

NEDERMAN FILTERBOX MANAGES AIR POLLUTION AT SOURCE

It goes without saying that the more dangerous the air pollution you handle, the more critical it is that you can rely on your filtration equipment. The Nederman Filterbox is designed so that you can concentrate on what is important, the job at hand.

The Nederman Filterbox offers a problem-free, safe solution for dust and fume management. It has been developed to satisfy two important criteria: it must be able to offer a simple and flexible solution to a difficult problem, and it must be reliable with no need for supervision and complicated maintenance.

Examples of air pollutants that the Filterbox can separate are: welding fumes, metal oxides, talcum powder, pigments, lime and grinding dust.

The Filterbox is available in a range of voltage types and with the following five different filter cleaning methods:

- automatic cleaning
- automatic cleaning with compressed air
- mechanical cleaning
- mechanical cleaning with compressed air
- manually operated cleaning

FILTERBOX WITH AUTOMATIC CLEANING

The automatic Filterbox is equipped with a Full Self Management Control System, monitoring every aspect of reliability, efficiency and maintenance, i.e. the current air flow, last clean and full container. The filter is automatically cleaned

when the air flow falls below a preset, predetermined level. When cleaning is required, the system fan is also deactivated.

The cleaning is carried out by a motor turning the filter cartridge against cleaning flaps that carefully and gently dislodge the dust off the filter allowing it to fall into the Filterbox container.

When using the Filterbox together with heavy welding or dust processes it is recommended that our Compressed Air Version is used. The filter is cleaned in the same way, however with the added benefit of compressed air forcing stubborn dust build-up to dislodge.

FILTERBOX WITH MECHANICAL CLEANING

Our most popular models provide the operators with the ability to clean the filter at any time they deem necessary or as a part of workshop maintenance programmes.

The process is the same as our automatic version, with or without compressed air, and is instigated by pressing the cleaning cycle push button on the control box. The fan stops automatically as the cleaning motor starts and the cleaning cycle takes approximately 3 minutes.

FILTERBOX WITH MANUAL CLEANING

If manual control is preferred, a simplified Filterbox is available that can be cleaned with a hand powered crank.



For users working with fume and dust particles that are difficult to remove, i.e. from production welding, the Filterbox with a compressed air unit is used.

