✓ Check List

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Multi-Function-Filter MF_2

Water runs out from the cover of the MF_2:

- *The MF_2 has too high pressure (water is pumped too high; the MF_2 is operated in down-stream mode).*
  Action: change the operation mode of the filter: e. g. upstream operation
  Action: grease the seal with vaseline or silicone grease.
  Action: increase the contact pressure of the cover by using thumbscrews to additionally fasten the cover.
- *The seal in the lid is defective or missing*
  Action: insert a new seal and lubricate it with silicone grease or vaseline.
- *The additional connection in the cover is not correctly sealed.*
  Action: Please seal additional fittings with teflon tape or similar; carefully tighten the blind plug with a wrench.

The MF_2 is blocked in upstream mode (from bottom to top):

- *The bottom sieve in the base plate of the MF_2 is clogged by coarse dirt particles.*
  Action: pump only clear water into the filter (use a pre-filter)
- **Action:** install a drain valve in the additional connection of the base plate; then you can open the valve from time to time and drain off the dirt.
- **Action:** remove the bottom sieve for coarse filter materials

The MF_2 has air in the main pipe during downstream operation (from top to bottom):

- *There are very small air bubbles in the inlet water, which accumulate in the main pipe.*
  Measure: pump bubble-free water into the MF_2 (check inlet pump)
- *The reactor is not vented*
  Action: Install a vent valve in the cover (supplementary connection) and connect a hose. Draw the air out of the MF_2 and close the valve.

The filter material does not whirl in the MF_2 main tube during fluidized bed or circulating operation:

- *The bottom sieve in the base plate of the MF_2 is clogged by coarse dirt particles*
  Action: pump only clear water into the filter (use a pre-filter)
  Action: install a drain valve in the additional connection of the base plate; then you can open the valve from time to time and drain off the dirt.
  Action: use the lower sieve only for very fine filter materials (e. g. quartz sand)
- *Too little water is pumped through the filter.*
  Action: increase the pump capacity that pumps into the filter.

- *The filter material cannot be pumped through the water flow into the central tube.*
  Action: pull the central tube a little bit upwards: 5-10 mm distance to the lower inlet opening is ideal.

The filter material hangs on the upper filter:

- *Too much water is pumped into the MF_2*
  Action: throttle the supply through an adjustment valve or with a weaker feed pump.
- *The filter material is lighter than seawater*
  Action: change the procedure to reverse circulation (reverse vertical flow) or reverse fluidized bed

AquaCare +Globuli get caught in MF_2 and are no longer swirled around:

- *Too little water is pumped into the MF_2*
  Action: increase the flow rate to MF_2
- **Action:** use the magnet set to release the blockage of the globules from the outside (without having to open the filter).