

INDUSTRY: Textiles

CHALLENGE: The dust type in this laundry application is mostly cotton fibres and conventional baghouse units have a problem with bridging between the bags

SOLUTION: PowerCore[®] Dust Collector with PowerCore[®] Filter Packs



PowerCore[®] CPC-12 R Dust Collectors with a special long Hopper



Collected Fibres and Cotton Dust

Laundry Application for the Hospital Market

Cotton fibres are not easy to handle for dust collection systems. Our innovative PowerCore[®] technology now successfully proves its high performance within a laundry application for the hospital market (cleaning of clothes, bed sheets etc.). This market offers promising new application possibilities for our units.

A privileged Partner for integrated Services

Servizi Italia S.p.A. is one of the main Italian operators in the sector of integrated services for the health sector. The company is a strategic and privileged partner for integrated services of hire, washing and sterilization of textile items and surgical instruments for public and private welfare organisations and hospitals.

Common baghouse units have a problem with bridging between the bags and therefore plugging when handling this type of dust. With PowerCore[®] filter packs there is no chance of bridging as PowerCore is engineered with computer-modeled fluid flow analysis to manage the incoming dirty air and the velocities directed into the filter pack, avoiding interstitial problems. As the PowerCore filter pack is only 178 mm deep, there is virtually no opportunity for a dust bridge to develop.

“ With this application we were able to enter a new market for PowerCore[®]. Conventional baghouse systems in general have a problem with bridging when used on cotton dust and fibres. Our PowerCore technology shows its advantages also on this dust type. ”

Claudio Rossi,
Territory Manager IAF, Italy

PowerCore® Technology conquers a new Application Area

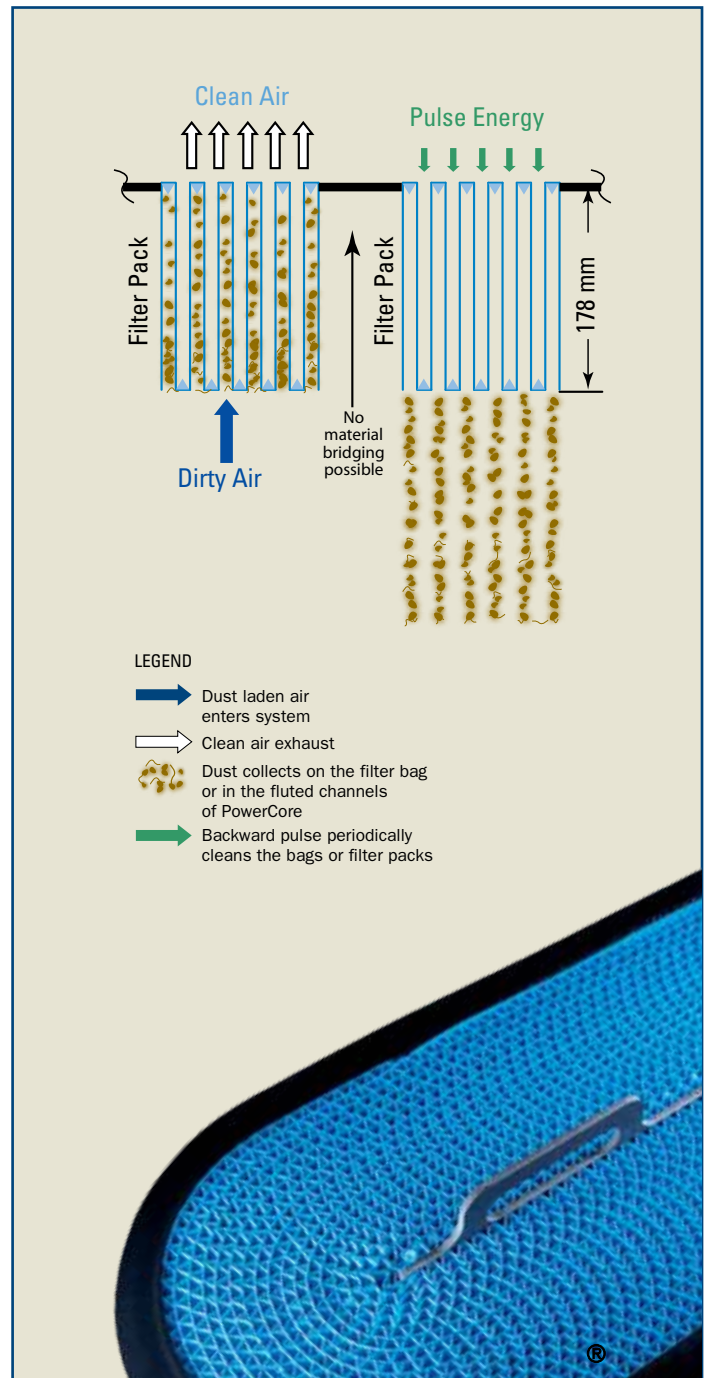
Customer Advantages with PowerCore®

Donaldson provided PowerCore® CPC-12 R units equipped with a special long hopper. The units and piping are painted inside and rotary valves with rubber profiles are installed.

- **Downsizing:** The unit is about 25 % smaller in height than a conventional baghouse unit.
- **Cost and Time Savings:** Significant reduction of maintenance expenses due to the required cleaning inside the plant. Compared to all other plants only 40 % of the total annual base are necessary. In addition the maintenance requirement for the equipment has been decreased.
- **Quality Improvement:** The quality of the products is improved, as after cleaning no dust is left inside the packages.
- **Health and Safety Improvement:** The pollution of the ambient air has been reduced to enhance the working environment for the employees

For more information on dust collectors, visit www.emea.donaldson.com/powercore

Breakthrough Technology prevents Bridging



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