

DustClear™ Five Stage Dust Control System

The Facts Behind The SW8000's Incredible Dust Control

Why You Need DustClear™

- Employee health, safety and comfort
- Clean, attractive appearance
- Parking garage customer satisfaction – no dust on cars
- Reduced product and labor costs – no dusting off parts prior to shipment
- Equipment life and maintenance – reduced dust and dirt results in less wear on moving parts
- **Significantly increased dust controlled sweeping productivity**

DustGuard™ – Attacks dust at the side brooms – the main source of airborne sweeper dust

- Fogging system bonds airborne dust particles so they immediately fall to the ground and are swept into the hopper
- Surface is left dry to touch and ready for immediate use
- Minimal moisture used in fogging leaves hopper and debris dry
- Eliminates the majority of dust created by the side brooms
- Not vacuum based so main broom dust control is not degraded
- **Over 70% greater dust controlled productivity than conventional sweepers which have dust control only on their main broom**

Conventional Sweeping



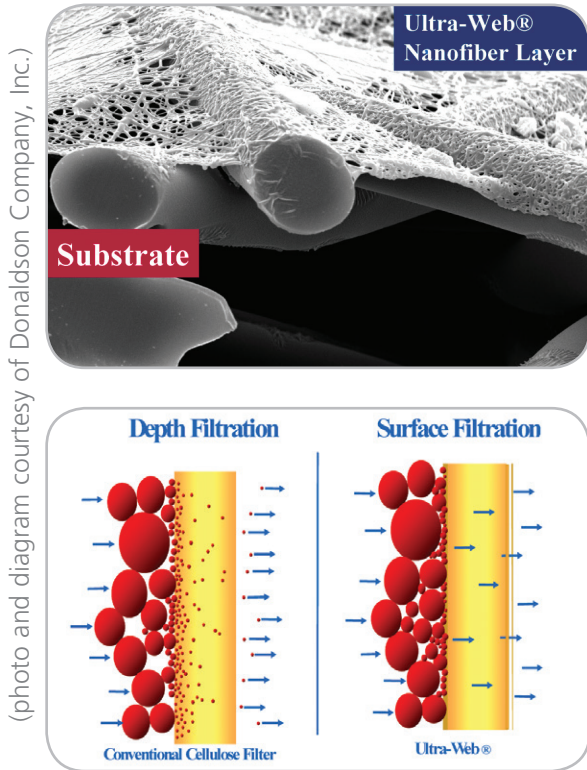
Sweeping with DustGuard™

Vacuumized Main Broom Chamber – Captures dust from main broom

- Dust kicked up by main broom is fully captured in a vacuumized chamber that is sealed to the ground by surround skirting
- Significant 350 CFM air flow generated by hydraulically driven fan assures excellent dust containment over uneven ground and other variables that typically hinder dust control

Airflow Labyrinth – Removes 90% of dust from the airstream

- Dust laden air flow slows in the main hopper chamber so that heavier particles settle with the other debris. Air accelerates and decelerates in an additional cycle prior to reaching the dust filter so more dust settles out.
- Airflow makes two abrupt directional changes so that 90% of the dust is removed from the airstream before it reaches the dust filter improving dust control and extending filter life.



Nanofiber Technology Dust Filter –

Any fine dust that did not settle in the hopper is filtered out of the airstream and DustClear™ air is returned to the atmosphere

- Ultra-Web® filter efficiently filters submicron size particles (human hair is about 100 microns). The filter is >98% efficient on particles 0.3 – 1.0 micron; this is approaching H.E.P.A. filtration levels.
- Unique multilayer system traps dust on the surface of the filter for better clean-back, longer filter life, and lower maintenance costs.
- 94 square feet of filter material allows for long, dust free sweeping with infrequent clean-back cycles required.
- Heavy seals with mechanical clamping assure excellent filter sealing.
- Panel filter can be replaced in under one minute.
- All dust is locked in the hopper utilizing only one seal which is attached to the panel filter.

Airflow Restoration System –

Full-filter vibration system restores airflow to a filter burdened with dust

- Aggressive, patented, Liberator™ filter shaking mechanism fully shakes all pleats of the filter by shaking the filter at multiple vibration frequencies, restoring airflow back to near original flow conditions.
- Panel filter sits horizontally above the hopper so all dust leaves the filter when shaken free and falls directly into the hopper.
- Angled panel beneath the filter protects the filter from damage from incoming swept debris.
- Filter shaker system automatically executes each time the main broom is raised – one less step for the operator to remember.

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