

The IDF Venturi design is able to increase the air inflow

The nozzle injected air fillets during cleaning operation benefit from the special flanged venturi additional air contribution with a turbo effect.



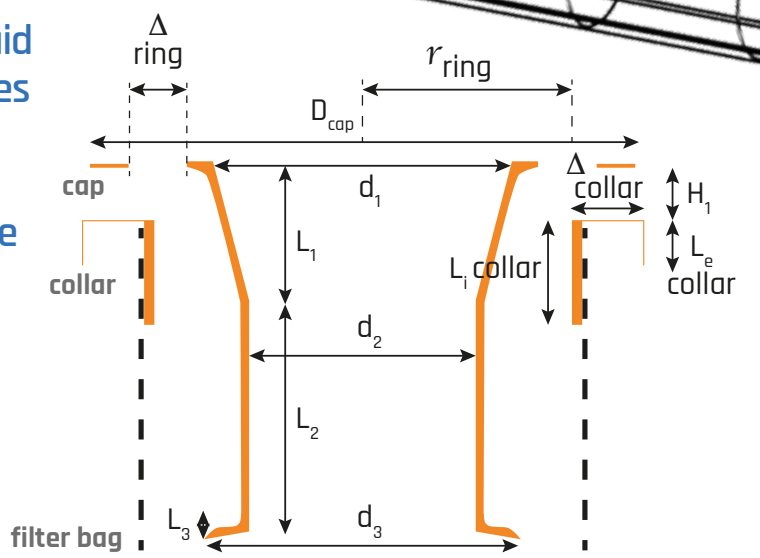
Turbo Venturi effect

A **double venturi** IDF placed in the middle of the longer filter cages provides to renew the cleaning power when the Peak Pressure sharply start to decrease affecting the good operations of the filter bag. The effect is a more homogeneous and distributed dust cake elimination all over the filter bag.

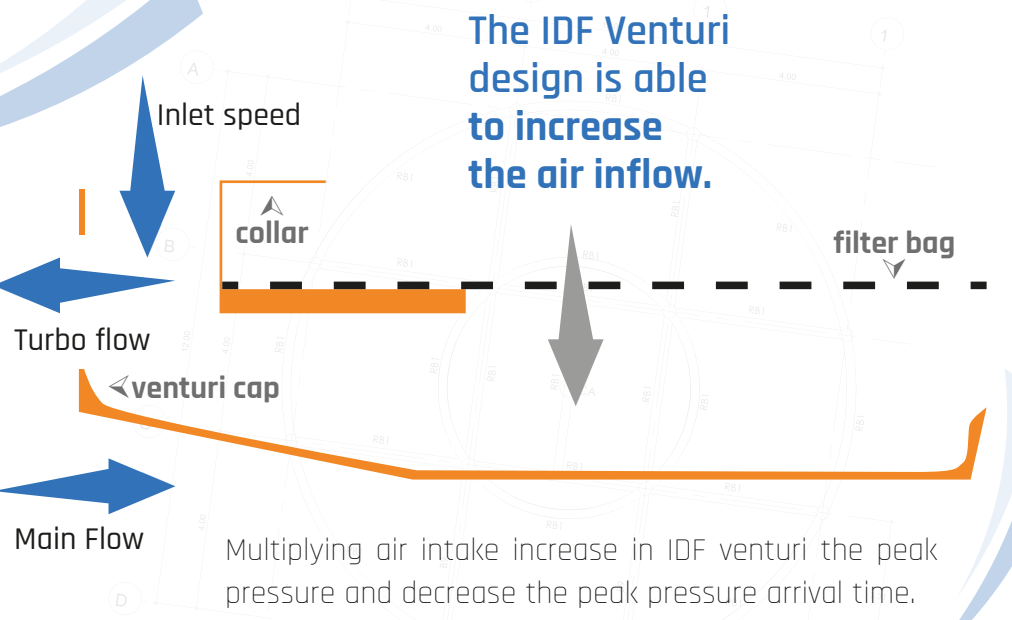
- More air intake**
 - More cleaning peak pressure**
 - Less Peak pressure arrival time**
- Reduced cleaning frequency and increased filter bag filtration efficiency

Eco Turbo Cage uses CFD (Computational Fluid Dynamic) techniques to find the best energetic balance within a full scheme of Eco Design

The IDF venturi shape and size is customized according to the cage length and dimensions.

