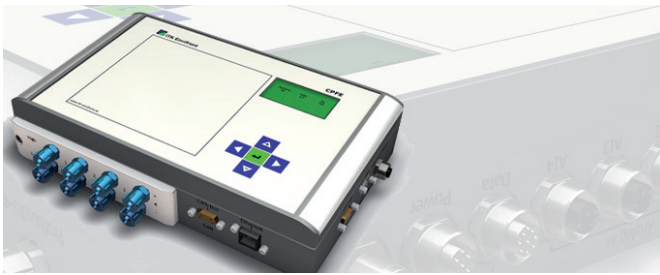




Halmstads Varmförzinkning Reference installation CPFE™

CPFE with resistance control was installed on a Donaldson filter at Halmstads Varmförzinkning. The filter was originally running on a time based cleaning cycle with 2 minutes cycle time. ITK Envifront delivered a new filter control that has increased the cleaning cycle time to more than 45 minutes with maintained filter function.



Reduced pressurized air consumption

With CPFE, the pressurized air consumption reduces with >98% over the filter media life time!

Massive energy savings

The increase in cycle time, reduced pressurized air consumption and lower pressure drop reduces the total energy consumption with ~70%.

Reduced maintenance and better uptime

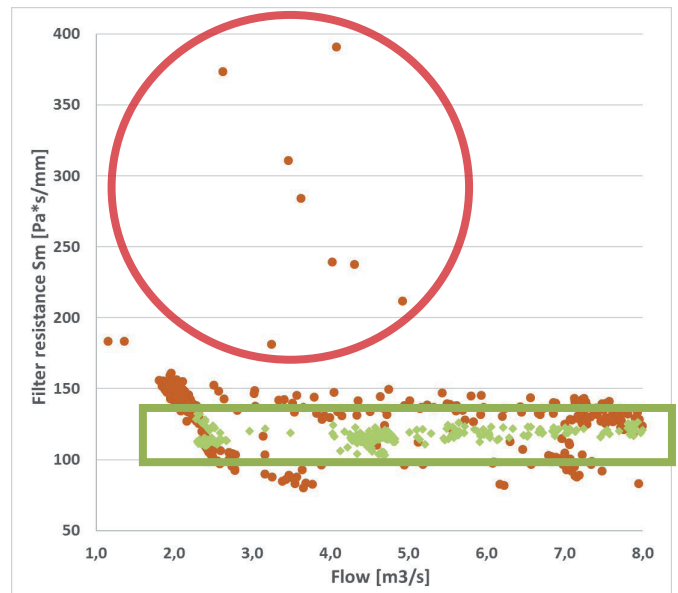
CPFE control, including broken bags detection, mechanical and electrical valve failure detection, reduces maintenance and increases uptime.

Safe installation without interruption

CPFE comes pre-configured from ITK Envifront. It can normally 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.

Reference contact information

Contact information is given upon request.



Graph 1. Filter resistance as a function of flow. Red dots shows differential pressure controlled filter. Green dots shows filter resistance controlled filter.

With differential pressure control, the filter chokes and cannot deliver the required flow (red circle). With filter resistance control using CPFE, the filter delivers the required flow in all cases (green box). It further reduces the energy consumption as the average lower filter resistance means lower fan power consumption.

Number of valves	60 pcs
Filter capacity	40 000 m ³ /h
Filter make	Donaldson
Original control	Time based
Original cleaning cycle	2 minutes
New control	Filter resistance
New cleaning cycle	>45 minutes
Pay off time	0,59 years

World class air controlTM

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.



ITK Envifront AB

Blockvägen 8
352 45 Växjö
SVERIGE

t 0470 72 21 00
w www.itk-envifront.se
e info@itk-envifront.se



ITK Envifront