



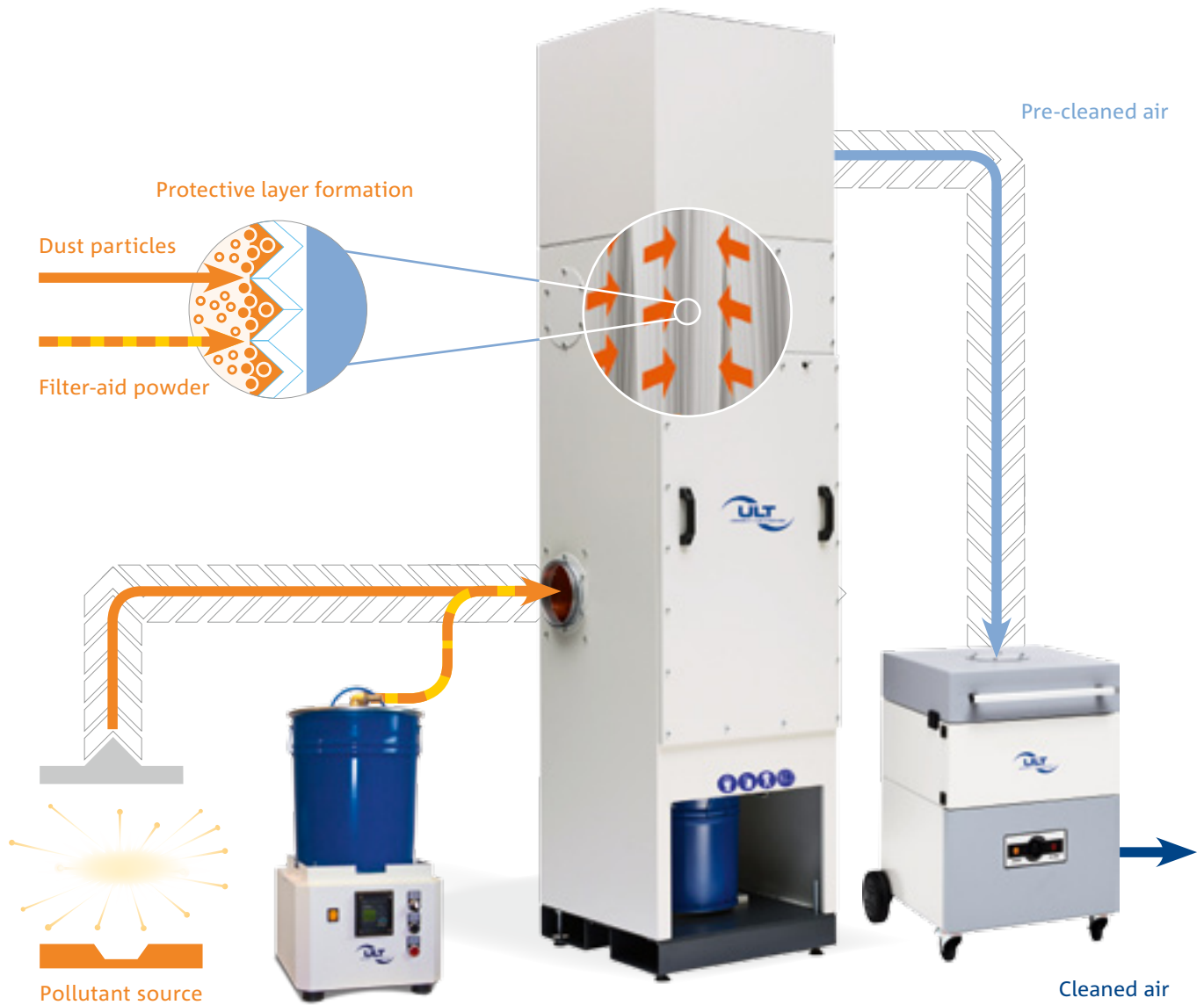
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Extraction of Sticky Dusts

Solution for the laser processing of synthetics and textiles

Extraction. Filtration. Persistence.





1

Extraction

Capturing of contaminated air including sticky particulates

2

Metered addition

Sequential addition of filter-aid powder

3

Pre-filtration

Cartridge filter unit from LAS series: dust particle filtration

4

Post-filtration

Storage filter unit from ACD series: odor and gas filtration

Laser processing of synthetics or textiles releases sticky dusts as well as gases and odors. The utilization of simple fume extraction units, however, may lead to fast and irreversible filter clogging

A specifically developed **combination solution**, consisting of three different components, comes to the rescue. A **cartridge filter system** is utilized for

laser dust separation. A preconnected **filter-aid metering unit** increases the degree of separation.

The filter-aid powder, added to the flue gas, produces a protective layer on the filter cartridge surfaces, binding particulates into an easily removable filter cake. Finally, a downstream **storage filter unit** removes gases and odors from the exhaust air.