

# EC Technology

*Efficient, environmentally friendly,  
economical*

EU Regulations exist since 2013 for fans / fan units and a further stage came into force in 2015. In this guideline the energy efficiency of fans / fan units is covered and binding efficiency requirements are defined.

## All of the fans used in ISI filter devices exceed ErP regulations.

Due to the increased demands for the economic efficiency of filter devices we are already using EC motor driven fans in many of our ISI filter devices. These fans undercut significantly the ErP guidelines.

EC fans are driven by highly modern electronically controlled motors, which use significantly less energy and bring with them new technical features.

By using EC fans added value is created for you as the user due to significantly lower follow on costs and increased technological functionality.

## User advantages

- ▶ Energy saving up to 60% in comparison to standard AC motors
- ▶ Energy consumption values which significantly under cut legal requirements
- ▶ Continuous air flow rate setting via speed regulator available (resulting in further possible savings)
- ▶ Various control options
- ▶ Low noise level in comparison to devices with AC motors
- ▶ Integrated soft start
- ▶ Even less vibration during operation
- ▶ Motor protection switch no longer necessary
- ▶ Fit for the future

## ISI EC Technology

Exceeds the EU regulation Nr. 327/2011  
ErP 2015 - Better than the Norm!

For more information visit: [www.isi-luftfilter.de](http://www.isi-luftfilter.de)



We are an ebmpapst technology partner



We would be pleased to make an offer for your specific application.

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# COBARON EC-Technologie

*Your direct potential for saving*

## COBARON EC Technology

Our mechanical filter series **COBARON** with its different versions covers a wide range of problem areas and has been one of the most efficient mechanical filter systems on the market for several years. **COBARON** can also be implemented in the most difficult problem situations, where conventional extraction / air filter systems fail. Thus **COBARON** has been a well established player for years in the metal cutting industry.

The new **EC technology** brings the efficiency of this filter technology to a new level! Apart from economically optimised service intervals of the filter medium, energy savings of up to 56% are possible.



## Savings Comparison

*COBARON 13 EC & mechanical filter device with standard AC motor driven fans*

		filter device with Standard AC Motor driven fan
Power consumption	380-480 V, 50/60 Hz (universally applicable)	400 V, 50 Hz
Power output	max 0,82 kW / max. 1,35 A 0,53 kW,	0,75 kW / 1,73 A
Extracted air volume comparable to free blowing	2000 m <sup>3</sup> /h (adjustable)	2000 m <sup>3</sup> /h
Suction power at Inlet spigot D=200	1020 m <sup>3</sup> /h	1100 m <sup>3</sup> /h
Electricity consumption	0,53 kWh	1,2 kWh

**Energy savings with COBARON 13 EC = 56% | Difference in Electricity Consumption - 0,67kWh**

Speed regulator leads to even more energy savings. EC motors only use as much electricity as is actually required. The suction power can be adapted exactly to the requirements / applications in question. Several hundred Euros savings in electricity costs per filter device per year (in multi shift operation) arise as can be seen in the example above.