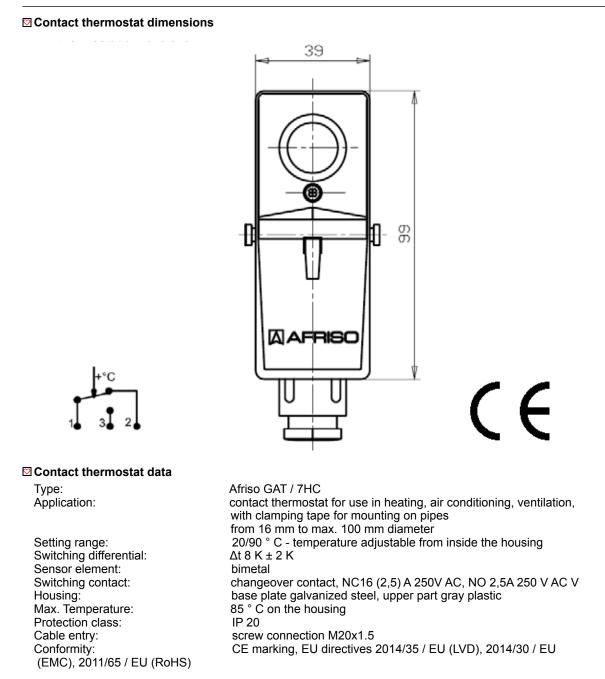
- Heating water according to VDI 2035 (CH: SWKI BT 102-01) or ÖNORM H 5195.

- Water-glycol mixtures* with a maximum of 50% glycol.

*Glycol has a higher viscosity than water. If admixtures of glycol are used, the pumping data of the pump must be corrected to match the mixing ratio. Intended use includes observing these instructions and the specifications and markings on the pump.

HERZ - Pump group Simple Contact thermostat used in HERZ - Pump group Simple

General information



Safety instructions:

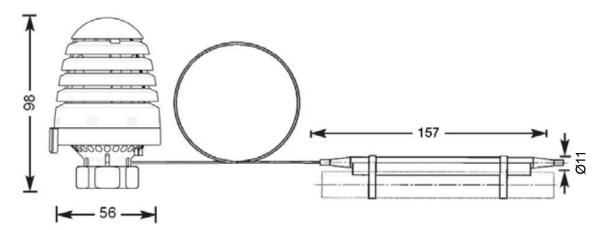
There is a risk of electric shock, injury or death. Installation, commissioning, repair and decommissioning are carried out by qualified persons in accordance with the statutory provisions. Work on electrical parts may be carried out only by a qualified electrician. From the power supply disconnect device before removing the cover of the unit or if the cover is damaged. Never touch live parts! Check the heat resistance of the pipes. Dispose of the appliance in the household waste. Device disposal according to local regulations (electrical equipment).

HERZ - Pump group Simple

Thermostats with Contact Sensor used in HERZ - Pump group Simple

General information

Contact thermostat dimensions



Thermostat data

Туре:	1 9420 88
Setting range:	20–50 °C
Max. differential pressure:	0.75 bar for low-noise operation should not exceed 0.2 bar
Capillary tube length:	2000 mm
Hysteresis:	0,3 K
Heating medium temperature influence:	0,15 K / 10 K
Over-temperature protection:	10 K over full scale value

Field of application:

HERZ-Thermostat with floor thermostat, consisting of thermostat with liquid sensor (hydrosensor), capillary tube and tube probe (M30 x 1.5). It can be mounted on all HERZ valves, which are designed for thermostatic operation.

☑ Installation instructions:

1. Unscrew the screw cap or hand drive from the thermostatic valve lower part.

2. Fully open the thermostatic head, place the union nut on the valve. Turn the thermostatic head so that the handwheel scale is easy to read.

3. Tighten the union nut moderately with the SW 30 wrench.

4. Check operation by turning the handwheel and adjust the thermostat to the desired temperature.

Contact sensor

The contact sensor is attached to the pipeline by means of clamps, but can also be plugged into a diving sleeve. Proper heat transfer must be ensured.

Setting of the thermostats with Contact Sensor

The desired temperature limitation can be achieved by following temperature values. Some deviations of temperature (K) can occur depending on the type of installation and the system design.

Skala	1	2	3	4	5	6	7
~ °C	20	25	30	35	40	45	50



🖾 Spare parts

Sketch	Description	Article Nr.	Pcs.
	Thermometer 0 - 80 °C	1 6383 01	1
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Adapter 1" - G1-1/4" It is used for connecting the Pump group Simple with the floor heating distributor. G = 1" G1 = 1- 1/4" SW = 41	1 6383 08	2
SW G	Adapter G 1" It is used for floor heating manifolds where the wheelbase is (H) 220 mm. G = 1" SW = 36	1 6383 04	1
ĸ SW-	Connector with free moving nut G1" - R1" It is used for connecting the Pump group Simple with the floor heating distributor. G = 1" R = 1" SW = 36	1 6383 06	2
SW SW1	Eccentric connector G1" It is used for connecting the Pump group Simple with the floor heating distributor. G = 1" G = 1" SW = 36 SW1 = 26 L = 33	1 6383 09	1
	Upper mixing unit G = 1" SW = 36 Ø = 12	1 6383 10	1
	Lower mixing unit G = 1" SW = 36 M = 30x1,5	1 6383 11	1
	Ball valve with free moving nut G = 3/4" G1 = G1" L = 80	1 6383 12	1



☑ Example of system with HERZ products