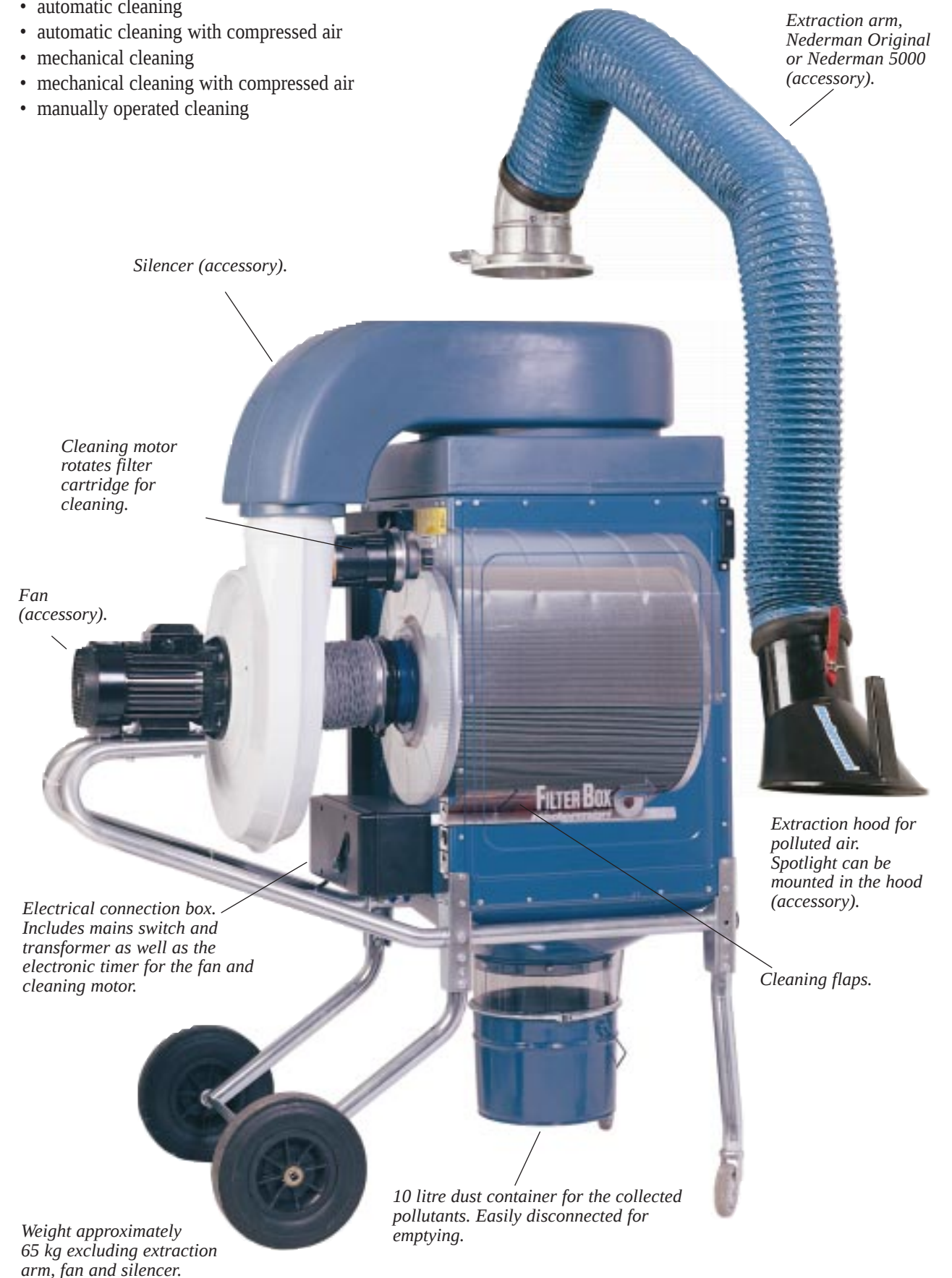


For dry dust extraction, the Filterbox with mechanical cleaning is ideal.

FIVE FILTERBOX MODELS

The Nederman Filterbox is available in five models:

- automatic cleaning
- automatic cleaning with compressed air
- mechanical cleaning
- mechanical cleaning with compressed air
- manually operated cleaning



Nederman Filterbox is a registered name.

TECHNICAL DESCRIPTION

RANGE OF MODELS 50/60 Hz

Filterbox, manually operated cleaning,
equipped with a crank handle.
Part No. 600163

Filterbox, mechanical cleaning, for dry dust particles.

Part No.		Part No.	
601163	220-240 V, 1~	603663	460 V, 3~
601063	220-240 V, 3~	602463	500 V, 3~
601363	380-400 V, 3~	602863	600 V, 3~
602963	415 V, 3~	602263	110-120 V, 1~

Filterbox, mechanical cleaning with compressed air,
for heavy duty welding or dust processes.

Part No.		Part No.	
603163	220-240 V, 1~	603863	460 V, 3~
602063	220-240 V, 3~	603563	500 V, 3~
603263	380-400 V, 3~	603463	600 V, 3~
603763	415 V, 3~	602163	110-120 V, 1~

Filterbox, automatic cleaning, for dry dust particles.

Part No.		Part No.	
604263*	220-240 V, 3~	604663*	460 V, 3~
604363*	380-400 V, 3~	605563*	600 V, 3~
604463*	380-400 V, 3~		

Filterbox, automatic cleaning with compressed air,
for heavy duty welding or dust processes.

Part No.		Part No.	
604863*	220-240 V, 3~	605263*	460 V, 3~
604963*	380-400 V, 3~	605663*	600 V, 3~
605063*	380-400 V, 3~		

*Silencer 371420 should be used together with these models

FILTRATION EFFICIENCY

The filtration efficiency is usually expressed as a total weight separation efficiency. Dust with small particle sizes is more difficult to capture than coarse dust. The Nederman Filterbox has a high separation efficiency for all types of dry dust and fumes.

The Filterbox equipped with a standard cartridge has a typical average efficiency of 99% for welding fume.

The Filterbox with the high efficiency cartridge has a typical average efficiency of 99.9% for welding fume and also has a higher average air flow.

