



# Cannabis Cleanroom Equipment



# Atmos-Tech Air Showers

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# Cannabis Cleanroom Equipment



Standard construction for air showers is epoxy-painted steel, with anodized-aluminum doors and PLC controller with push-button LED controller adjacent to the entry door.

However, there are many options available for the Atmos-Tech air showers, to name just a few:

1. 304L stainless-steel construction, suitable for food-grade cGMP application
2. Floors with grates, trays, drains, etc.
3. Card-reader entry and/or exit.
4. Ceiling laminar-flow HEPA/ULPA Filters
5. Multi-access doors, roll-up doors, etc., etc.



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Smaller air showers, like the model **AS337** (*shown at left & right*) or model **AS347**, ship as 1-pce or 2-pce units. This makes field installation fast and simple. Electrical panels can be internally (or externally) mounted to customer's requirement. Simply provide supply power and make a few electrical connections to get your shower operational!

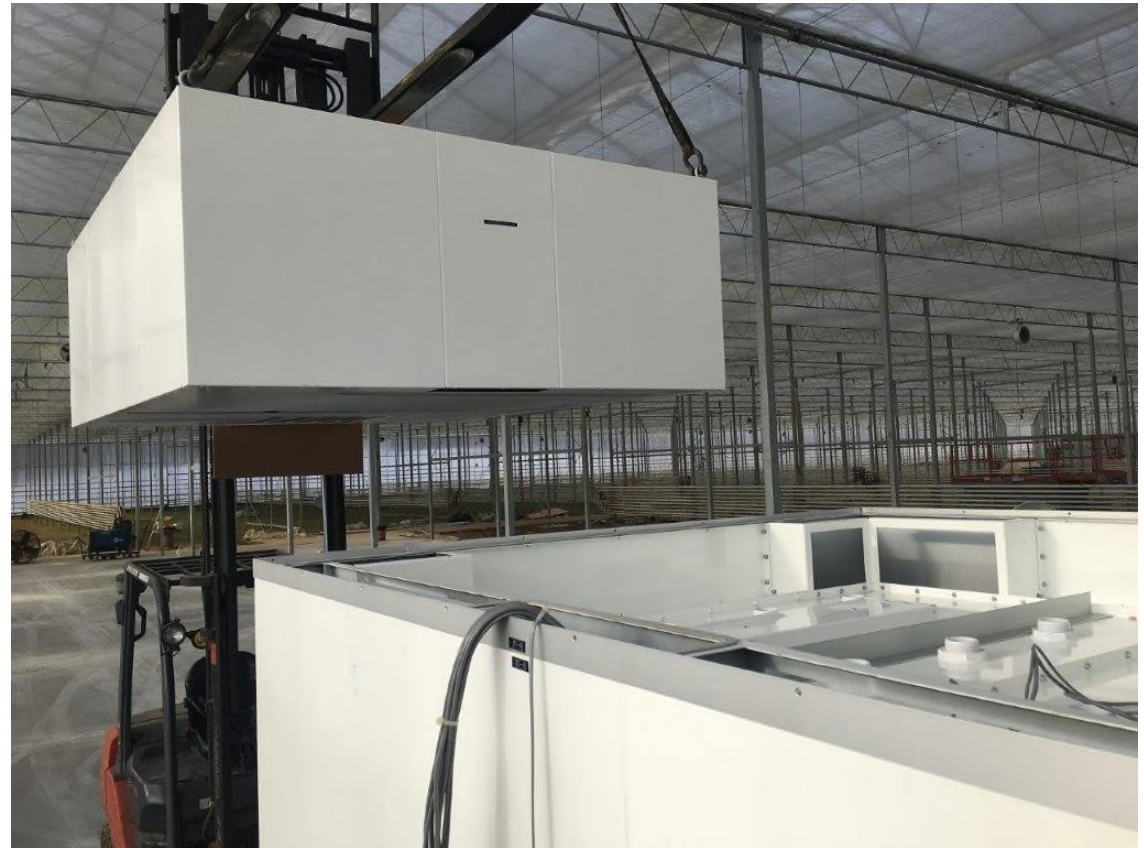




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Standard arrangement is to have the shower shipped in two sections; base section and top (filter & fan) section. Sides are labeled to ensure correct orientation and alignment of air and electrical chases. In the picture you can see the electrical cables as well as some of the air chases.





