

A Scrubber – air filtration system 68 kW.



Picture 1. External view

The device is dedicated to control an air filtration system in Hot-Dip Galvanizing plant. During the process of the galvanizing a number of harmful compounds is formed. It is necessary to implement treatment of polluted air.

During operation the device reads state of level , conductivity and pressure sensors. It controls two 30 kW fans, a 7.5 kW pump and some solenoid valves.

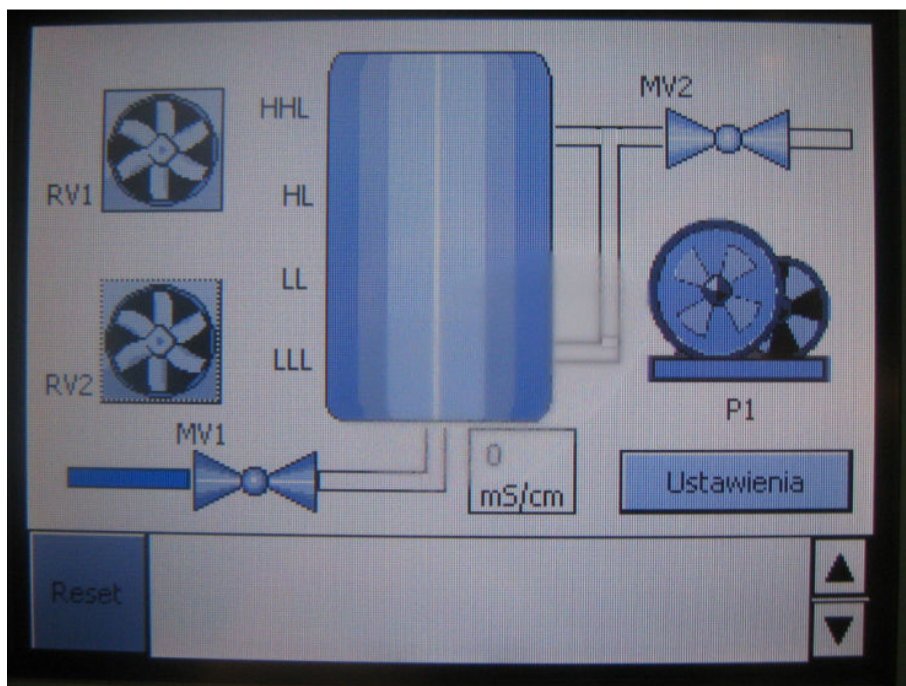
There are a Siemens PLC S7-1200 and Siemens KTP600 HMI installed in the system.

Key features:

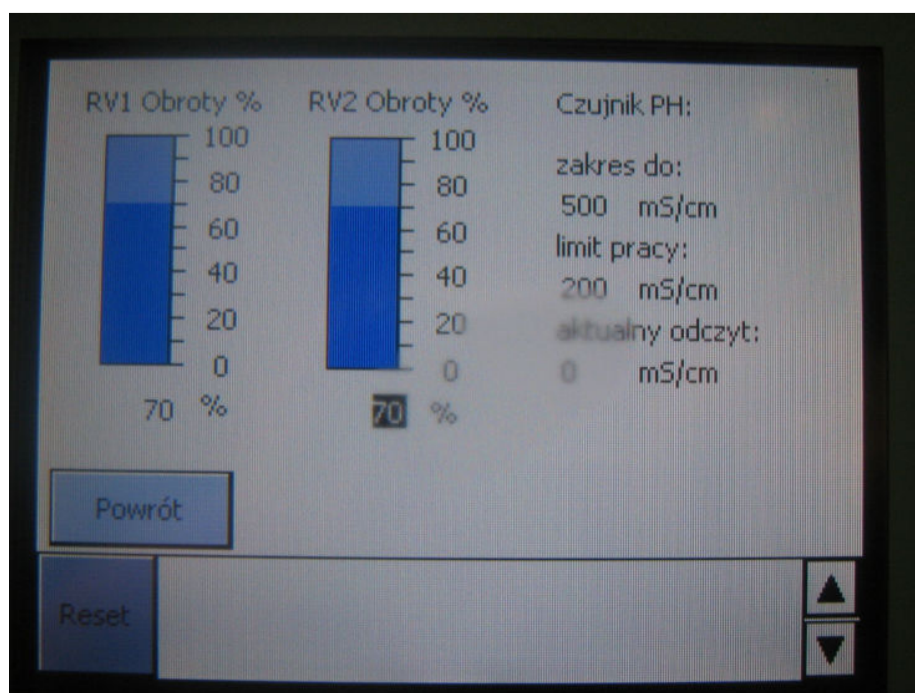
- ✓ Maintaining an adequate level of water in the scrubber tank.
- ✓ Adjusting variable speed of two 30 kW fans.
- ✓ Monitoring of contamination of water used for air filtration.
- ✓ Water replacement process in the scrubber tank.
- ✓ Process visualization on the HMI.
- ✓ Alarms list.



Picture 2. Internal view



Picture 3. Process visualization.



Picture 4. Drives speed adjustement