

# Eliminating Filter Collapse Trouble Once and for All

Parker HVAC Filtration recommended that a major hospital in the Saint Paul, Minnesota area replace its standard commercial pre-filters with Airguard® DP® HD filters to resolve filter collapse issues. Learn how Parker delivered process improvements and costs savings to this customer by choosing the best filter for this challenging application.

“Parker HVAC Filtration delivered process improvements and cost savings.”

## Challenge

A major hospital in the Saint Paul, Minnesota area contacted Parker HVAC Filtration about a significant filter failure issue they were experiencing with several of their air handling units. The volume of air being moved was greater than the bank of air filters in place could accommodate, causing their standard commercial pre-filters to collapse and allow bypass to the final filters and reduce their life expectancy.

The customer was also struggling to keep a consistent schedule for changing their pre-filters, replacing them when they had already collapsed instead of when it was appropriate to keep the unit performing efficiently.

Pre-filters exist to capture larger particles and protect more efficient and costly final filters. When they collapse and allow bypass of larger particulates, final filters can become clogged faster than normal. This often results in HVAC units using more energy to maintain consistent airflow and temperature in critical areas of the facility, such as the operating room.

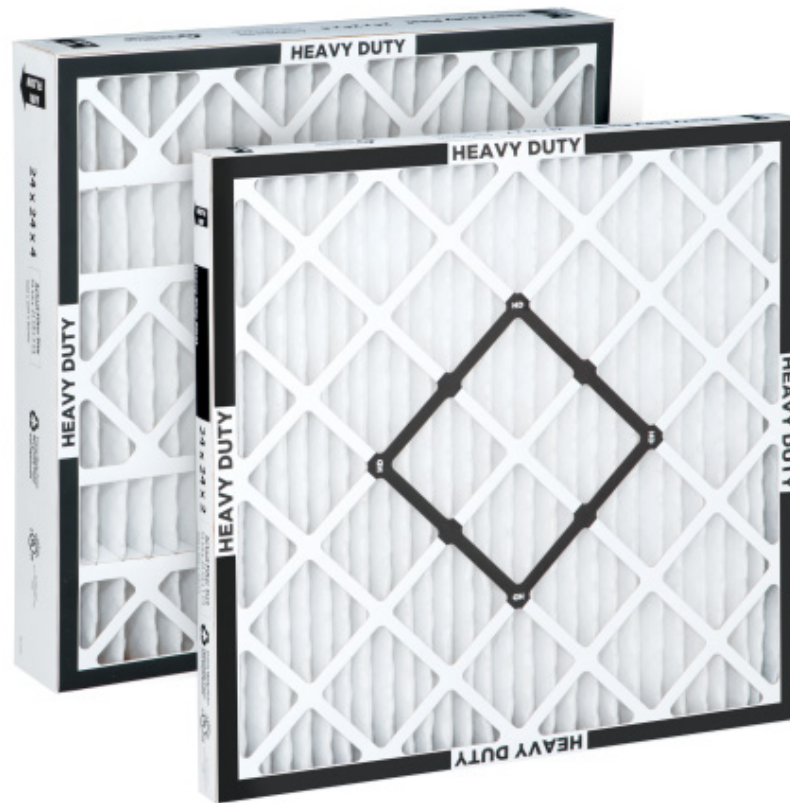


## Solution

After discussing the filtration concerns with facility management, Parker HVAC Filtration field experts surveyed one of the customer's air handling units and observed a clean bank of standard commercial pleated filters collapsed under the typical airflow in the unit.

Parker HVAC Filtration then identified the need for a quality engineered filter that could deliver consistent performance when exposed to the most demanding HVAC applications. The Parker team performed a trial using a bank of new Airguard DP HD filters, which feature heavy-duty pleats designed to withstand high-velocity applications and provide increased dirt holding capacity over typical pleated pre-filters. In addition to being more durable than standard commercial pleats, the DH HD filters offered improved efficiency, maintaining their MERV 9 rating throughout the life of the filter.





Heavy Duty Pleat

## Results

The bank of Airguard DP HD pre-filters held their form during the trial period and never collapsed. Additionally, the new filters lasted twice as long due to improved dirt holding capacity over the previously used filters. As a result, the hospital switched to the Airguard DP HD filters for their other air handling units and has experienced significant cost savings since doing so.

The hospital can now rest assured knowing they have a filtration product they can trust to perform under rigorous conditions and keep their employees and patients safe. The additional benefits of less labor involved, increased life of final filters, and hard cost savings associated with longer service life are also appreciated.

Fully understanding a customer's needs and recommending the right filter for each application is key to the total filtration management approach Parker HVAC Filtration follows when servicing its customers. This case study is just one of many examples of how our technically trained sales staff draws upon their application expertise and our extensive product offering to deliver value on a daily basis.

