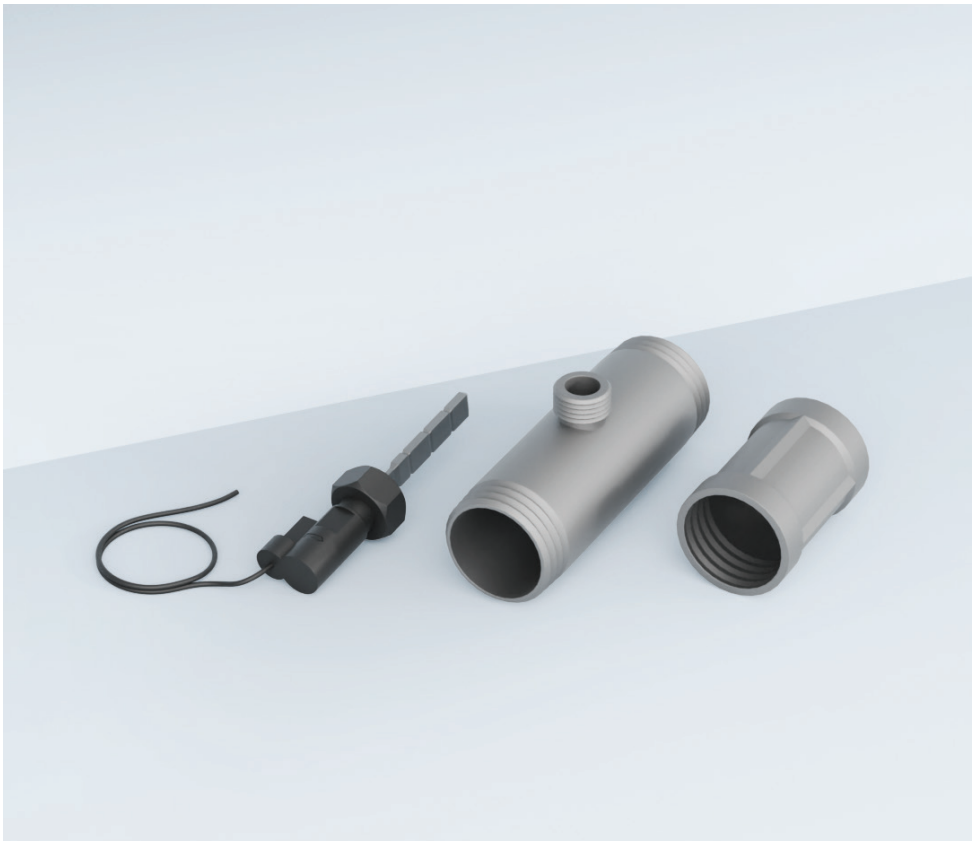


FLOW CONTROL FUNCTION



FLOW CONTROL FUNCTION

Water flow control functions is intended for additional protection of water coil. Flow sensor is monitoring water movement inside of the pipe and will trigger alarm signal to C5 automation, in case if flow is drastically decreased or stopped. Water flow may stop due to broken water pump, stuck regulation valve or water absence in the system. In negative air temperatures, stopped water flow may lead to frozen and damaged water coil or pump.

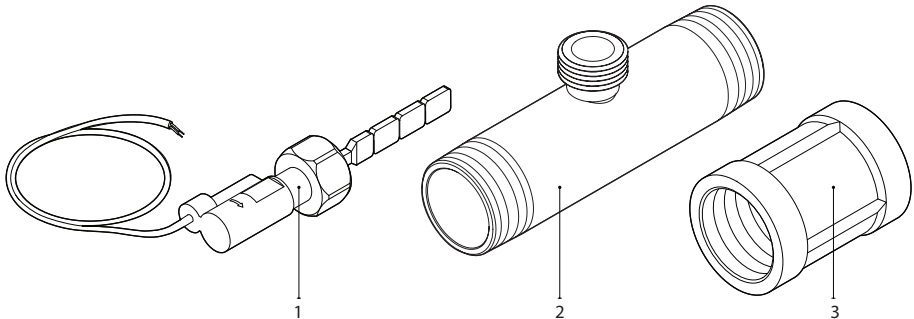


Fig. 1. Water flow function kit
1 – water flow sensor, 2 – mounting tee, 3 – pipe connector

When mounting flow sensor it is important to adjust it according size of the mounting tee (where sensor to be installed). Baffle of the sensor consists of four segments, which can be cleaved using wire cutters according to the tee diameter:

