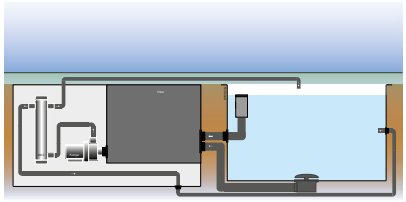
SOLUTIONS FOR DIFFERENT INSTALLATION SITUATIONS

INSTALLATION EXAMPLES

The installation situation influences the function and operational reliability of a filter system. Depending on pond size, space conditions and technical requirements, different installation concepts are used.

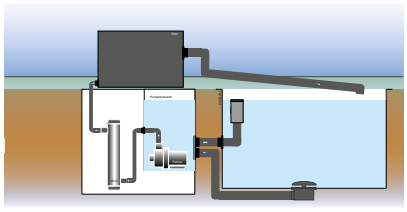
The following examples serve as a guide for planning proven installation variants of multi-chamber filters.



Gravity principle

With the gravity principle, water flows without pressure via bottom drains and/or skimmers into the multi-chamber filter. The multi-chamber filter is typically installed 3–5 cm above the water surface to ensure a safe water level in the system.

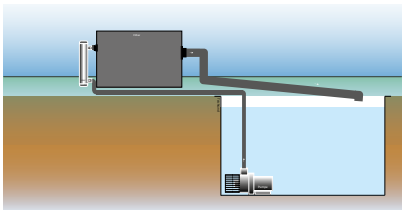
Bottom drains and skimmers are controlled separately, allowing targeted inlet management and balanced water routing between bottom drain and skimmer. This installation type is preferred for koi ponds and performance-oriented pond systems.



Gravity/pumped version

In the gravity/pumped version, water first enters a pump chamber upstream via bottom drains and/or skimmers without pressure. From there it is actively pumped into the multi-chamber filter, which is installed above the water surface.

Bottom drain and skimmer are also controlled separately in this installation type to manage the inlet in a targeted manner and ensure balanced water routing. The combination of gravity inlet and pump delivery enables flexible placement of the filter system while maintaining controllable system operation.



Pumped version

In the pumped version, the pump is located directly in the pond and actively pushes water into the externally installed multi-chamber filter. After mechanical and biological cleaning, the water is returned to the pond via the return line.

This installation type is technically easy to implement and is particularly suited for smaller pond systems, limited space or retrofitting existing ponds.

INSTALLATION EXAMPLES – GUIDANCE FOR PLANNING

The installation examples shown demonstrate that multi-chamber filters can be flexibly adapted to different pond situations. Clear identification of the installation variant simplifies planning, increases operational reliability and creates the foundation for stable filter operation.