

AAF: Trusted Partner for IAQ of Leading Internet Data Centre Player with its best TCO

CASE STUDY - DATA CENTRE

Customer Profile

- Location: Across India
- India's largest Integrated Telecom & Internet Data Centre Service Provider
- Leading player in colocation data centre business
- Has multiple Data Centres in operations across India

Situation

Particulate and corrosive gaseous contaminants have become a serious problem for hardware in data centres and server rooms. It increases the operating costs due to frequent failure of hardware and in some cases could lead to shut down too.

A leading Data Centre Service Provider which had one of its major facility near a refinery suspected to face the challenge of battling corrosion due to gaseous contaminants present in the atmosphere. The new facility had already installed gas-phase filtration products (Deep Bed Scrubbers) of a competitor. They were planning to expand their business in India and were looking for energy-efficient and well-networked brand to install chemical filters in its data centres as a precaution in its upcoming sites.

Since each facility had a different set of challenges, they required a customized engineering solutions for each of their new facilities. Mumbai had air pollution and humidity problem, Delhi and Hyderabad had a tremendous amount of air pollution problems, the other two locations were in an industrial area with high ambient air pollution. They required a customized engineering solution for their new facilities, since each facility had a different set of challenges. They approached AAF with these unique challenges as they needed to work pan-India with a reputed international brand which had a connected network and service backing.



AAF scheduled an air filtration audit to analyse the surrounding air quality and expected air pollution challenge in each location. Keeping these parameters in mind, AAF proposed the efficiency of SAAF Shield® Technology which enables quick reaction to outdoor events that may introduce corrosive gases into data centres. AAF installed, commissioned and performance tested DBS (Deep Bed Scrubbers) of SAAF technology in its first facility and the TCO outcome convinced the customer to deploy AAF solution at Jamnagar, Mumbai and Hyderabad.

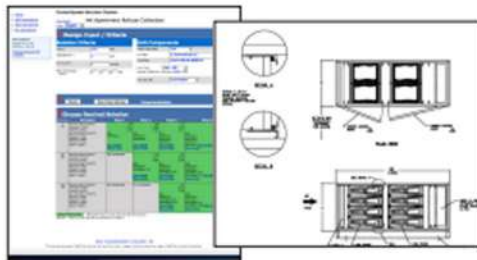
For its Delhi facility, AAF proposed RU (Recirculation Unit), a stand-alone complete air purification system. It recirculates and cleans the air in a controlled environment. This RU unit has placed in multiple numbers in multiple blocks of the data centre to protect from air pollution.



Fig. DBS (Deep Bed Scrubbers)

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TCO (Total Cost of Ownership) was the winning factor for AAF to Optimize filter system based on filter cost, energy consumption, and service cycle.



Select and compare media and equipment solutions using SAAF™ Tech Tools.

Results

AAF provided customized engineering solution - DBS for its first facility to fight corrosion. The customer was happy with the TCO and the service. Hence, the customer placed orders for all the new facilities. AAF offered customized DBS filters for 5 cities, and RU for Delhi. With the strong network and service across India, AAF won 6 cities project from leading data centre provider.



Fig. RU Unit