

CHARTECH SOLUTIONS

AN EXPERIENCED LEADER IN INDUSTRIAL CLEAN AIR, ENERGY AND WATER TECHNOLOGY

FOOD & BEVERAGE AIR/WATER PROJECTS



MARS CHOCOLATE (USA) ODOUR & PARTICULATE CONTROL SYSTEM

PROBLEM: Mars was searching for a cost-effective solution to control the emission of particulate and odours from its cocoa bean roaster to address local EPA compliance concerns.

SOLUTION: CharTech conducted a pilot test with its portable System REITHER™ venturi scrubber, demonstrating the full-scale system's ability to achieve up to 99% removal rates.

RESULT: CharTech was selected to provide 2 (two) System REITHER™ venturi scrubbers, Cocoa bean roaster in Elizabethtown, PA; 35,000-cfm and an additional Peanut roaster in Hackettstown, NJ; 17,000-cfm. Both systems effectively removed air pollutants, exceeding local EPA compliance requirements.



ALGOMA ORCHARDS (CANADA) CLOSED LOOP WATER SYSTEM

PROBLEM: Algoma Orchards' growing production capacity required an increased supply of water, but a lack of infrastructure and high costs of water were preventing expansion plans.

SOLUTION: CharTech proposed the newly developed System HydroKleen™ membrane bioreactor (MBR) in conjunction with reverse osmosis (RO) and chlorine disinfection to produce potable quality water that could be reused for Algoma's consumable products.

RESULT: CharTech supplied a fully automated System HydroKleen™ MBR to process wastewater for reuse with a capacity of 10,000 gallons per day. It was the first closed loop system in North America that effectively recycled wastewater generated by a food production facility to be reused within its production processes, enabling Algoma to increase its production capacity, while reducing water costs by \$150,000 per year.

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