

WHEN DUST AND FUMES ARE ISSUES BY TRANSPORT OF REGRIND MATERIAL, **PNEUMATIC SOLUTIONS WITH FILTER** IMPROVES HEALTH AND SAFETY

/ THE CHALLENGE /

- The company located in the Netherlands is a global company that produces custom and standard blow-molded plastic bottles and containers
- The factory is located next to its biggest customer in the same building only being separated by a wall. The pickup points for rejected material are located on the customer's side of the wall in the same building.
- The factory experienced dust, angel hair and Peroxide fumes from the finished production site from their customer as well as dust and angel hair from their own production site.
- Peroxide is used for cleaning in the customer's production area, and the Peroxide fumes were going through the suction points of the conveying system into the cyclones
- Since the outlet of the cyclones were not connected to the outside or a filter, the air, dust and fumes were released inside the waste handling room
- The solution must handle the dust and fumes issue

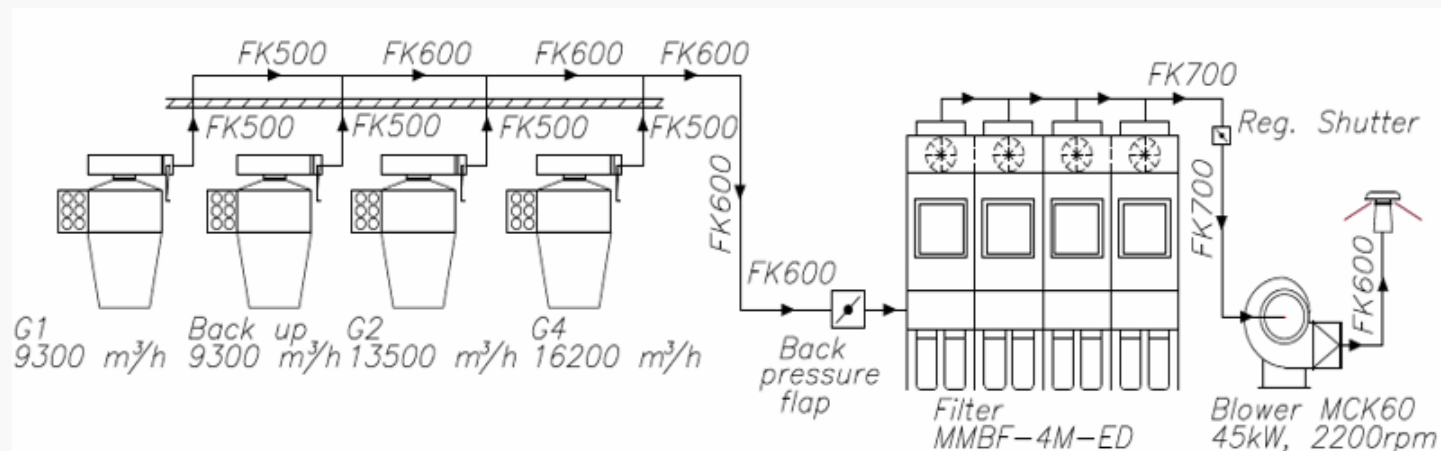
/ THE FACTS /

- Material: Dust. HDPE, PP and PET
- Demands from customer: 24,000m³/hr (divided over 4 cyclones)
- Suction points: From 4 cyclones to filter.
- Bulk density: Dust and fumes
- Conveying distance: H: max 90 mtr. V: max 7 mtr



/ THE SOLUTION /

- The Kongskilde solution includes piping, a main fan (MultiAir 2200S), a MultiSeparator (RVS 75), a static separator (KU 25000) connected to the investor's filter, and the control panel controlling the entire system in an intuitive and automatic way
- The MultiCutters increase transport efficiency, while at the same time preventing tangling and clogging in the pipeline
- The MultiSeparator RVS 75 by Kongskilde offers unique technical features that enable the creation of exceptionally efficient, flexible transport systems.



/ THE ADVANTAGES AND BENEFITS /

- The flexible pneumatic solution has a considerable positive effect on the health and safety working environment with the dust and fume issues under control. Cleaner space area without dust and fumes brings better working conditions and less risk of work-related diseases.
- Less need for maintenance of the pneumatic conveyor solution and even less need for cleaning the factory without the dust issues gives a net cost saving.

