

THE ANDREAE ADVANTAGE



HIGH EFFICIENCY

HIGH HOLDING CAPACITY

WORLD WIDE DISTRIBUTION

NO MIGRATION

NO FACE LOADING

**WHEN QUALITY COUNTS
AND EFFICIENCY MATTERS**

Separation by inertia is the working principle of the Andreae Filter: upon entrance, particle laden airflow (overspray) suffers radical changes in direction. Particles (heavier than air) follow tangent trajectories to the airflow and settle into holding pockets out of the airstream, leaving the exhaust virtually free of overspray.

The Advantages of Inertia Separation

- ✔ **No migration:** the migration phenomenon is common when slow-drying coatings are used with mesh filters. The airflow pulls particles trapped in mesh back into the airstream. The Andreae Filter deposits particles in holding pockets out of the airstream leaving the exhaust virtually free of overspray.
- ✔ **High holding capacity:** at 5.3lbs/sf (2.4kg/0.09m²), the Andreae High Efficiency Filter (HE+) holding capacity is 3-5 times higher than common mesh filters.
- ✔ **Stability of static pressure:** static pressure increases slowly with the accumulation of overspray. Thus, the airflow around the parts to be coated stays uniform and the booth air quality remains clean.



The Advantages of the Accordion Structure

- ✔ **Optimum inertia separation:** the front wall prevents bounce back of overspray while the back wall captures the overspray in deep holding pockets outside the airflow resulting in continuous exhaust.
- ✔ **Constant air flow in the booth:** the airflow is evenly distributed over the whole extraction surface of the booth and the air flow stays constant during the loading phase. Polyester, mesh, and fiberglass face load causing the airflow to deviate toward the peripheral areas of the exhaust wall.
- ✔ **Large capture areas without reducing the air passage:** unlike other pockets, Andreae Filters retain overspray in pockets out of the airstream. This principle maintains low static pressure and results in a larger holding capacity.



The Andreae Advantage

- ✔ **Efficiency:** 98.1% (Andreae Standard) to 99.8% (Andreae HE+)
- ✔ **Performance:** lasts 3-5x longer than polyester, fiberglass, or mesh; captures any wet solids or liquid particles (high solid enamels, baked and air dried enamels, glues, oils, stains, lacquers, fiberglass, epoxies, asphalts, clear coats, tar, teflon, etc.)
- ✔ **Affordability:** more cost effective than polyester, fiberglass, or mesh; fewer filter changes means less disposal costs, less labor, and more production time due to fewer change outs; save on shipping and storage costs - 90sf (8.36m²) fit in 5sf (0.46m²) box