NOISE LEVEL

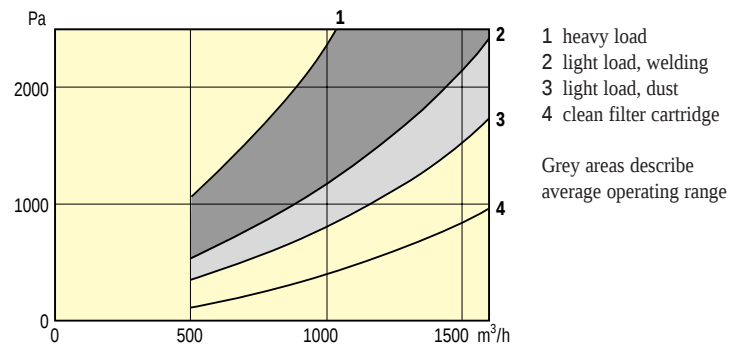
The noise level has been measured according to ISO 6081. For Filterbox with silencer the levels are:

65 dB(A) with 3 m fume extractor and fan N24
68 dB(A) with 3 m fume extractor and fan 529

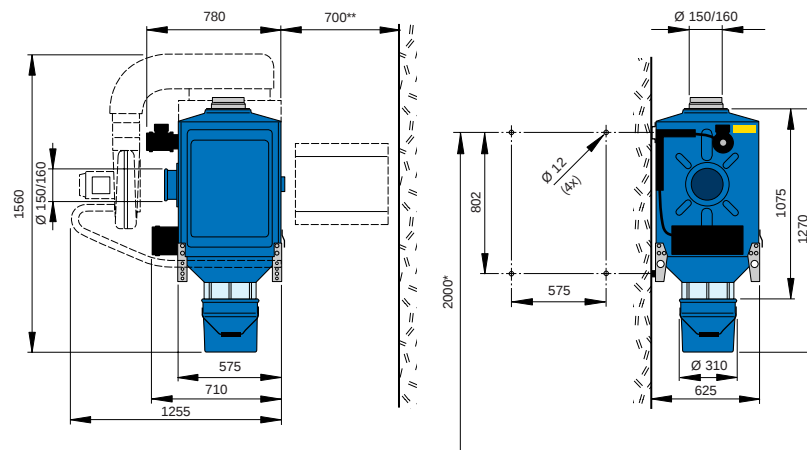
For Filterbox without silencer the levels are:
72 dB(A) with 3 m fume extractor and fan N24
75 dB(A) with 3 m fume extractor and fan 529

AIR FLOW AND PRESSURE DROP

The pressure drop across the Filterbox varies with air flow and dust load. Maintaining a certain average air flow with increasing dust load requires a shorter interval between cleaning.



DIMENSIONS



* Recommended mounting height from floor.

** Minimum distance from wall to achieve filter cartridge change.

Weight approx. 65 kg excl. fume extractor, fan and silencer.

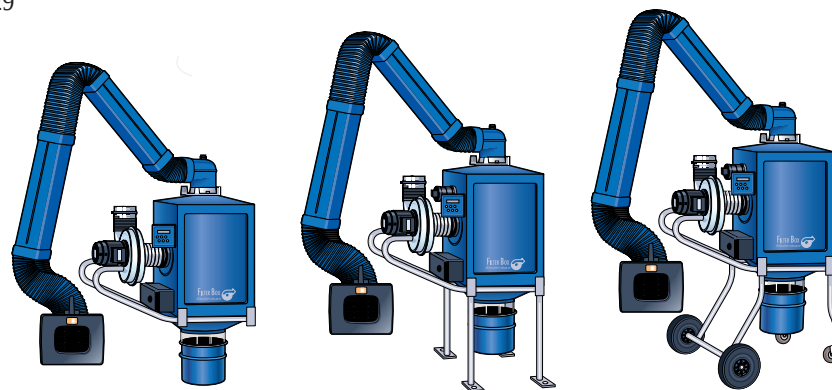
WARNING!

Risk of fire and explosion.

Do not use the Filterbox for inflammable or explosive dust/gases.

Risk of personal injury.

