FREDERICK CROWTHER AND SON LTD





Advantages

- ✓ One machine for all applications
- Life Cycle Cost Low
- ✓ 99.97% Particle free Air!
- Minimal Maintenance
- Minimal Filter Change
- Suitable for applications with high degree of solid particles
 ...plus many more

3Nine Mist Extraction

Oil mist separator with high purification, low maintenance and outstanding operation economy.

www.cromar.co.uk

How it works

Operating on a centrifugal separation technology, coolant is drawn in to the separation chamber where coolant solids attach themselves to the rotating Multi Rotors. These rotors coalesce the coolant in to larger droplets which are eventually thrown off to the outer wall and returned to the coolant tank. Air is then forced through the final stage of filtration of the HEPA filter which is actually at this stage only filtering the final 1% of the air contamination.

Secure working environment

Oil mist exposure can cause severe health issues for the operator. If not handled properly, the oil mist will coat the surfaces in the shop, causing risk of injuries by slippery surfaces, an increased need of cleaning and damages on electrical devices. With an oil mist separator from 3nine, this will not be a problem. The air coming out of a GREEN LINE oil mist separator is so clean that it can be recycled right back into the workshop and guarantees an optimal working environment for the operator.

- 1. Inlet for polluted air
- 2. Counter flow separates the largest particles down to ~ 10 µm
- 3. Disc Stack separates smaller particles at 100% > 1 µm
- 4. Multipolar Connector
- **5.** Separated cutting fluid is fed back out to the machine tool for reuse
- 6. Drive belt
- 7. Final Stage The HEPA filter further cleans particles to 99.97%

Image for illustration purposes only





99.97% **Particle Free Air**

2 5

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Suitable for use on machines with the following:

- ✓ Grinding Coolant emulsion
- ✓ Turning Coolant emulsion
- Milling Coolant emulsion





NOVA 300 Max cabin size

<2 m3

Air flow	300m3/h
Motor rating	0.37 kW
Rated current	1 A
Weight	35 kg
Height	550 mm
Length	694 mm
Depth	475 mm
Inlet pipe	Ø 100 mm
Sound level	< 65 db

ANNA 600	
Max cabin size	<6 m

Max cabin size	<6 m3
Air flow	600 m3/h
Motor rating	0.75 kW
Rated current	1.9 A
Weight	77 kg
Height	936 mm
Length	748 mm
Depth	546 mm
Inlet pipe	Ø 200 mm
Sound level	< 70 db



- Minimal Duct Work
- Recycling of cutting fluids
- No Oily Surfaces in the Workshop
- Compact and Direct Installation
- Low energy use

- EDM machines
- Sliding head machine using neat oil
- ✓ High pressure coolant applications 70 bar



NINA 900

Max cabin size	<9 m3
Air flow	900 m3/h
Notor rating	1.5 kW
Rated current	3.3 A
Veight	115 kg
leight	936 mm
ength.	777 mm
Depth	833 mm
nlet pipe	Ø 200 mm
ound level	<70 db



LOVA 1200

Max cabin size	<12 m3
Air flow	1200 m3/h
Motor rating	1.5 kW
Rated current	3.3 A
Weight	120 kg
Height	936 mm
Length	777 mm
Depth	833 mm
Inlet pipe	Ø 200 mm
Sound level	<70 db

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EST 1955

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