Nederman

Fume Eliminator Family

Mobile and portable high vacuum fume extraction units for occasional and continuous welding applications.

Safe, efficient and profitable

Welding fumes cause health problems and negatively affect production.
The result is reduced capacity, reoccurring disturbances and eventually decreased profit.
Not only are welders at risk in unsafe environments. Other workers, the production equipment, as well as end products, are negatively affected from the lack of adequate safety measures.

It is about health and safety

Breathing. The passage of air into and out of the lungs to supply the body with oxygen is a simple involuntary act that the vast majority of us take for granted.
However, in a workplace without adequate dust or fume control, that simple act could be contributing to short or even long term health problems.

Welding generates particulate, fume and gases which can be harmful if inhaled.
Exposed welders and operators can suffer from several forms of occupational health issues such as metal fever, pneumonia, asthma, Chronic Obstrutive Pulmonary Disorder (COPD) and lung cancer.

It is about productivity

Because welding fume is a thermal process, the particulate is suspended in the ambient air. When the fume plume cools, the particulate settles to the work space.
It builds up on work stations, infiltrates machinery and electrical cabinets, which can cause additional housekeeping to clean up the dust. If ignored, it can cause machinery downtime, loss of production and affect the quality of the end product.

Good work environment is good business.

Nederman Welding Solutions

- Improve workplace environment
- Protect your workers health
- Protect equipment and processes
- Reduce production disturbances and improve profit

Safe and efficient welding processes.

Control of exposure to welding fumes can usually be achieved with the help of extraction and ventilation. The aim is to capture the welding fumes as close to the source as possible. This protects not only the welder but also other workers and machinery.

On-Torch Extraction

Capture the fumes at source is often achieved using self-supporting moveable capture hoods, but these hoods require frequent repositioning.
An alternative method for continuous wire welding processes is the use of on-torch fume extraction.

On-torch welding fume extraction offers many advantages over alternative capture methods:

- Modern torches with extraction when correctly balanced can offer very high capture rates using relatively low air flows, meaning minimal disturbance of the shielding gases and therefore no detriment to the weld integrity.
- The lower high vacuum extract rates needed with on-torch extraction compared to other forms of traditional LEV means lower energy costs for system operating, heating or cooling the workspace.
- Extraction is always at the source of the fume, no need to reposition capture hoods.
- Newly developed torches with integrated extraction are light, robust and maneuverable.

Fume Eliminator Family

FE 24/7

Mobile high vacuum unit for continuous welding

Advantages with Nederman FE 24/7:

- Fumes are extracted efficiently during long shifts of welding thanks to the continuous run, efficient and maintenance-free side channel blower.
- Easy adjustment of air flow depending on application improves productivity and energy efficiency.
- Efficient and automatic filter cleaning assures long filter life for low operating cost.
- Integrated spark trap protects the FE 24/7 from sparks and minimizes the risk of damages to the filter cartridge.
- Filtered air can be re-circulated even when particulates are from high alloy steel (EN 15012).
- Upgrade with automatic start/stop function is available for user-friendly operation and improved energy efficiency.

FE 24/7 1.5	FE 24/7 2.5
1,5 kW 230V, 50Hz, 1-phase 5m cable. Euro or UK plug	2,5 kW 400V, 50Hz, 3-phase 5m cable. CEE plug
Max. air flow 190 m^3/h	Max. air flow 270 m^3/h
Vacuum 35 kPa	Vacuum 37,5 kPa
5 m^2 Polyester >99%, M Class Automatic cleaning	5 m^2 Polyester >99%, M Class Automatic cleaning
1 torch 1 nozzle	2 torches 1 nozzle
72 dB(A)	73 dB(A)
42 kg	59 kg
W3 Class Test according to EN 15012	W3 Class Test according to EN 15012
Manual start/stop Automatic as optional	Manual start/stop Automatic as optional

- High Vacuum technology
- For continuous and occasional welding
- On-torch extraction
- Low services costs
- Easy to carry or move
- User friendly

FE 840 and FE 841

Portable high vacuum unit for occasional welding

Advantages with Nederman FE 840 and FE 841:

- Lightness and portability for services jobs on the field, as well as for welding in confined spaces where the constraint of the welder is normally high.
- Easily adjust the flow to suit different applications and for energy savings.
- Improve energy efficiency and user friendliness with the automatic start/stop feature of the FE 841 model.
- Quick and easy change of the filter cartridge brings efficiency to occasional welding production.

FE 840	FE 841
1,0 kW 120/220-240V, 50Hz, 1-phase Euro or UK plug	1,0 kW 110/220-240V, 50Hz, 1-phase Euro or UK plug
Max. air flow 150 m^3/h	Max. air flow 150 m^3/h
Vacuum 22 kPa	Vacuum 22 kPa
5,3 m^2 Cellulose 99,7% Disposable cartridge	5,3 m^2 Cellulose 99,7% Disposable cartridge
Manual start/stop	Automatic start/stop
73 dB(A)	73 dB(A)
16 kg	16 kg
2,5m flexible hose included	2,5m flexible hose included

Did you know ?

One single welder produces 20-40 g fumes per hour, which corresponds to about 35-70 kg per year.

Airborne particles from 2 weeks welding captured by a Nederman fume collector

Complete solutions that protect your welding processes

Quick selection guide

The Nederman range of solutions with high vacuum technology is the most complete in the market. Our products cover from one to infinite points of extraction.





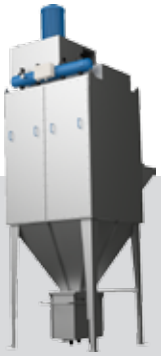


OUR PRODUCTS / YOUR NEEDS	FE 840 FE 841	FE 24/7 1.5	FE 24/7 2.5	L-PAK 150 L-PAK 250	E-PAK 500	FLEXPAK 800 FLEXPAK 1000	VAC 12 VAC 20
1 welder	•	•	•				
2 welders			•	•			
≥ 3 welders					•	•	•
Portable	•						
Mobile		•	•				
Compact and Stationary				•	•	•	•
Occasional/Intermittent welding	•						
Continuous welding		•	•	•	•	•	•
Additional functionalities: - On-tool extraction - Workspace cleaning				•	•	•	•

Low vacuum solutions

Our range of low vacuum products offers the alternative of capture at source with fume extraction arms.





Our offer goes beyond our products

With more than 70 years of experience in extraction and filtration of various air contaminants, Nederman is the world leader in industrial air filtration.
We filter, clean and recycle to create eco-efficient production in demanding industrial surroundings. Our offer includes individual products, engineering design, installation, commissioning and service.
By continually adding new skills and solutions and expanding our geographic presence, we help our customers to develop their businesses.

Worldwide presence

Nederman has a strong global presence in both sales and production. We have our own sales companies in 25 countries and distributors in more than 30 countries. Production is performed in 12 countries on five continents. In many countries, we also have a well-established service organization. By offering advanced service with high availability, Nederman helps customers to secure continuous, optimized production.

Nederman

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, woodworking and many others.

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