

FREDERICK CROWTHER AND SON LTD

CROMAR

EST 1955



Advantages

- ✓ 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 Blue Line Mist Extraction

The 3nine - Blue Line provides a healthier and safer working environment, allowing you to focus on your production.

www.cromar.co.uk

How it works

The unique patented technology separates the oil mist and other coolants up to 99.9%* with a particle size down to 1µm by using centrifugal forces. This process requires a minimum of maintenance. A rotating disc stack separates the oil mist more effectively than traditional centrifugal separation technologies like cyclones and rotating filters. The rotor also functions as a fan evacuating the mist making external fans unnecessary.

The BLUE LINE series of units separate 99.9% of all fluid particles down to 1µm, 91% down to 0.9µm and 82% down to 0.75µm. In order to capture the finer particles that are <1 µm, 3nine uses a HEPA filter (H13) to ultimately clean the air to 99.97%. With most of the particles separated in the disc stack, only 1% of the particles are collected in the HEPA filter.

1.

Oil smoke / Oil mist enter the spinning disc stack
2.

Separation of drops and particles in the disc stack. Drops coalesce and flow outwards.
3.

Large drops leave the disc stack and are thrown towards the wall.
4.

Clean air helps transporting the separated oil to the outlet.
5.

Clean air rerouted upwards.
6.

Separated oil/cutting fluid is fed back out to the machine tool for reuse.
7.

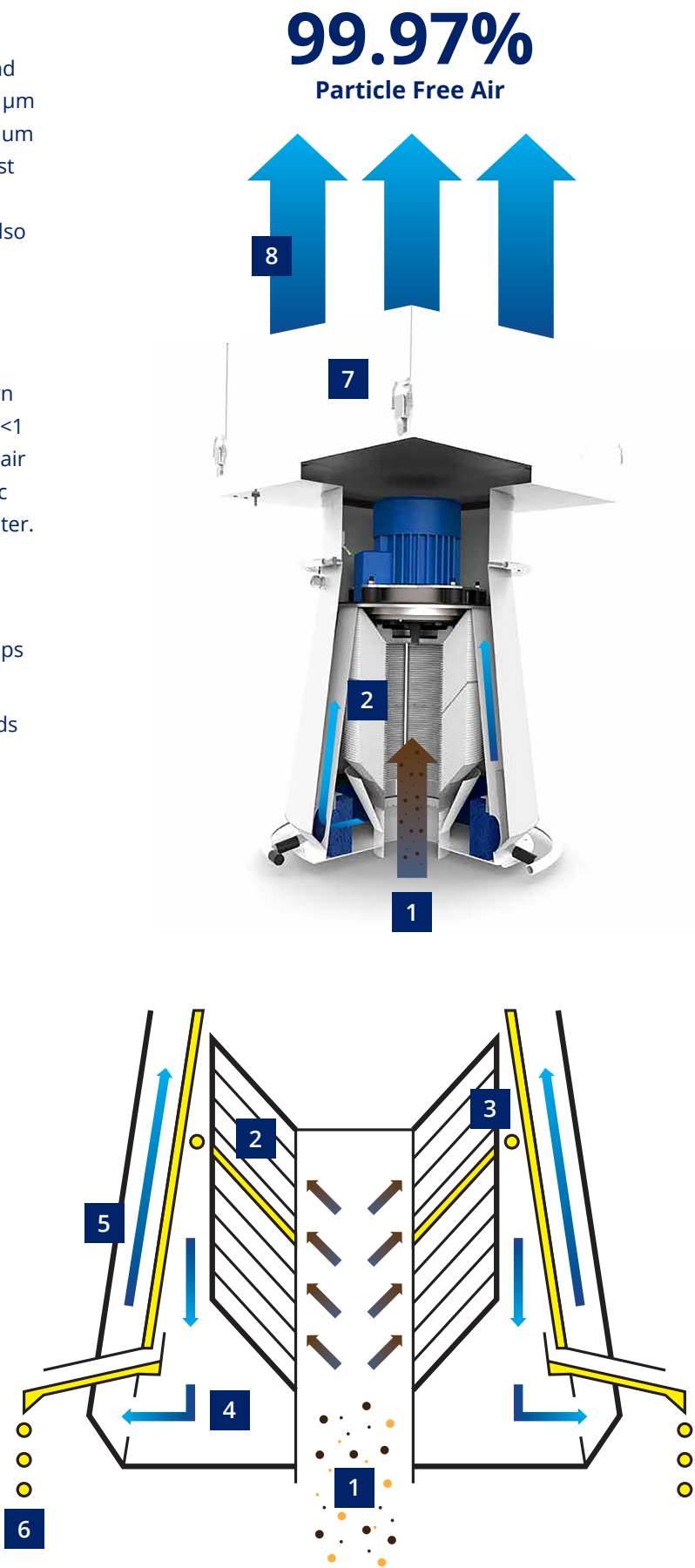
The particles smaller than 1µm, will be collected by the final stage HEPA filter.
8.

99.97% particle free air

Image for illustration purposes only

Recycle, Reuse & Reduce

The air coming from a BLUE LINE can be recycled directly back into the workshop. The separation technology also allows for reuse of oils and coolants. By separating instead of collecting oil and cutting fluid in a filter, you will be able to reduce your company's CO₂ footprint.



Advantages

- ✓

Life Cycle Cost - Low
- ✓

99.97% Particle free Air!
- ✓

Minimal Maintenance
- ✓

Minimal Filter Change
- ✓

Suitable for applications with high degree of solid particles
- ✓

Minimal Duct Work
- ✓

Recycling of cutting fluids
- ✓

No Oily Surfaces in the Workshop
- ✓

Compact and Direct Installation
- ✓

Low energy use

Suitable for use on machines with the following:

- ✓

Grinding Coolant emulsion
- ✓

Turning Coolant emulsion
- ✓

Milling Coolant emulsion
- ✓

EDM machines
- ✓

Sliding head machine using neat oil
- ✓

High pressure coolant applications 70 bar



LINA

Cabin size	< 5m3
Conditions	5-50° C
Motor rating	0.55 kW
Rated current	1,35 A
Weight	54 kg
Height	840 mm
Diameter	Ø 480 mm
Inlet pipe dimension	Ø 125,5 mm
Sound level	< 65 db



CLARA

Cabin size	< 10m3
Conditions	5-50 °C
Motor rating	1,5 kW
Rated current	3,2 A
Weight	89 kg
Height	1145 mm
Diameter	Ø 640 mm
Inlet pipe dimension	Ø 161 mm
Sound level	< 65 db



EMMA

Cabin size	< 20m3
Conditions	5-50 °C
Motor rating	5.5 kW
Rated current	11,3 A
Weight	131 kg
Height	1145 mm
Diameter	Ø 670 mm
Inlet pipe dimension	Ø 316 mm
Sound level	< 70 db



PETRA

Cabin size	< 10m3
Conditions	5-50° C
Motor rating	1,5 kW
Rated current	3,2 A
Weight	96 kg
Height	1145 mm
Diameter	Ø 500 mm
Inlet pipe dimension	Ø 160 mm
Sound level	< 70 dB

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