



# Welding fume protection systems

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***Nederman***

*Designed and manufactured by Nederman*





# AWS welding fume protection systems by Nederman

AWS has teamed up with the world's leading brand in industrial air filtration to launch a range of Local Exhaust Ventilation (LEV) systems designed specifically for the welding industry.

Designed and manufactured by Nederman, these portable welding fume extractors capture fumes at the source, which is the most effective way to collect and remove fumes.

## Why Use Local Exhaust Ventilation?

- Welders present, on average, a 43% increased risk of lung cancer when compared with those who have never welded or been exposed to welding fume<sup>1</sup>.
- In early 2017, welding fume was reclassified from IARC classification Group 2B (possibly carcinogenic to humans) to Group 1 (Carcinogenic to humans).
- Where substitution and reduction of hazardous chemicals in welding fume is not possible, engineering controls, such as LEV, as well as personal protective equipment must be introduced.

## AWS Welding Fume Protection System 150

Part Number: FPS150

Designed to be carried to and from the working area, the FPS150 is built specifically for welding environments.

Connected to a welding torch or to an extraction nozzle, the FPS150 unit extracts the fume directly at the source with an automatic start/stop function.

- Portable and easy to carry (16kg)
- Low service costs
- Automatic start/stop function
- Simple operation
- Single phase



Extraction nozzles sold separately.



FPSN01

Focused nozzle funnel



FPSN02

Wide nozzle funnel

Power Voltage (V) / Phase	Arm or Hose length (m)	Airflow (m <sup>3</sup> /h)	Filter Type
230v / 1 phase	2.5	150	Disposable

<sup>1</sup> Honaryar MK, Lunn RM, Luce D, et al. 'Welding fumes and lung cancer: a meta-analysis of case-control and cohort studies', Occupational and Environmental Medicine 2019;76:422-431.



## AWS Welding Fume Protection System 900

Part Number: FPS900

The FPS900 is a mobile, single-arm welding fume extraction unit, offering easy and trouble-free operation.

Featuring a flexible extraction arm that can be swiveled 360 degrees, the unit is easy to position, ensuring there is no impact on the welding process.

The cleanable long-life cartridge filter ensures running costs are kept to a minimum.

- 3-metre arm with unbeatable manoeuvrability
- Cartridge filter with high filtration efficiency
- Cleanable filter ensures low running costs
- Motor overload protection device
- Large air volume with low energy consumption
- Single phase
- Blow gun included for cleaning

Power Voltage (V) / Phase	Arm or Hose length (m)	Airflow (m <sup>3</sup> /h)	Filter Type
230v / 1 phase	3	500-900	Cleanable



## AWS Welding Fume Protection System 1800

Part Number: FPS1800

The FPS1800 is a mobile, twin-arm welding fume extraction unit, offering easy and trouble-free operation.

Featuring two flexible extraction arms that can be swiveled 360 degrees, the unit is easy to position, ensuring there is no impact on the welding process.

The two cleanable long life cartridge filters ensure running costs are kept to a minimum.

- 2 x 3-metre arms with unbeatable manoeuvrability
- 2 x cartridge filters with high filtration efficiency
- Cleanable filters ensure low running costs
- Motor overload protection device
- Large air volume with low energy consumption
- Three phase\*
- Blow gun included for cleaning

Power Voltage (V) / Phase	Arm or Hose length (m)	Airflow (m <sup>3</sup> /h)	Filter Type
400v / 3 phase*	3 (x2)	1000-1800	Cleanable

\*The machine is delivered without an electrical plug. Installation of a male electrical plug (max 16A) must be completed by a qualified electrician.

# Spare Parts

Spares to suit FPS900 & FPS1800	AWS Part Number
Replacement particle filter for FPS900 & FPS1800	FPSP01
Spark protector FPS900 & FPS1800	FPSS01
Filter Bag FPS900 & FPS1800 Pack =10	FPSB01
Spares to suit FPS150	AWS Part Number
Replacement particle filter for FPS150	FPSP02
Focused nozzle funnel	FPSN01
Wide nozzle funnel	FPSN02



The most effective way to collect and remove welding fume is to capture the fumes directly at the source.

## Technical Data

Position the extraction hood on the FPS900 and FPS1800 approximately 160-320mm away from the arc (start further away and work your way in if required). Position the capture hood on the bench (0°) or above (90°) the plume. The FPS150 extraction nozzle should be positioned approximately 50-100mm from the arc.

Product Name	FPS150	FPS900	FPS1800
Suitability	0.6, 0.8, 1.0mm wire	0.6, 0.8, 1.0, 1.2mm wire	0.6, 0.8, 1.0, 1.2mm wire
Filter efficiency (%)	≥ 99	≥ 99	≥ 99
Installation	Indoor/Mobile	Indoor/Mobile	Indoor/Mobile
Filter Type	Disposable	Cleanable	Cleanable
Airflow (m <sup>3</sup> /h)	150	500-900	1000-1800
Arm or Hose Diameter (mm)	44	160	160 (x2)
Arm or Hose length (m)	2.5	3	3 (x2)
Number of filter elements	1	1	2
Dust bin volume (l)	N/A	10	10
Weight (kg)	16	150	210
Dimensions (H x W x D) (mm)	410 x 230 x 830	1200* x 665 x 780	1450* x 665 x 780
Power (kw)	1	1.1	2.2
Power Voltage (V) / Phases	230v / 1ph	230v / 1ph	400v / 3ph
Power Draw (Amps)	8.5	6.65	7.56
Filter surface (m <sup>2</sup> )	5.3	12	24
Noise level (dB(A))	73	72	72
Warranty & Compliance	Compliant with International and Australian standards with a one year warranty	Compliant with International and Australian standards with a one year warranty	Compliant with International and Australian standards with a one year warranty

\* Unit only. Not including arm.

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