



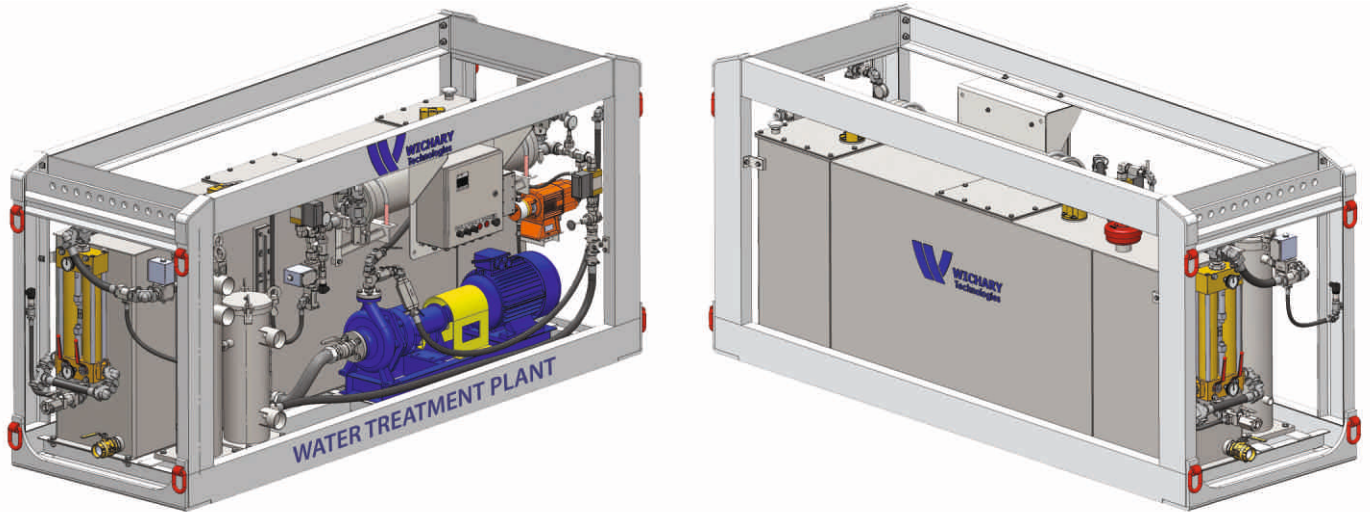
WATER TREATMENT PLANT **SUW-2**



Leading technologies

DESCRIPTION

The water treatment plant is designed for use in mining facilities where the water is heavily contaminated with chemical compounds, rendering natural water resources unusable in the technological process. The application of the water treatment plant provides access to purified water due to its demineralisation through reversed osmosis. Such water can be used to produce water-oil emulsion necessary for supplying the powered roof supports.



Operation parameters:

operating pressure	- up to 25 bar
nominal capacity	- up to 1000 l/h
input liquid	- raw water
output liquid	- demineralised water
max. liquid temperature	- 45° C
operation mode	- 24 h/day

