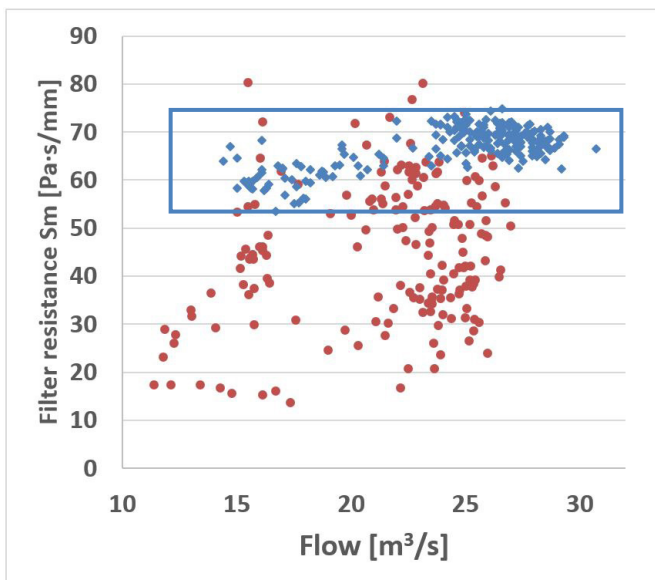




## Xylem Emmaboda Reference installation CPFE™

Xylem Manufacturing in Emmaboda installed a CPFE to reduce energy consumption, increase the filter capacity and reduce maintenance costs.



**Graph 1.** Filter resistance as a function of flow. Red dots show time controlled filter. Blue dots show filter resistance controlled filter.

More than 30% of the duty points with filter resistance control has a higher flow than with original control. This means the filter capacity is higher and the filter does not choke.

### Original filter data

Number of valves	45 pcs
Filter capacity	104 000 m <sup>3</sup> /h
Filter make	Canrena
Control	Time
Pulse time	100 ms
Press. air consumption	16 l/m <sup>2</sup> /pulse
Av. pressure drop	1,5 kPa

When filter resistance controlled, all measurement points are gathered within a well defined window (blue) in contrast to the time controlled filter where it is scattered. This means a suitable dust cake is built up on the filter media and it cleans at the right time, not too often or seldom, too early or late.

### Increased filter media life time

Too early cleaning (red dots) allow the filter media to be penetrated with fine particles and the filter media life time is heavily reduced. With CPFE, it builds up a perfect dust cake and prevents penetration of fine particles, leading to longer life time and lower average pressure drop over the filter.

### Shorter pressure pulses

CPFE reduces the pneumatic pressure pulse time with a factor 2 without exchanging the valves.

### Safe installation without interruption

CPFE comes pre-configured from ITK Envifront. It can be fully installed in parallel with the original control equipment and started without interrupting the production at the facility. When CPFE is ready, we simply switch over from the old control system valve by valve.

### Filter data with CPFE control

Control	Filter resistance
Pulse time	20 ms
Press. air consumption	9 l/m <sup>2</sup> /pulse
Av. pressure drop	1,0 kPa
Pay off time	0,62 years

### Reference contact information

Contact information is given upon request.

# World class air control<sup>TM</sup>

The cutting edge technology for air pollution control, filtration, condensation and process control of ITK Envifront is the key to lower emissions, less maintenance, energy savings and longer product lifetime.

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