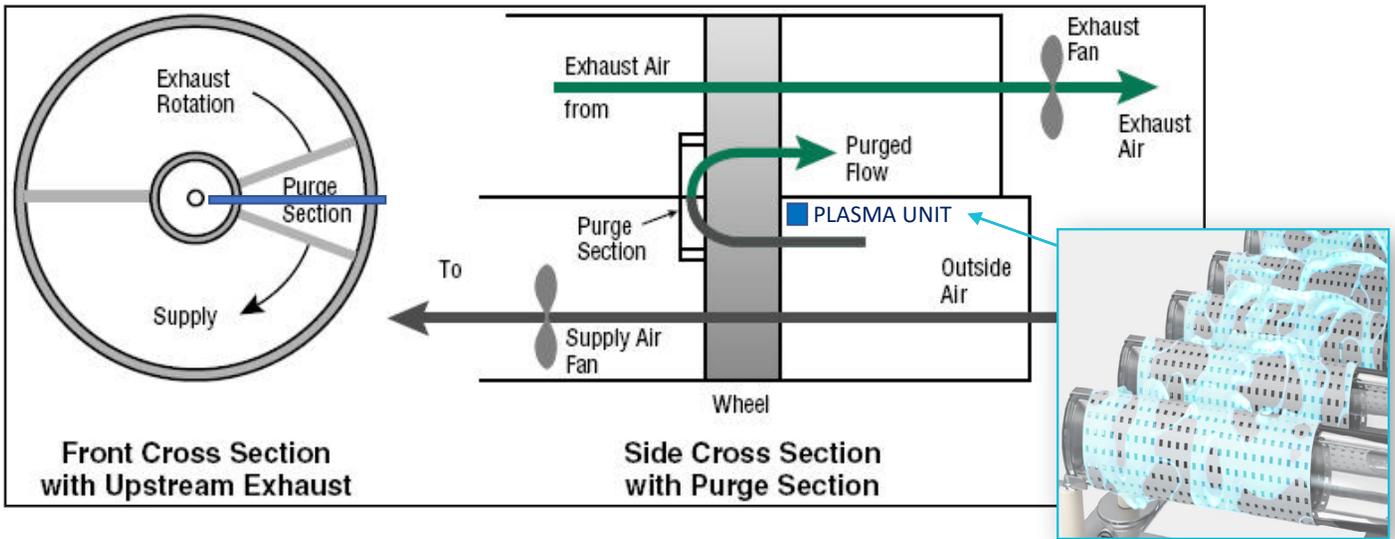


# Plasma Air cleaning system for Thermal Wheels

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# Ultraviolet Plasma Air cleaning system for Thermal Wheels



Thermal wheel heat exchangers are readily chosen for their efficiency and compact size.

In certain applications like hospitals, thermal wheels are not permitted due to the risk of cross-contamination. Purge sections are often added to prevent exhaust air from leaking through the brushes into the supply air. This has been shown to be effective at preventing the ingress of contaminated air into the outdoor air stream.

The issue that it does not address, is the possibility of the contaminants like mould bacteria and viruses that are inevitably deposited on the thermal wheel being re-introduced to the outside air stream.

Fitting a Plasma system to the AHU purge section provides a double pass of high energy plasma through the thermal wheel to destroy the pathogens that have been deposited on the wheel.

Influenza H1N1
Escherichia Coli
Staphylococcus Aureus
MRSA
Pseudomonas Aeruginosa
Cladosporium Cladosporioides
Dichobotrys Abundans
Penicillium
Aspergillus Niger
Candida Albicans
Bacillus Subtillis var Niger

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