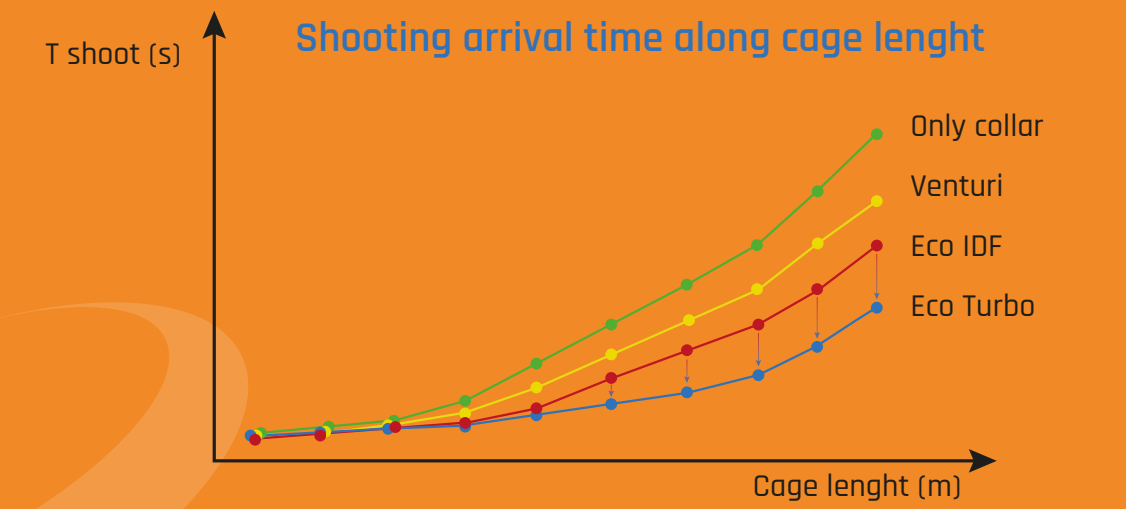
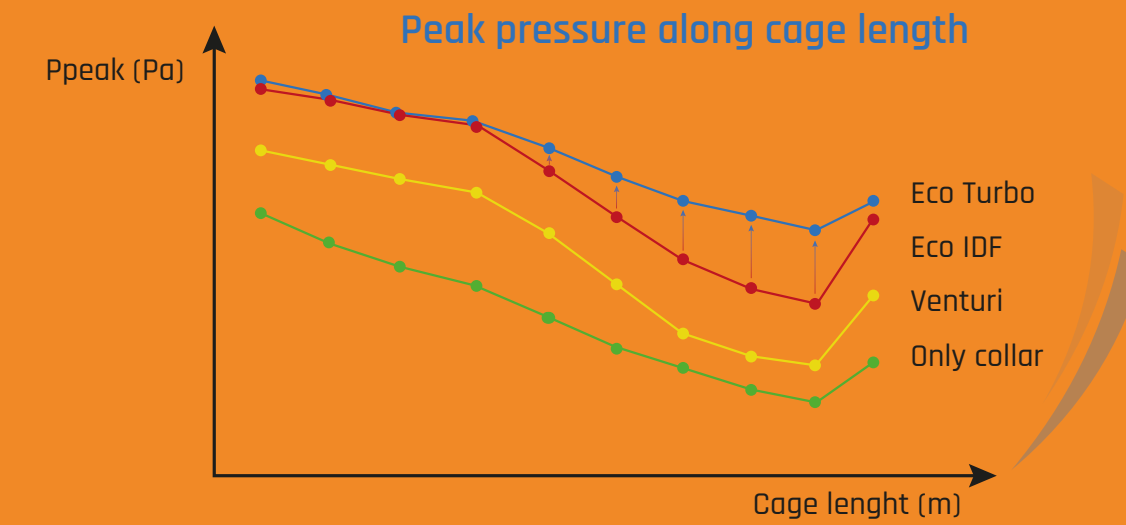


