

AUTOMATING DUCT CLEANING REDUCES WATER USE BY 65% AND IMPROVES WORKER SAFETY



PROBLEM:

FIND A MORE EFFICIENT AND SAFER WAY TO CLEAN VENTILATION DUCTS

A food company producing precooked and microwavable bacon needed a better way to remove grease from oven ducts. Maintenance crews were tasked with dismantling and cleaning the ducts with handheld spray guns and brushes. The ductwork was slippery and hard to manage. In addition, the cleaning process was time-intensive and consumed a lot of water. Once the cleaning was complete, maintenance crews had to reinstall the ducts.

When we proposed using tank cleaners to clean the ducts, the bacon producer was a bit skeptical, but agreed to a trial after seeing a demonstration. TankJet® 9 tank cleaning nozzles were installed in one section of ductwork. The sanitation crew verified the cleaning efficacy and approved the nozzles for use.

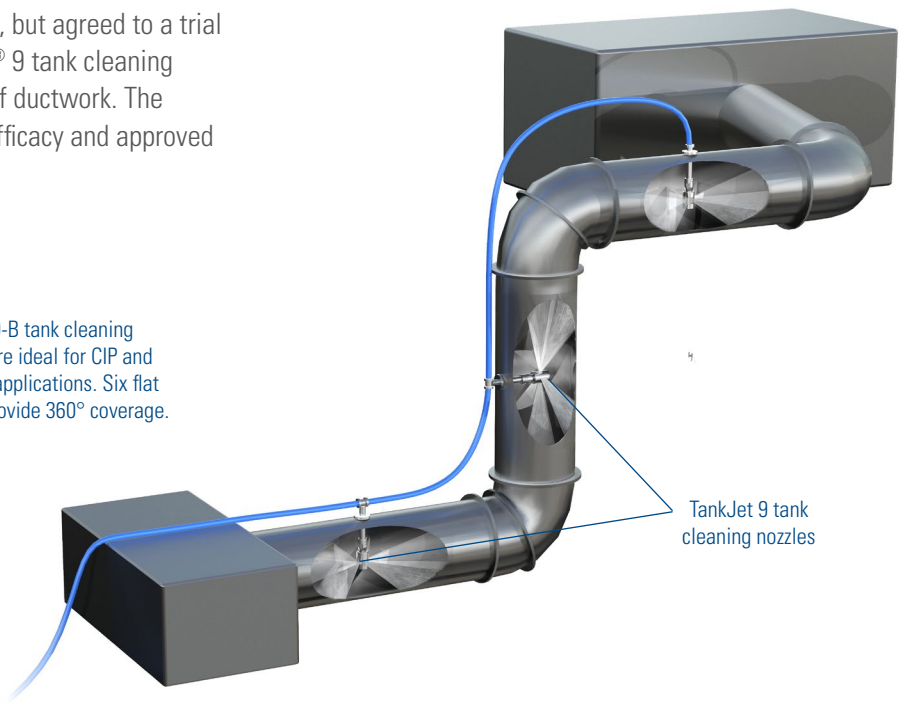
SOLUTION:

Designed for clean-in-place operations, TankJet 9 tank cleaning nozzles feature six rotating streams and quickly and efficiently remove the grease from the ducts. No manual labor is required except to remove a small portion of the duct prior to the cleaning cycle for water drainage.

Twenty-three TankJet 9 tank cleaning nozzles are now in use in ducts throughout the plant.



TankJet 9-B tank cleaning nozzles are ideal for CIP and sanitary applications. Six flat sprays provide 360° coverage.



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RESULTS:

Automation of the duct cleaning with TankJet® nozzles has dramatically reduced water use. The ducts are now cleaned using 65% less water in half the time as the manual method. In addition, workers are no longer

required to climb ladders to dismantle the ductwork and handle slippery, unwieldy panels. The food processor recouped its investment in new TankJet 9 nozzles in just a few months.



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