

Progroup PM3 Papermill



SUMMARY:

Progroup's new PM3 paper mill plant is reinventing paper technology, showing the world that high production can be achieved through sustainable and environmentally friendly means. However, even this innovative facility which only uses recycled goods for production, emits corrosive gases as manufacturing byproducts, which over time could cause damage to the new equipment that the plant is utilizing. PureAir Filtration was recommended to Progroup and its contractor for installing gas phase filtration systems to remove the harmful sulfur compounds and ensure critical electronics were protected. The PM3 plant is set to start production at the end of 2020 and PureAir is happy to help the mill protect its new equipment and bottom line.

FAST FACTS

Client	Progroup AG
Industry	Industrial Paper Mill
Challenge	H ₂ S, SO ₂ , SO ₃ causing corrosion to equipment
Solution	Side access housing (SAH) systems, PA8 & Sulphasorb Media
Results	Purified air, protection against corrosion, less downtime and maintenance costs

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CHALLENGE:

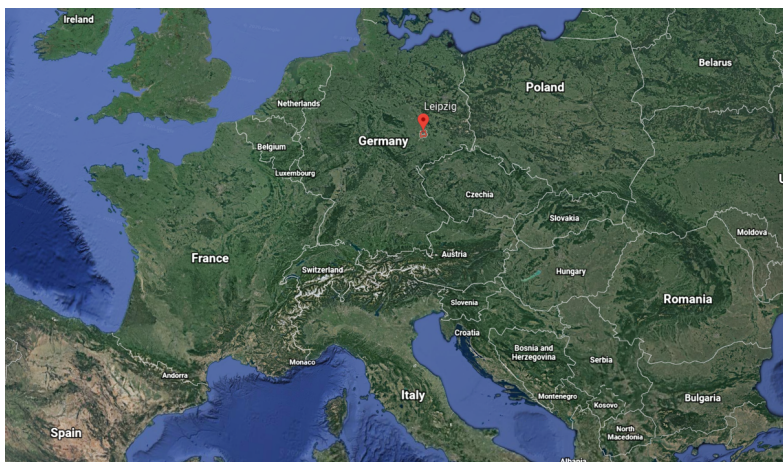
While many paper companies have struggled to meet today's changing market demands and lower costs, Progroup is growing at a rapid pace and setting records due to its innovative strategy. Their PM3 mill in Leipzig, Germany was built in a record breaking 18 months, and it is one of the most modern and high-performance facilities in the world, with a founding focus on sustainability and green technology. The company only uses recycled products as raw materials for paper production, and, the environmentally friendly mill, which is set to open in the winter of 2020, will have an annual capacity of 750,000 tonnes.

Finnish engineering company, Poyry (AFRY), handled the HVAC design for the site, and confirmed the need for gas-phase filtration units to remove the hydrogen sulfide (H₂S), sulfur dioxide (SO₂), and sulfite (SO₃), and other corrosive that were found in the air through Progroup test reports. Even trace amounts of corrosive gases could cause irreversible damage to critical hardware and data systems over time. Poyry (AFRY) recommended the contractor work with PureAir Filtration for the job, as PureAir was proving to be a strong contender in the gas phase filtration market due to superior customer service, comprehensive knowledge, and competitive pricing.



SOLUTION:

PureAir Filtration provided Side Access Housing (SAH) units with PurePak-12 modules filled with Sulphasorb and PureAir 8 media. The COVID-19 pandemic has delayed official commissioning of the plant, but PureAir delivered and installed the systems to customer specifications and is ready to train personnel on system use when the plant is fully operational in a few weeks. The systems and media will reduce corrosive gas levels and maintain those levels at G1 air quality in the control rooms. By doing so, PureAir will help Progroup lower long-term cost for the facility by preventing unscheduled downtime and maintenance costs. This increased margin will certainly help Progroup in its mission to double the size of the company by 2025 compared to that of 2015.



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