

## CASE STUDY

# Industrial Vertical Bed System (I-VBS)

Zao International Paper Plant



## THE PROBLEM

Located in Svetogorsk, Russia, the Zao International Pulp and Paper Mill (Zao) has been operating since 1887 and is one of the largest producers of paper products in the country. As with other paper mills, the Sveto plant struggled to protect its critical electronic equipment in control rooms from corrosion from hydrogen sulfide byproducts. Excessive resources were being spent on replacing damaged hardware and managing avoidable downtime events, prompting plant leadership to seek a reliable solution for removing hydrogen sulfide from the air and protecting the control rooms. Staff were equally pleased knowing that the removal of the unpleasant and irritating odors associated with hydrogen sulfide would create a more comfortable work environment.



## THE SOLUTION

PureAir's Industrial Vertical Bed System (I-VBS-302) model was chosen for the job. This particular unit was made of stainless steel and designed to handle 600 CFM of airflow. Further unit details included:

- Rectangular footprint with rough dimensions— 3ft width, by 4ft height, and 3ft depth
- Stainless steel, 2 HP, DRAWTHRU blower
- MERV 8 prefilter, and MERV 15 final filter
- 2 media beds with Sulphasorb™ and CPS Blend chemisorbant media
- Electronic media bed monitor

The final solution has performed exceptionally well for Zao, improving control room air quality and protecting critical equipment. As a result, the facility has experienced reduced downtime and fewer staff frustrations.