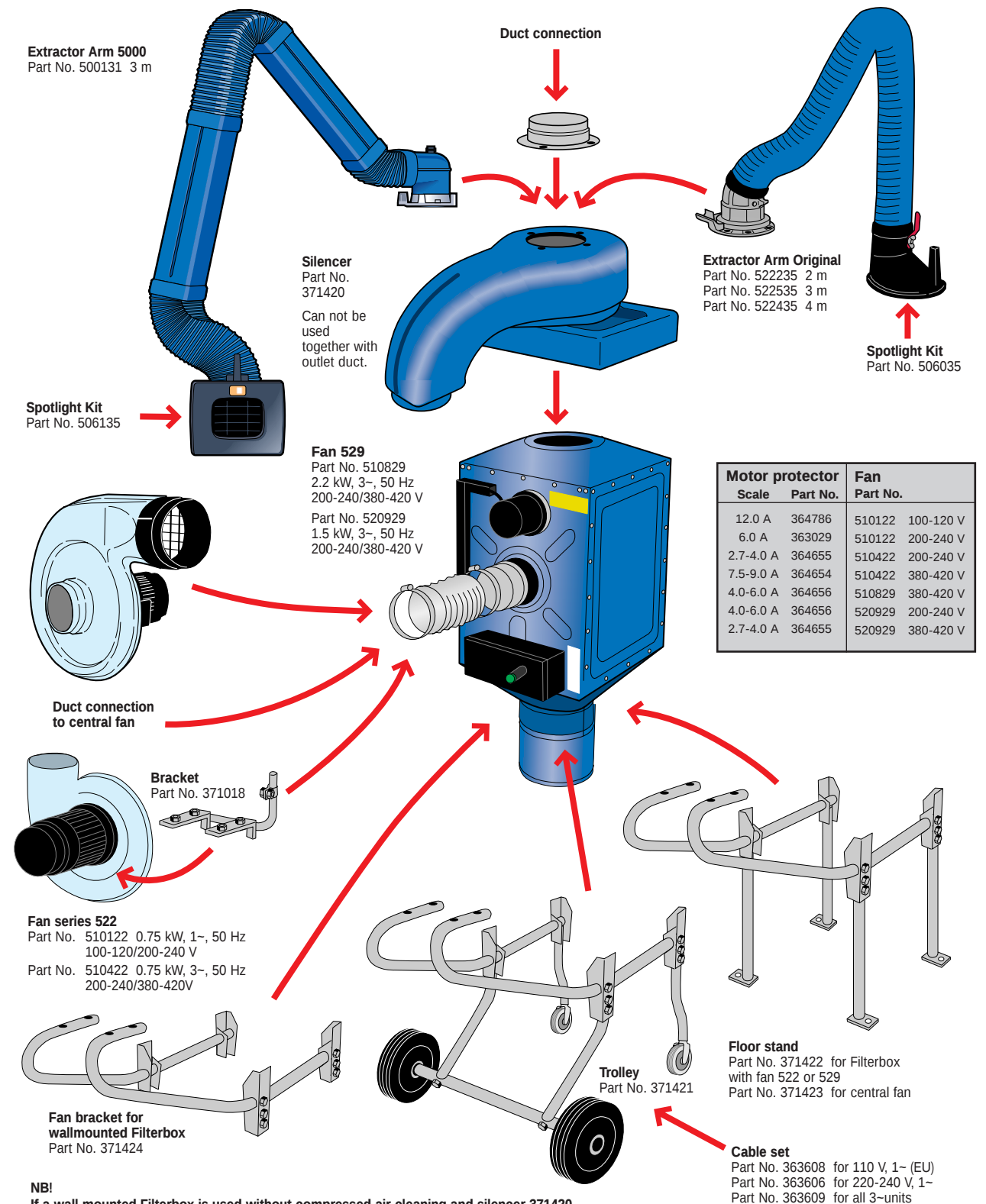
If the Filterbox is a fixed unit and used to separate fumes that may be a health hazard, i.e. beryllium, cadmium, lead and asbestos, in some countries the purified air may not be recycled in the workshop.



The Nederman Filterbox is designed for mounting on a wall, floor or trolley. Nederman Fume Extractor Arms, floor stand, brackets, fans automatic damper and silencer, for use with the Filterbox, are purchased as accessories.

FILTERBOX

COMBINATION POSSIBILITIES AND ACCESSORIES



NB!

If a wall mounted Filterbox is used without compressed air cleaning and silencer 371420, the fan series 522 can be fitted directly on the Filterbox without brackets 371018 and 371424.

When working with fume and dust particles that are difficult to remove fan series 529 must always be used.

Automatic damper

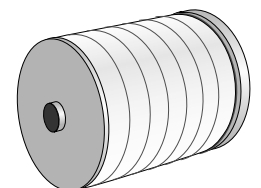
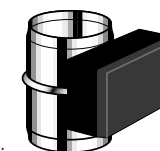
Used when more than one filter is connected to a central fan. Closes ventilation ducts during cleaning operation.

Part No. 501193 Damper with automatic start/stop.
Works with all forms of electric welding.

Part No. 501293 Damper without automatic start/stop.

Filter cartridge

Filter cartridge
With extra high filtration
efficiency, 99.9% for
welding fume.
Part No. 371106



FUME AND DUST FREE WITH THE FILTERBOX



Nederman[®]



FILTERBOX

SOLVES DUST PROBLEMS WHERE THEY OCCUR
– AT SOURCE

Nederman[®]
Improving your workspace

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INVESTOR IN PEOPLE

The majority of Nederman products are manufactured
within SS-EN ISO 9001-certified Quality System.
For more detailed information please contact us.

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