
Air Showers and Tunnels FAQs

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What is an air shower?

Air showers are antechambers that help decontaminate personnel prior to their entering a critical environment. Decontamination is completed through a cycle where air is blown through nozzles that are evenly distributed throughout the enclosure walls. This air is recirculated through filters (typically HEPA filters) and clears dust and dirt particles off the bodies of personnel.

Can custom air showers be manufactured?

Terra Universal offers both standard and custom air showers. Please contact us for more information.

Do you have UL-listed air showers?

Yes, Terra Universal offers UL-listed air showers. Please contact us for more information.

Is it possible to alter the settings on the air shower?

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Terra's air showers allow the operator flexibility to program numerous settings using an easy-to-use touch-screen control panel. You can easily set cycle operation times, entrance/exit delays, when the lights turn off/on, and more.

How do you ship your air showers?

Terra Universal normally ships air showers as pre-assembled systems. However, you can request to have your order shipped disassembled for easier transport through standard doorways or more space-restrictive access areas. Just notify your Terra sales associate to include this "Knock-Down" option when ordering.

What is the air flow velocity inside the air shower?

When the shower cycle commences, pressurized air streams from adjustable nozzles at a velocity of up to 8,000 feet per minute (41 meters per second). This ensures the necessary efficient scrubbing action to remove particulate matter.

Can I control the lights independently from the air shower cycle?

Terra's air showers come standard with occupancy sensors that, when triggered by personnel presence, turn on the lights in the enclosure. A delay time is programmable to automatically turn off these "Smart Lights."

How can I rate the efficacy of my air shower?

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You can rate the efficacy of the air shower by measuring the air flow velocity at each nozzle. Each nozzle is designed to provide up to 8,000 feet per minute of air flow. If the measured velocities fall significantly short of 8,000 feet per minute, check whether the HEPA filters need to be replaced.

Can your air showers work in the opposite mode?

Terra's air showers come standard with the capability to reverse the function of the entrance and exit doors at the touch of a button.

How often do the HEPA filters need to be replaced?

The frequency at which the HEPA filters need to be replaced depends on each application. Test when the filters need to be replaced if air flow at the air nozzles reduces significantly. Terra Universal provides a "Run Times" feature where personnel can keep track of how much air shower operation time and cycles have elapsed to help in setting up a filter replacement maintenance protocol.

How do you clean an air shower?

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Please refer to Terra's "Cleaning Procedures" Manual, which can be found in the "Product Manuals" section of TerraUniversal.com under the "Modular Clean Rooms" category.

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