REFERENCE



BUILT FOR STORMS. PROVEN BY CUSTOMERS.

VILEDON® HYDROMAXX COALESCER PREFILTERS KEEP AMERICA POWERED. EVEN IN THE STORM FERN.

viledon®

In the winter, the North American continent is regularly flooded with Arctic air. Blizzards, cold waves, and other extreme weather events will become more frequent as climate change progresses. One such event was winter storm Fern, which brought more than 20 inches of snow in less than 24 hours and left large areas of the United States without power at the end of January. Heavy snowfall in particular poses a real challenge to natural gas power plants. Powdery snow clogs air intakes, reducing the amount of fresh air that reaches the turbine. High pressure drops put a strain on the plant, requiring reduced performance or even shutting down the turbine.

As snow quickly builds up and blocks airflow in typical cardboard-framed prefilters with zig-zag-shaped pleats (z-pleats), other design concepts are required. When installed as a prefilter, the Viledon® hydroMaxx coalescer mitigates the risk posed by heavy snowstorms. Thanks to its hydrophobic filter media and outward-pointing filter pockets, the coalescer prevents snow from becoming trapped on the filter surface and ensures effective drainage.



Consequently, sufficient airflow is maintained and the pressure drop only increases moderately during intense snowfall. Plant operators won't need to clear snow in the middle of the night to prevent shutdowns. Gas turbines can continue operating without reducing their load, protecting facilities and critical infrastructure from blackout situations.

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INNOVATING TOGETHER

The storm shuts others down. Viledon® hydroMaxx stays on.

Competing product



Viledon® hydroMaxx



Customer Voices

Our customers reportedly found that the advantages of the prefilter are more than just nice marketing promises, and they are pleased with the results.

"We had to clear the snow from all 1,008 filters from the snowstorm. Viledon® hydroMaxx filter worked great and was quick to knock the snow off."
– New Jersey-based customer

"During the storm, most of the turbines had to shut down due to overpressure and extremely low airflow caused by snow blockage and frozen intakes, except for the ones with Viledon® hydroMaxx!"
– North Carolina-based customer

"What a comparison! What used to happen during snow events vs. what happens now – that's out of business vs. still in business."
– New York-based customer

Further information can be found on our website **www.freudenberg-filter.com/tm/hydromaxx**



Viledon® hydroMaxx filter

CUSTOMER BENEFITS

- ✔ More performance and less downtime – little to no increase in pressure drop under harsh conditions
- ✔ Stable energy production even during heavy snowfall – steady airflow and low risk of critical clogging
- ✔ Reduced maintenance works and costs – fast snow removal and less manual clearing due to its self-cleaning capabilities
- ✔ Longer filter life – moisture resistance up to 100 % relative humidity

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Contact us
www.freudenberg-filter.com

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