



## Reference project/application



### Extraction solution during battery recycling



#### Situation/challenge

- During the recycling of automotive battery cells, volatile components (within the dismantling plants) and particles (in the drying oven) are released
- Air requirement 5,000 to 6,000 m<sup>3</sup>/h
- Compliance with exhaust air limits (total dust <20 mg/m<sup>3</sup>, total carbon <23 mg/m<sup>3</sup>);
- Attention: low odor threshold of the electrolyte



#### Solution

- Pollutant capturing is executed by the customer within the dismantling plants
- Adsorption of volatile organic substances using replaceable activated carbon tanks (2 x 5 m<sup>3</sup>)
- Volume flow generation by two ATEX fans connected in parallel
- Filtration of the solids at the oven using ASD 1200 MD.18 2Pa extraction system
- Joint exhaust air; exhaust air outlet 5 m above the roof (i.e. at a height of approx. 17 m)



#### User benefits

- Effective filtration of volatile organic substances at high volume flow
- Effective particle filtration
- Optimum utilization of the activated carbon by swapping the order of the two activated carbon tanks
- Easy exchange of activated carbon, as tanks are also transport containers

