

**Nederman**

# Green your business while saving money

Nederman Energy Savings Calculator



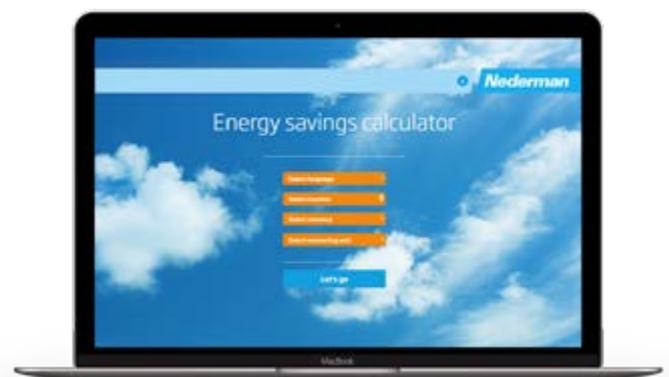
# Optimal performance makes a difference



Having an air filtration system perfectly designed for your unique operations and facilities can have a huge impact not only on air quality, but also production efficiency and energy consumption. The right filtration solution needs to be assessed for each specific application.

Nederman's Energy Savings Calculator is designed to analyze all the vital parameters of your production and suggest the most efficient system to deliver the necessary indoor air quality. Whether you are about to modify an existing system or start up new production, we can determine the most appropriate solution.

The potential energy savings vary from case to case. See a couple of examples below. Let us help you choose the right air filtration solution. It's amazing how much money there is in the air.



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## Facts speak for themselves

### Wood working

At a global manufacturer of wood furniture, with one of their facilities located in the United States, Nederman has installed 6 large dust collector lines on over 45 machines including saws, grinders, sanders, boring and drilling machines, and edge banders. Even with overall utilization rates well over 80%, the gold energy savings package was selected and installed with the dust collectors.

The total amount of fan energy saved per year is estimated to be 2,300,000 kWh, with a carbon reduction of over 3,100,000 lbs (1,400,000 kg).

### Welding

When Nederman installed 3 cartridge dust collectors at a welding school, they were delivered together with our silver package including Nederman Telescopic fume arms and MDA motorized dampers.

The intervals between welds were quite long and the school wanted the students to concentrate on the welding technique, without having to worry about fume extraction. That is why automatic dampers that opened and closed when each welder needed extraction air were installed. Using direct-drive, high-efficiency Nederman fans, annual fan electrical savings of over 40% have been realized by our customer.

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### User friendly interface

1			2			3			Result					
Energy savings package			Damper			VFD			Nederman					
			None			Electricity (Fan)			Heating (Fuel from selected)			Total (Electricity & Heating)		
None			None			None			Annual Cost			Total Cost		
						EUR 34 000			EUR 73 300			EUR 107 300		
						Annual Footprint CO <sub>2</sub> 58 300 kg			Annual Footprint CO <sub>2</sub> 375 100 kg			Total Footprint CO <sub>2</sub> 433 400 kg		
<input checked="" type="checkbox"/>	Bronze	Manual (Operator used)	None			Savings 37%			Savings 1%			Savings 12%		
						EUR 12 500			EUR 800			EUR 13 300		
						Footprint Reduction CO <sub>2</sub> 24 000 kg			Footprint Reduction CO <sub>2</sub> 4 000 kg			Footprint Reduction CO <sub>2</sub> 20 000 kg		
<input checked="" type="checkbox"/>	Silver	Electric or Pneumatic	None			Savings 54%			Savings 2%			Savings 28%		
						EUR 18 300			EUR 1 100			EUR 19 400		
						Footprint Reduction CO <sub>2</sub> 26 400 kg			Footprint Reduction CO <sub>2</sub> 4 000 kg			Footprint Reduction CO <sub>2</sub> 42 000 kg		
<input checked="" type="checkbox"/>	Gold	Electric or Pneumatic	Yes			Savings 72%			Savings 5%			Savings 28%		
						EUR 24 800			EUR 3 400			EUR 28 200		
						Footprint Reduction CO <sub>2</sub> 48 000 kg			Footprint Reduction CO <sub>2</sub> 17 000 kg			Footprint Reduction CO <sub>2</sub> 65 000 kg		

# >70%

energy savings

In most installations, fans do not need to operate at maximum speed 100% of the time. With a properly designed system, significant energy savings is possible.

## Available packages

### BRONZE

Manual system with basic motor controls

- Easy and simple installation
- Operator/user interface required
- Average savings possible

### SILVER

Automated system with basic motor controls

- Low cost system upgrades
- Minimum operator/user interface required
- Good savings possible

### GOLD

Automated system with automatic motor controls

- Common system components used
- No operator/user interface required
- Great savings possible



Nederman is a world-leading environmental technology company. We filter, clean and recycle to create eco-efficient production in demanding industrial surroundings.

For more than 70 years, Nederman has developed, manufactured, and installed products and solutions to reduce the strain on the environment and improve working conditions in numerous industries.

Our products and systems have been ground-breaking in industries such as machining, metal fabrication, mining, automotive, composite manufacturing, food, pharmaceuticals, wood-working, and many others.