

CASE STUDY

Customized Air Scrubber

Dannon Yogurt
Minster, OH

SUMMARY

After installing a biofilter to control odors at its Ohio wastewater treatment plant, Dannon Yogurt still faced complaints from nearby residents.

THE PROBLEM

Dannon Yogurt has a plant dedicated to making Greek yogurt in Minster, OH. Dannon features its own wastewater plant on site to manage the waste by-product of the cream used to make the yogurt.

Complaints from surrounding neighbors regarding odor began to filter in. Dannon installed a biofilter unit to remove hydrogen sulfide (H₂S) gas and other noxious odors. The biofilter removed the gas, but unfortunately created additional odors in the process. Dannon went to the biofilter manufacturer for assistance but was unable to obtain a solution.



THE SOLUTION

PureAir found that the biofilter was removing approximately 90% of the H₂S, but not removing other odors. A quick review of the biofilter resulted in a recommendation to place a customized air scrubber after the biofilter. The PureAir system was filled with high-capacity chemisorbant media, including Sulphasorb XL™ to remove residual H₂S and CPS12 Blend to eliminate the remaining odors. Omnisorb media was also incorporated to target dimethyl disulfide removal.

RESULTS

After the installation, Dannon reported that all odors were removed and customer complaints were eliminated. Other Dannon facilities are now taking advantage of PureAir's technology.

H₂S Levels In: 25 ppm

H₂S Levels out: .01 ppm

Methyl Mercaptan In: 6.7 ppm

Methyl Mercaptan Out: .021 ppm

Dimethyl Disulfide In: .16 ppm

Dimethyl Disulfide Out: 0 ppm

“Our (new PureAir) unit worked so well that it was like a spring breeze when I placed my face in the outlet of our unit. Absolutely no odors. –Kevin Bock”