



## Energy-saving Systems

We lower your energy costs!

**HÖCKER®**  
**POLYTECHNIK**

*Always one idea ahead*



## Your system saves energy

Programmable controllers by Höcker Polytechnik reduce the electricity consumption of your extraction systems by up to 60 %. Cost management is among the most important tasks today. Modern controllers with electronic speed control reduce energy costs and generate cash savings.

# Benefit from efficient technology and reduce your electricity usage. You could save more than 60%.

## What needs to be done?

Processing machines in many cases are only responsible for a portion of annual electricity consumption. Ventilation and heating equipment are the biggest energy consumers, especially the extraction system. Controllers by Höcker Polytechnik can reduce the energy consumption of extraction fans by up to 60 %.

By using frequency converters developed especially for ventilation technology, the electricity consumption of the extraction fans is precisely adapted to the required air flow rate. Fully automated energy saving gate valves separate processing machines that are not running from the airflows or assign them air volumes according to demand.

This groundbreaking technology is used regularly when planning new extraction systems. But existing systems can be retrofitted as well. This quasi makes them energy saving systems, too. The same applies to systems that did not come from Höcker Polytechnik.

## How does it work?

As soon as specific processing machines are not in use, the speed of the extraction fan is reduced so that extraction for the remaining machines continues to be assured. A minimum speed is assigned to each machine and the lower limit to ensure pneumatic conveying is defined.

But a frequency converter also saves energy when operating under full load. Reducing the speed by just 1 Hz lowers electricity consumption and the noise level. The low-noise, gentle start-up of the fan also avoids current peaks and reduces mechanical stress. This is easy on your wallet, the motor bearings and the hearing of the employees.

The Höcker Polytechnik field representatives record actual data on site and prepare the energy saving concept. Software developed especially for the purpose calculates the potential savings. And the most important aspect: all of this is priced so favourably that the investment amortises quickly. Then you save cash every day!

## What about heating costs?

Modern heat recovery methods allow you to significantly reduce your heating costs. Here too, Höcker Polytechnik can support you with information and cost-effectiveness calculations.



# Your knowledge reduces the costs

## Your system supplies the information

The intelligent analysis modules from Höcker Polytechnik provide you with access to all consumption information for your system. With your knowledge of recorded and current energy consumption, you can identify potential savings early on and have access to all information for the optimum parameterisation of your system.

Finally your equipment supplies the data for efficient consumption analysis and visionary planning. Höcker Polytechnik analysis modules measure and record energy consumption or also voltage peaks and the grid quality around the clock.



## Four analysis packages for more transparency

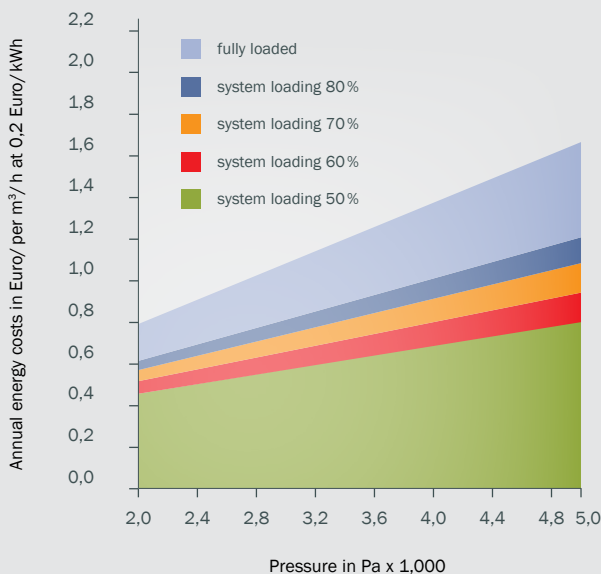
	MEM	APP	WEB	SPS+
LCD	●	●	●	●
Measurement display	●	●	●	●
Data storage - Lokal	●	—	●	●
Data storage - Cloud *	—	●	—	○
GridVis Basic **	●	●	●	●
HMI-Visualisation	—	—	—	●
APP for measurement display	—	—	—	●
Webserver / E-Mail	—	—	●/○	●/○
Mounting in front of cabinet	●	●	●	—
Mounting on top hat rail	●	●	●	●

- standard
- optional
- not available

\* Energy-Portal-subscription required  
 \*\* free download available

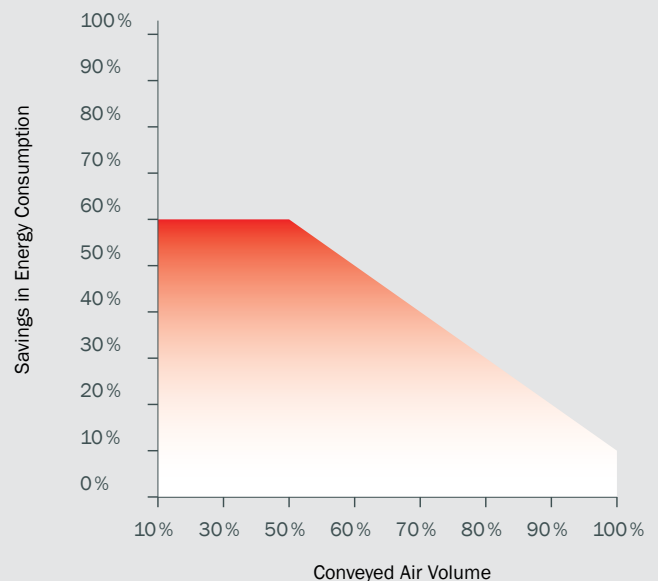
## Saving energy pays off for you

Energy costs per m<sup>3</sup>/hour conveyed air volume per year as a function of the total pressure and system loading



This diagram also illustrates the potential savings for different load factors, and the increase in savings with increasing pressure.  
 Summary: Cost savings for a pneumatic conveying system increase with an increase in air volume and pressure, and with a widening range between full load and minimum load.

Savings in energy consumption as a function of the conveyed air volume



The diagram on the right shows the savings in Euros and Cents. The energy cost per cubic meter of conveyed air increases with an increase in required pressure.



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