

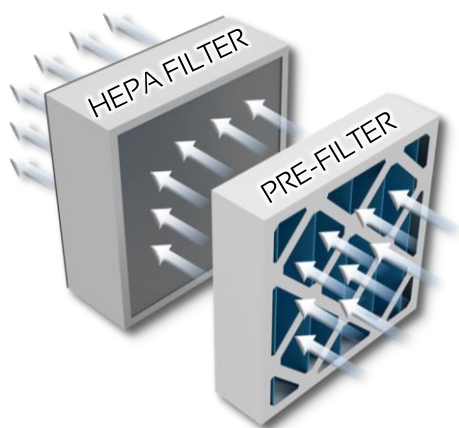
# NPU 500

## Negative Pressure Units

The NPU 500 is a portable, lightweight unit designed to provide a nominal airflow of 500 m<sup>3</sup>/hr. It is ideally suited for use during cutting, grinding, sanding and blasting operations to reduce the levels of dust and particulates in the environment. Its compact size is a practical solution for small or awkwardly-shaped working areas.

Filtering contaminated air is critical to controlling the spread of hazardous substances. SMH's air filtration units are designed to tackle a wide range of contaminants, including asbestos, smoke, dust, pollen, bacteria, fungi and viruses.

Air is drawn into the unit by a powerful motor and through a series of filters with each filter operating with a higher efficiency than the last. This is a two-stage process: a pleated pre-filter which removes all larger particulates from the air, down to 10µm in diameter, and a secondary filter, typically a HEPA (High Efficiency Particulate Air) filter which captures smaller particulates. A H14-class HEPA filter captures at least 99.995% of all particulates around 0.3µm in diameter, and is even more efficient at capturing particulates <0.1µm and >1µm. The filtered air is then vented to the environment.



### At a glance

- All units conform to the high specification of British Standards for equipment used in the controlled removal of asbestos-containing materials as well as a range of other relevant standards
- Sturdy and light, with handles for easier lifting
- Polypropylene housing which is easy to clean
- Quick and easy pre-filter replacement while in situ
- Efficient two-stage air filtration with a pre-filter and a HEPA filter

**Available to buy or hire – contact your nearest branch**

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# Technical Data

## Specifications

Case	Case material	Polypropylene
	Case colour	Grey
	Weight (kg)	19
Electric	Voltage (V)	110
	Mains frequency (Hz)	50
	Supply (no. of phases)	1
	Power, input, max. (W)	234
	Current, nominal (A)	2.15
	Electrical protection	6A MCB
	Isolation on/off switch	✓
Airflow & Filters	Nominal airflow (m³/hr)	500
	Nominal airflow (CFM)	294
	Noise level, max. (dBA) <small>Measured at 1m distance without ducting</small>	72
	Differential pressure gauge (Pa)	0-1250
	Pre-filter dimensions (mm)	296x296x47
	H14 HEPA filter dimensions (mm)	305x305x150
Dimensions	Case length, A (mm)	418
	Case width, B (mm)	487
	Case height, C (mm)	453
	Floor clearance height, D (mm)	N/A
	Exhaust outlet diameter, E (mm)	150
	Exhaust outlet depth, F (mm)	80
	Cover plate width, G (mm)	425
	Cover plate height, H (mm)	425

## Optional Extras

Extras	Hour meter	✓
	Variable speed control	✓

## Certification

- All units come PAT and DOP tested;
- The NPU's comply with BS EN 8520-2:2009 Equipment used in the controlled removal of asbestos-containing materials (ACMs);
- The NPU's HEPA filter complies with BS EN 1822-1;
- All appliances comply with BS EN 60335-2-69 Household and similar appliances;
- The units are manufactured at an ISO 9001 quality assured site.

## Technical Drawing