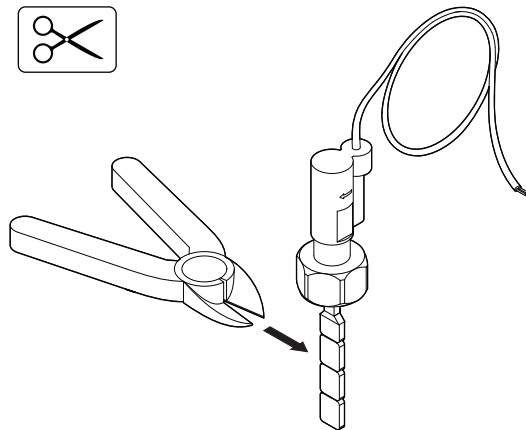


Fig. 2. Cutting segments of sensor baffle

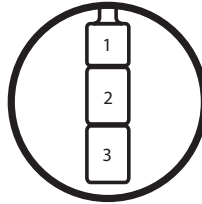
DN15, DN20, DN25
1/2", 3/4", 1"



DN32, DN40
1 1/4", 1 1/2"



DN50
2"



DN65
2 1/2"

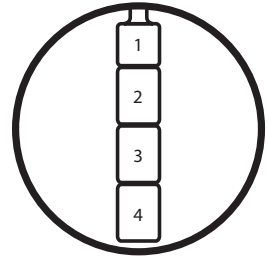


Fig. 3. Flow sensor baffle length according pipe diameter

Flow sensor to be screwed in to the mounting tee, which will be connected to the return water pipe of the coil via included pipe connector. Tee must be mounted as close to the water coil as possible.



Flow sensor must be installed in a way, that arrow on it's casing is parallel to the water flow and pointing the same direction as water goes. Sensor baffle must be perpendicular to water flow.

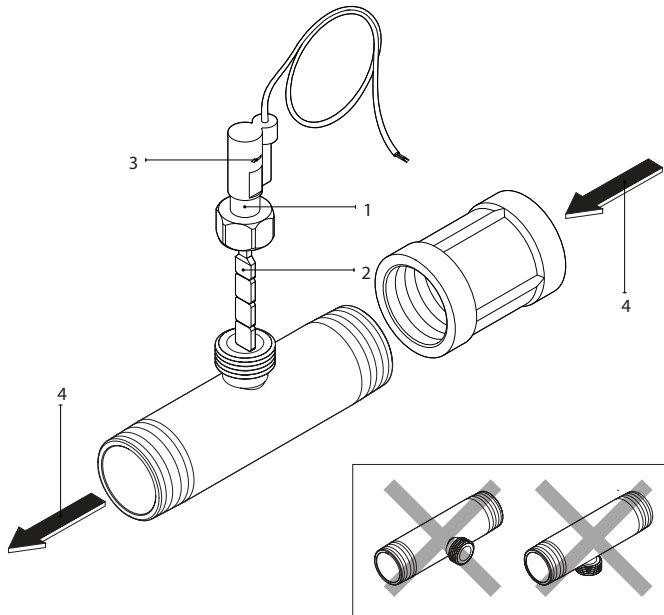


Fig. 4. Installation of flow sensor
1 – water flow sensor, 2 – flow sensor baffle,
3 – mounting position arrow, 4 – water flow direction



Mounting tee must be installed in a way that flow sensor baffle is perfectly vertical and pointing downwards.

To C5 controller board flow sensors cable should be connected to terminals 47-48 of C5 controller board, instead of factory mounted wire link.

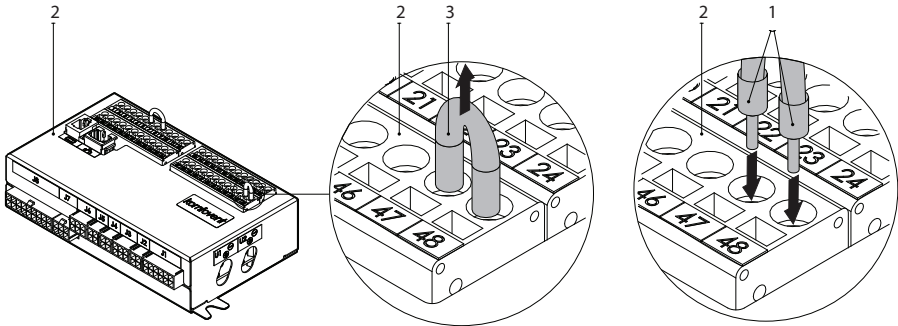


Fig. 5. Flow sensor connection to C5 board
1 – flow sensor cable, 2 – C5 controller board, 3 – wire link

Water flow is monitored only when water circulation pump should be running. If there is no demand for water heating/cooling at the moment, flow control function is temporary off. Flow control also is active when water pump is started on demand of coil frost protection function.

Flow sensor closes output contacts when there is water flow and opens contacts in case if water flow is significantly reduced or stopped. By default, flow control function is configured in a way, that if flow sensor output contacts are open for longer than 30 s, AHU will be stopped and alarm message displayed on the control panel.

Function can be disabled or it's settings configured by Komfovent service representative, when connected to the AHU with a computer (Service->Functions->Circulation pumps control).

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