

**Manufacturing
without
downtime**

Plug-n-Play Oil Mist Remover

Models | OS450 to OS850

Flow rates 265 SCFM (450 Nm³/hr) to 492 SCFM (835 Nm³/hr)

Oil Shield's unique range of high-flow filtration panels delivers unmatched value for money while ensuring exceptional filtration performance.

Featuring advanced multi-stage filtration technology, Oil-shield utilises three filtration sequence; coalescing and reverse flow particulate (dust) and Activated Carbon filters—ensuring optimal protection for laser cutting systems.

Designed with a high-flow architecture, Oil Shield handles flow rates of up to 492SCFM (835 Nm³/hr) without compromising performance, making it ideal for high-demand industrial environments.

With connections ranging from ¼” to 1” for seamless integration into existing gas lines. Its plug-n-play design features quick-swap filter elements with double O-ring seals, ensuring secure, leak-free operation and easy maintenance.



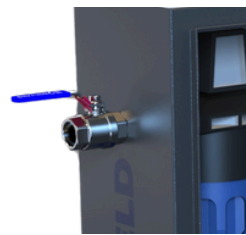
Performance Guaranteed

Filtration sequence guarantees maximum protection to 0.003ppm



Performance Guaranteed

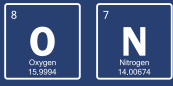
Each system is pressure tested prior to dispatch



Comprehensive Range

BSPP threaded connections from ¼” to 1”. Larger connections available upon request

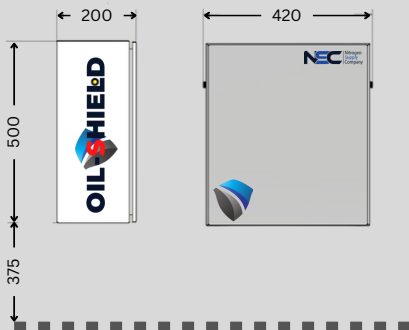
- **Prevents Oil Contamination:** Captures 99.997% of contaminants as small as 0.01µm.
- **Protects Laser Heads:** Prevents oil-induced damage, saving thousands in repair costs.
- **Ensures Consistent Performance:** Maintains clean gas flow for precision cutting.
- **Reduces Downtime:** Keeps lasers running longer with fewer interruptions.



Technical Specification

| Model | Max Flowrate (m3/hr) | Max Oil Carryover (mg/m3) | Operating Pressure (bar) | Connections (inches) | Dimensions (WxHxD) | Weight (Kg) |
|--------|----------------------|---------------------------|--------------------------|----------------------|--------------------|-------------|
| OS-450 | 450 | 0.003* | 50 | 1/2 | 420 x 500x 200 | 15 |
| OS-550 | 550 | 0.003* | 50 | 3/4 | 420 x 500x 200 | 16 |
| OS-850 | 850 | 0.003* | 50 | 1 | 420 x 500x 200 | 17 |

* Inlet oil concentration = 10 mg/m³.



Models
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Technical Notes

1. The direction of gas flow is left to right for the filtration panel. Right to left flow available upon request.
2. All 50 barg Alloy High Pressure Filters within the filtration panel are supplied with a drain plug. High pressure drains are available.
3. Activated Carbon Filters will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO²).
4. Filtration panel is suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.
5. Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months.

Laser systems we protect:

