CE582 Water treatment plant 2

Water treatment with sand filter and ion exchanger

This device allows you to clearly demonstrate and investigate the features of multistage water treatment. A sand filter and two ion exchangers are available for this purpose.

With the sand filter the didactic focus is the investigation of the pressure ratios in the filter bed. In order to measure the pressures, the sand filter is fitted with differential pressure measurement and a number of individual measuring points along the filter bed. These measurement points can be connected to a manometer panel, enabling you to measure the

pressure conditions in the filter bed very accurately. The manometer panel has 20 separate tube manometers. By using a transparent filter tube, you can also observe the increased loading of the filter bed visually. The sand filter can be rinsed

Ion exchange takes place after filtration. A cation exchanger and an anion exchanger are available for this purpose. The device also allows for regeneration of the ion exchanger.



4 storage tank for regeneration agent

5 tank for raw water and treated water

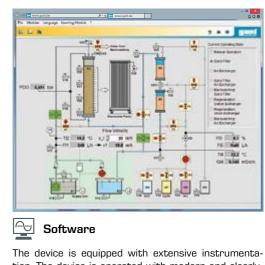
6 backwash pump



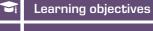
By using a transparent filter tube, you can also observe the increased loading of the filter bed visually as well as using the rise in pressure loss.



Standard at GUNT: use of professional instrumentation



tion. The device is operated with modern and clearlyarranged software. The software displays all measured process variables continuously. Of course, the software also allows you to save the measured values for analysis.







About the product: