

■ Description

Massive amounts of dust and contaminants are being produced during a variety of processes such as mixing, packaging, blending, grinding, cutting, etc. This dust must be disposed of. The conventional method to clean the dust is with the use of brooms.

Sometimes, the generated dust is widespread and exists in numerous locations, sometimes spanning over many levels. When multiple users want to remove the dust and contaminants at the same time, brooms and mobile vacuum cleaners are no longer an option.

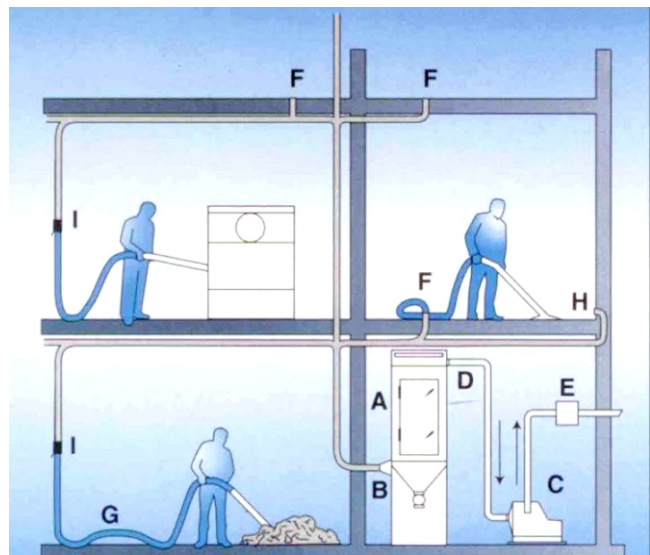


■ The Solution

The solution is a **Central Vacuum System**.

Such a system is uniquely (zone) activated by having an inductive proximity switch for the vacuum pump, which is connected to the suction ports of the tubes.

This system allows many people to work simultaneously at different locations. A typical system is designed to maintain 2 - 3 users simultaneous, have 1" suction hoses, and rated for approximately 450 to 600 CFM.



This system discharges the dust with a vacuum air lock.

Larger systems can also be designed.

For dust collection, a variety of tools such as brooms, nozzles, and hoses can be connected.

Herding® Central Vacuum Cleaner



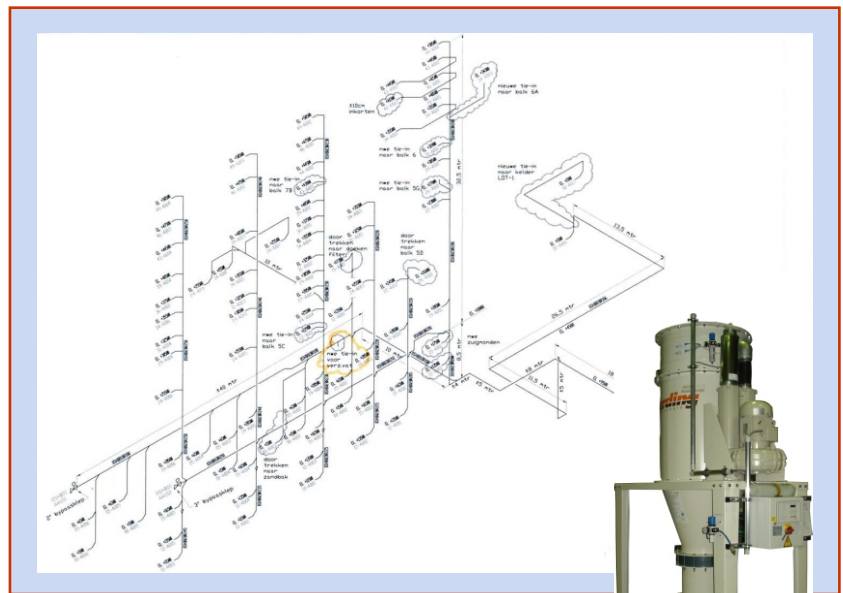
The risk of erosion on dust transfer piping is managed by utilizing wear-resistant pipes (up to 5mm thick) along with reinforced elbows.

To minimize the noise level, vacuum blowers can be placed in acoustic hoods.

Pictured left is an example of Herding filter unit with Sinter-plate filter elements in a facility that produces starch.



Central Vacuum Cleaner with connection to filter units and vacuum blowers



Branched Vacuum Cleaner System

Central Vacuum Cleaner (filter unit) 560 m³/h - 225 mbar



Benefits of the Herding® Sinter-plate Filters

- ▶ Long, useful life of filter elements
- ▶ Maximum separation efficiency
- ▶ No wear and tear of filter elements, even with abrasive materials
- ▶ Energy saving operation (vacuum blowers are only activated and adjusted as required)
- ▶ Collection, even at high product loads is possible
- ▶ High collection efficiency combined with excellent cleaning performance
- ▶ Automatic control system makes operation easy
- ▶ Continuous dust discharge and thus constant, pure productivity



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