

AIR INTAKE CHALLENGES



BACKGROUND

Ideally, contaminants should be captured BEFORE they enter the HVAC system. Intake prefiltering is a simple solution and significantly reduces maintenance, man-hours and most importantly, the chance of costly equipment downtime. Typical equipment maintenance includes cleaning the delicate fins and coils with time consuming hand brushing and noxious chemicals that can damage the system components and the environment over time. This is especially problematic when the air intake fins and coils are in hard to reach or limited access locations.

CHALLENGES – GROCERY STORE

Glen Bergman, the owner of G&B Environmental, manages the air filtration needs for a major grocery store chain in Minneapolis. The chain utilizes more than 600 condensing units for their cooling needs at 20 locations. Especially critical are the Bohn and Russell horizontal and vertical rooftop condensers that allow the refrigerated walk-in coolers and product storage equipment to safely store and display millions of dollars of food products. The condensers, containing 3-8 fans per unit, are located on each store's rooftop, nestled among messy cottonwood trees. Each summer, the delicate air intake fins get showered in white, fluffy cottonwood seeds that

become embedded and block critical air flow. The units require thorough cleaning in order to perform within their originally designed operating parameters. G&B needed to simplify their cleaning routine and utilize their service contract man-hours efficiently.

CHALLENGES – DATA CENTER

Trusted by Fortune 100 companies and the U.S. Government for their high quality secure data processing and large scale survey services, a major data center with multiple locations in Minneapolis utilizes Liebert systems to keep their computer rooms cool. The systems are located on the facilities rooftop, and also surrounded by messy cottonwood trees. High velocity air intakes located beneath the Liebert units suck the contaminants up vertically - clogging critical air flow. With minimal space to work-between the system and the roof, cleaning for G&B - Environmental was extremely difficult, messy and labor intensive.

RESULTS

Permatron's Prevent® Equipment Protection Filters were customized for each application, ready in just days for easy installation. Each application has its own installation challenges. Prevent has a variety of design features which allow the

filters to be attached easily and securely.

Permatron is the leading designer of equipment protection prefilters for use on residential, commercial and industrial air intakes. Since 1957 customized solutions have been our specialty. Call now to discuss how you can cut costs with a Prevent Solution for your application.



Cottonwood becomes embedded in fins and is difficult to clean. Prevent prefilter can easily be brushed clean of cottonwood with a broom.