Closed bottom increases Peak Pressure in the last meters of the cages

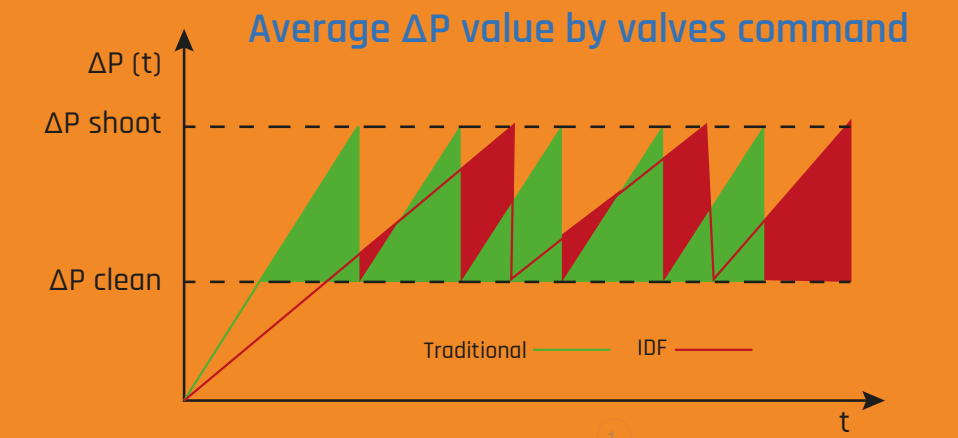


IDF Eco Turbo Cage compared with traditional solutions

The increase efficiency of Eco Turbo Cage in cleaning operation is due to a better shooting of the injected compress air which is directly proportional to the Peak Pressure and inversional proportional to the Peak Pressure Arrival time. The overall effect is that the Dust Cake will be more homogeneously cleaned (especially in the second third of the filter bag cage) delaying the frequency of the pulses in the time

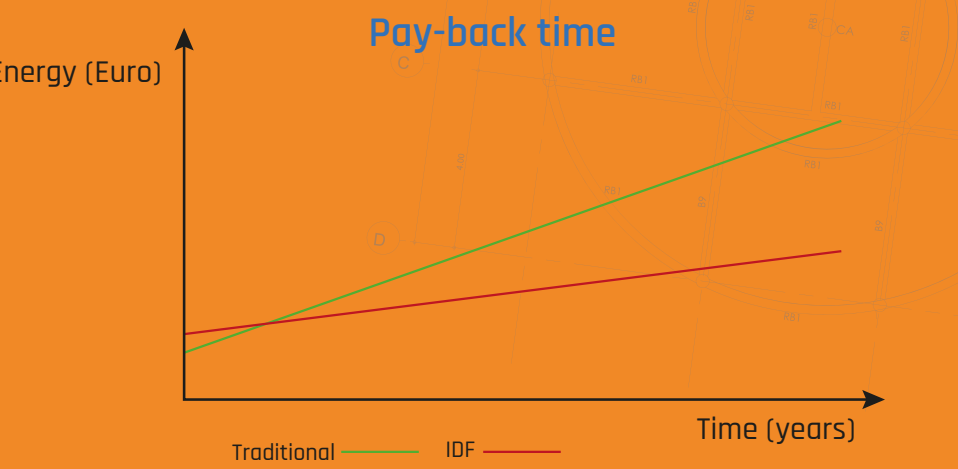


Energy savings in working and cleaning conditions



Lowering energy consumption not only in a - cleaning (compressor) but also b - working (fan)

Energy saving cage comes with the shorter pay back time of your investment





Clean Air Europe srl
via Roma 84, 23892 Bulciago (LO), Italy
+39 031 4153551 | info@cleanairworld.it | cleanairworld.it

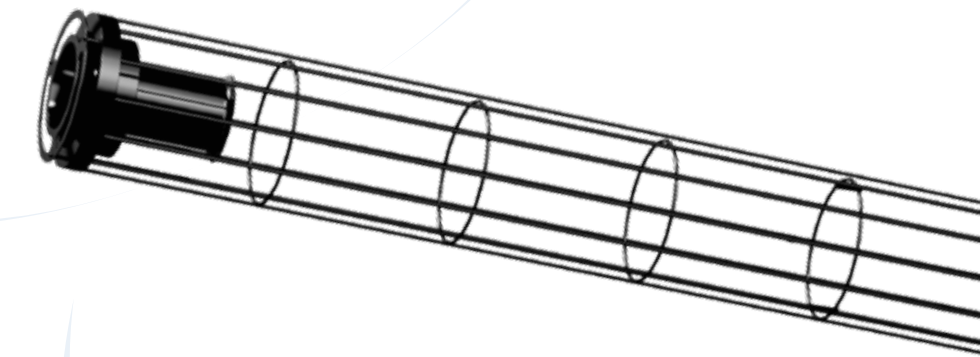
... REV. JEN 23-001 ...



Incremental Differential Flow (IDF)
Venturi Solutions



The first patented
energy-saving
cage in the market



Eco designed to save energy
in dust collectors.
Increased filter bag cleaning
and working efficiency