



JetBlack Safety Frequently Asked Questions

A safer, faster, energy-efficient alternative to compressed air.

Introduction

Want to know how our systems work, what makes them safe, and which model fits your needs? This FAQ addresses the most frequently asked questions. For more detail, see our [Glossary of Terms](#).

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Product Function & Safety

Do JetBlack Safety systems “suck” like vacuums?

No. JetBlack Safety systems are not vacuum cleaners, but blower-powered systems that dislodge dust and debris from clothes and skin using high-volume, low-pressure air. This approach is safer, faster, and more energy-efficient than vacuuming. For example, it takes up to 30 seconds to de-dust with JetBlack, compared to 5 minutes with a vacuum (NIOSH Report).

What does “high-volume, low-pressure” mean in JetBlack systems?

This refers to the airflow style used in our de-dusting units. Unlike compressed air systems, which can operate at 30 psi or more (up to 90 psi if unregulated), JetBlack Safety systems use air at just 2.3 psi, which is considered low pressure.

JetBlack Safety units compensate with higher airflow (volume), which means they deliver effective cleaning power from the nozzle without the risks associated with high-pressure air. This approach is safe, OSHA-compliant, and strong enough to remove stubborn dust and debris.

Why is low pressure beneficial?

The use of low pressure means our technology is safe to use directly on unbroken skin. Any cuts or damaged skin should be protected during use. High-pressure systems, such as those using compressed air, are unsafe to apply directly to the skin.

Why does the air feel hot?

Blower systems naturally warm air due to friction during pressurisation. The temperature increase is safe and depends on ambient conditions.

Product Function & Safety

What happens to the dust after cleaning?

In Cleaning Booths, the airborne dust is drawn through a grille floor into an extraction system with dual-stage filtration (including HEPA F9 and H14). This high-performance filter collects more than 99.995% of dust particles, giving the highest level of protection.

As the cleaning station does not have an inbuilt extraction for capturing airborne dust, this model is not recommended for removing hazardous respiratory dust.

Do operators need to wear PPE/RPE during use?

Yes. While JetBlack Safety systems are safer than compressed air, de-dusting still releases particles. We recommend that operators wear at least an FFP3 mask, as well as eye protection and hearing protection.

Are JetBlack Safety systems suitable for ATEX or explosive dust areas?

No. JetBlack Safety systems are not ATEX-certified and should not be used in explosive or classified dust environments. They are designed for heavy-duty applications such as mining, textiles, paper, agriculture, and bulk handling, but not where explosive dust atmospheres exist.

To our knowledge, no fully ATEX-certified personnel cleaning booths are currently commercially available due to such systems' complexity and safety requirements.

Do JetBlack Safety systems meet safety standards?

Yes. They comply with OSHA regulations (29 CFR 1910.242(b)) by operating below 30 psi and include integrated safety and noise-reduction features.

Where can I see JetBlack Safety in action?

We offer demo videos, case studies, and trial units through selected partners. Contact us to discuss options based on your location.

System Types & Usage

When should I choose a booth over a wall-mounted unit?

Choose a Cleaning Booth when:

- You need to control or capture airborne dust (especially hazardous).
- You're working in enclosed environments with dust exposure risk.

Use a Wall-Mounted Cleaning Station when:

- The dust is not hazardous.
- Simpler installation and open-air use are appropriate.

Why is there a 30-second timer on the wall-mounted unit?

The timer ensures optimal cleaning while preventing unnecessary use. Most users complete de-dusting in 20–30 seconds. The timer is factory-set and not adjustable. The portable unit is designed to be unplugged after use, so no timer is required.

Can I get a longer hose for the cleaning station?

Yes. The standard hose length on our wall-mounted cleaning station is 1.5m, while our portable cleaning station comes with a 2.5m hose as standard. We can supply longer hoses up to 6m in length if required.

What kind of power supply is required?

JetBlack Safety systems run on electricity only; no compressed air is needed.

Cleaning Station: 230V or 120V, single-phase

Cleaning Booth: 240V or 400V, single or three-phase option

[Contact us](#) or your [local distributor](#) if you're unsure which version suits your site.
[Download the relevant user manual](#) for complete details.

Maintenance & Performance

What maintenance is required?

Cleaning Stations: Check the filters monthly and replace every 3 months (or more often in harsher environments).

Cleaning Booths: Maintain both the booth and extraction filters. Use the built-in Magnehelic pressure gauge to monitor pressure and know when to change filters (typically every 3–6 months). Changing the filters is very quick and easy.

Replacement filters and parts can be ordered directly from our [Spares & Accessories](#) page.

Are JetBlack Safety systems easy to install?

Yes. Our units are designed for quick, straightforward installation:

- Plug-and-play functionality
- No specialist installation required
- Wall-mounted units are fixed using standard brackets
- Portable units require only a power connection

Cleaning Booths may require positioning and connecting the extraction system. A complete installation guide is provided with every product and is also available to download from the product page.

Please note: In the UK, Local Exhaust Ventilation (LEV) systems must be commissioned by an LEV-approved engineer. We can assist with commissioning, contact us for more details.

How does the thermal overload feature work?

If the motor gets too hot, the thermal cut-out automatically shuts the system down to prevent damage. It will restart automatically after cooling. For portable units, be sure to switch them off manually during this process.

What is the expected motor lifespan?

The motor has a typical MTBF (mean time between failures) of ~500 hours. Regular filter changes reduce stress on the motor and extend its life. When needed, motors are easy and affordable to replace.

How much air does the extractor move?

The extractor moves up to 18,000 m³/hr (depending on the filter condition). This means a full air change in the booth occurs roughly four times in a 30-second cycle.

Warranty & Support

Do JetBlack Safety systems come with a warranty?

Yes. All systems come with a 12-month warranty. Support and servicing options vary by country, your distributor will provide full details.

How long will the system last?

With proper maintenance, JetBlack Safety systems last many years, some over 20 years in operation. However, neglecting filter replacement can shorten the unit's lifespan.

Contact & Resources

[Contact Us](#) to request a demo, trial unit, or speak to a technical advisor
[Glossary of JetBlack Safety Terms](#)
[Explore JetBlack Safety Products](#)

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