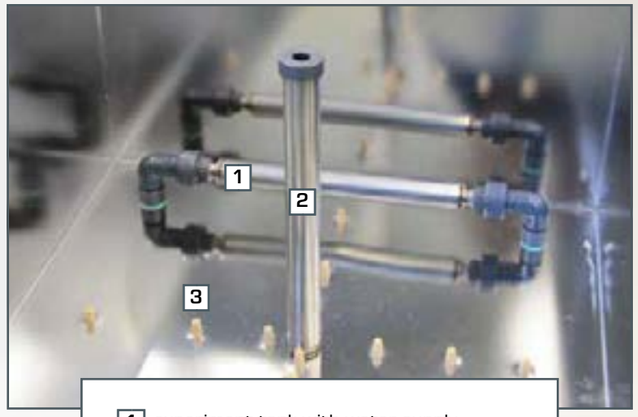
HM167
Ground water flow

Many structural measures have an impact on the groundwater level. This may be the case for example in usage of groundwater, in flood prevention or in remedial measures. Exact knowledge of the effects of such structures on the groundwater level is therefore an important foundation for planning for environmental engineers.

We have developed our HM167 device in order to practically teach such issues. The trainer allows you to represent typical structural scenarios and to investigate their influence on the groundwater flow in three dimensions.

The core element of HM167 is an experiment tank filled with sand or gravel. You can use different models in the experiment tank to simulate structures. The models can be used to study dykes, excavation pits and wells.

Models for installation in the experiment tank



1 experiment tank with water supply
2 well
3 measuring points for groundwater level

The experiment tank is fitted with an inlet at both ends. The study of various drainage processes is made possible by two wells. You can activate the inlets and wells independently of each other. This results in many experimental possibilities.

In order to determine the groundwater levels, the experiment tank is equipped with a total of 19 measurement points. The groundwater levels are clearly displayed on tube manometers. In addition to the tube manometers, scales on the side allow for easy and accurate reading of groundwater levels.

Learning objectives

- determining the groundwater level
- lowering of groundwater level via two wells
- groundwater flow on excavation pits
- groundwater studies under concentric load on the substrate

About the product: