Troubleshooting Airflow

Shortened filter Life

Boil Back

Loss of Airflow

Check filter loading: is it time to change the filter?

YES

NO

Check proper fillter installation:
Recommended extension is 8 pleats per foot (marked in blue every 8 pleats).

YES

NO

Have you changed filter type?
If you changed from the standard range to the High range and you are experiencing loss pf airflow or reduced filter life, consider what coating you are using. Epoxies or water-based coatings are tacky and slow drying in nature.

YES

NO

Have you changed coating formulations?
Water-based coatings have a stickier nature and dry slower than solvent-based coatings. Water-based coatings may "skin over" if the airflow is not sufficient. Thus airflow is critical to dry waterborne coatings and may require additional airflow than solvent-based coatings. The tacky nature of water-based coatings will plug the polyester backing of the High range faster than the solvent-based coatings, resulting in a shorter filter life.

YES

Have you increased spray volume?
Increased spray volume will result in reaching the maximum holding capacity faster than at lower volumes. Depending on paint type, Andreae Filters can hold up to 6 lbs/sf.

Is there suffcient airflow when removing the filter?

NO

Check your fan:

Have you changed fans recently?
Make sure your fan is sized correctly.
Andreae Filters can withstand up to 1.03 in wc if the fan is capable of withstanding the static pressure. Discuss your options with your booth or fan manufacturer.

NO

YES

Enclosed booths:
Do you have good airflow when the door is open or is it hard to open the door?
Check the air makeup filters or check for obstructions in the intake duct.

Check your belts:
Are they loose or need replaced?
A loose or slipping belt cannot move as much air which could cause boil back or loss of airflow. Replacing the filter can temporarily resolve the problem but reduces fillter life.

YES

NO

Check for excessive paint build-up and obstructions inthe duct.
The fan is sized to move air for a specified diameter of duct. Paint build-up in the duct changes the airflow requirements.

Check for damage or obstructions inside the fan housing such as foreign objects or excessive paint build up.
Paint build-up can cause the fan to lose some capacity to move air. If not moving the same volume of air, the static pressure curve changes. Replacing the filter can temporarily resolve the loss of airflow but this reduces filter life.

For more information go to page "When to Change Finishing Booth Exhaust Filters".