CONTROL SYSTEM

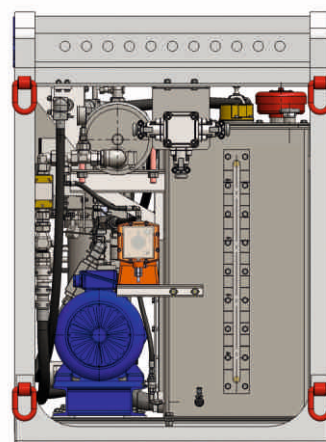
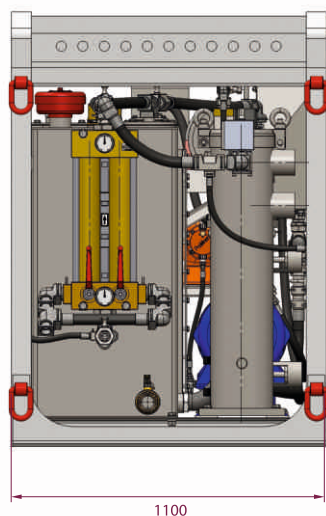
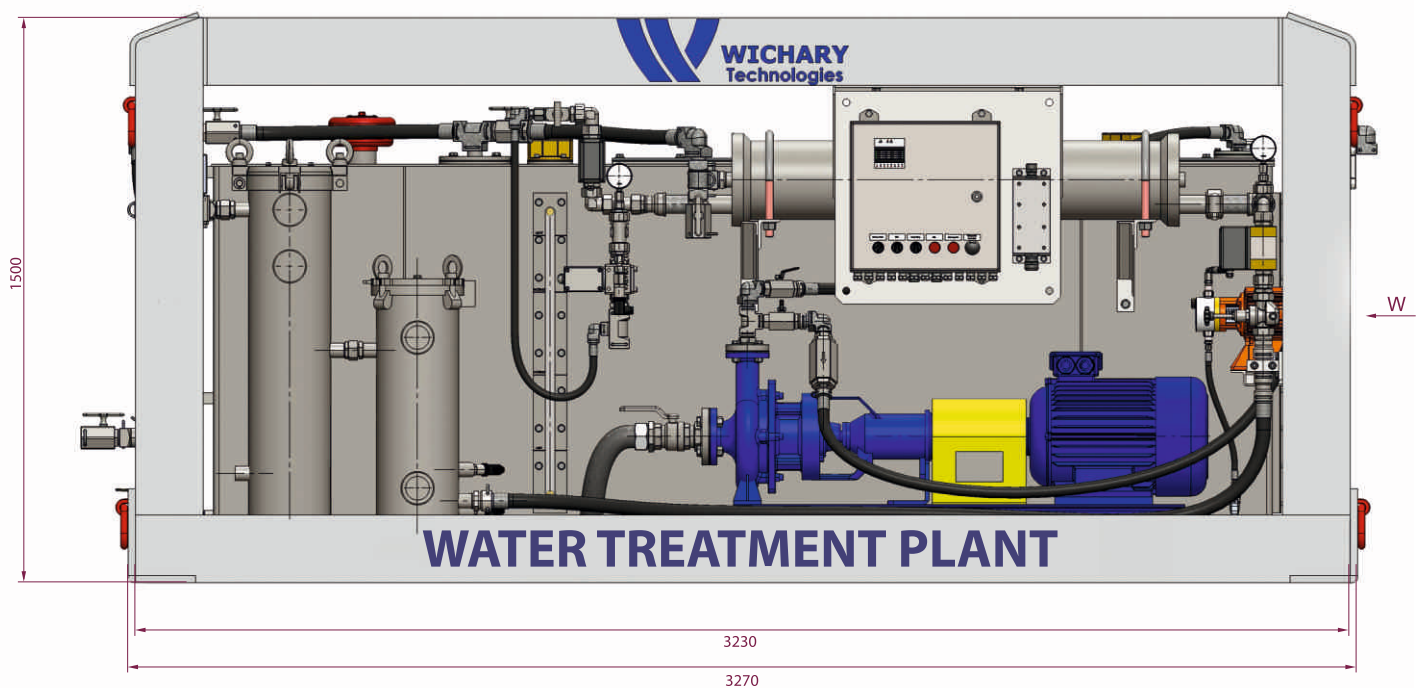
An own-designed digital controller allows:


- water level control and automatic maintenance of maximum level of treated water in a tank
- force pump operation control based on the information from a primary system on the need to replenish water in the emulsion tank
- control of the permeate volume and visual information on the necessity of replenishment
- control of the 5mi filter condition by applying pressure converters installed before and after the filter
- stepless regulation of permeate feeding to the membrane tank
- operation time tracking
- flow meters control and displaying
- forwarding the information to a primary system, visualisation on the surface

Advantages of using the water treatment plant

Removing excessive chemical compounds from the water used for producing a water-oil emulsion for powered roof supports provides correct and continuous longwall running. Using a SUW-2 water treatment plant allows to achieve required for harsh mining conditions water parameters, i.e. hardness and conductivity, sulfates and iron content.

OVERALL DIMENSIONS OF THE WATER TREATMENT PLANT





WICHARY Technologies Sp. z o.o. reserves the right to change the information provided in this document without a notification. This document does not constitute a commercial offer in view of legal regulations and is published exclusively for information purposes.

The company has an integrated quality management system ISO 9001 and work safety system PN-N18001.

01/07/2019/TG/EN



WICHARY Technologies Sp. z o.o.
42-625 Pyrzowice, ul. Centralna 6, POLAND
phone + **48 32 661 99 00**, fax + **48 32 661 99 99**
www.wichary.eu
wichary@wichary.eu