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Larger units, and units being installed in tight spaces, have to be broken-down at the factory (after complete assembly and testing) for reassembly at the site. This requires a conscientious contractor to ensure a proper, airtight installation. Showers that are going to be site assem-

bled are carefully labeled at the factory to ensure exact reassembly. All seams are gasketed and caulked as required.





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When high personnel thru-put is required, the best option is an air-tunnel. When an Ontario food processor needed an air shower installed to meet corporate and cGMP requirements, they decided to purchase a 3x10 air tunnel. The motion activated fans allow a continuous stream of personnel into the cleanroom, eliminating the need for door interlocks. Side mounted filters and fans were required due to low headroom in the change-room corridor.



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For large, custom showers like the one pictured here, site assembly by an experienced installer is mandatory. This model AS8109 (8'x10'x9' ID) shower with two high-speed roll-up doors arrived at the site in (3) large crates, weighing approx. 5000-lbs. Installing the two top-mounted filter-fan cabinets required a lot of finesse, given only a few inches of clearance to the trusses above.



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*(Continued)*

Regardless of the model being installed, it is always preferred to install an air shower at the first stages of construction, given the work and rigging required. Even with factory broken-down construction, a large work area is required for wall erection and fan cabinet mounting. On this tight install a bulkhead (top-right of pic) had to be provided to allow for filter & fan access.

This roll-up door shower was installed in 2018 in the **Shipping-Receiving department** at a medical-grade cannabis facility here in Ontario.







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Atmos-Tech air shower electrical panels are designed and built at their in-house **UL508A certified** panel shop. UL508A certification means they can apply the cUL mark on all their electrical panels (*see pic at bottom left*).

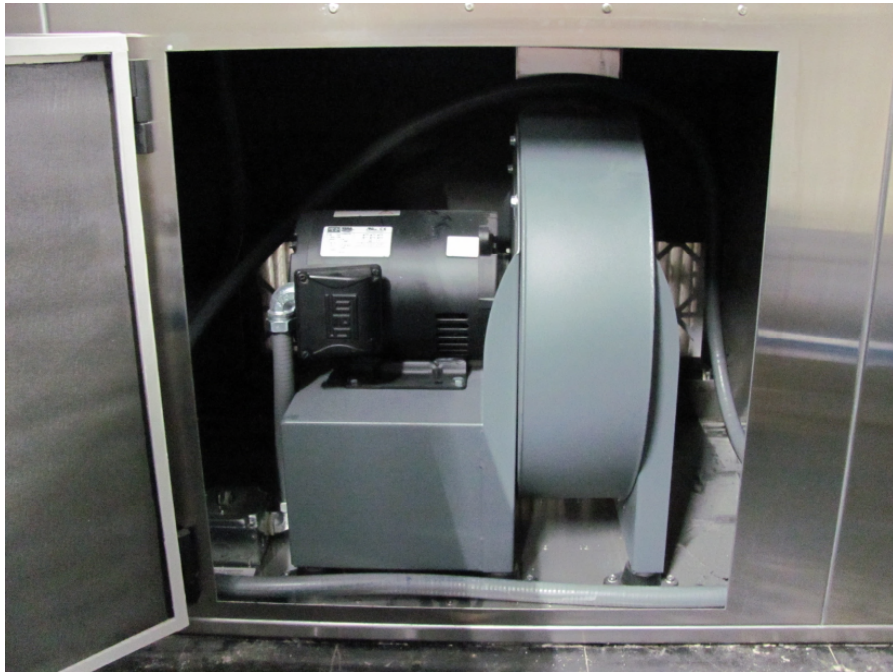


Many electrical options are available for the air showers, including explosion-proof electrics, *as shown at pic right*.





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Apart from **cUL labeled** electrical panels, all components are UL listed and labeled. Motors are available in 1-phase or 3-phase, and 600V (Canadian) voltages is easily accommodated. Motors and filter sections are typically top-mounted, but side-mounted fans and filter sections are available for low-headroom facilities.



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Larger units, and units being installed in tight spaces, need to be broken-down at the factory (after complete assembly and testing) for reassembly at the site. This requires a conscientious contractor to ensure a proper, airtight installation. Showers that are going to be site assembled should be installed immediately after floors are finished.



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**Misting Showers:** Apart from air showers, **Atmos-Tech** offers a full line of Misting Showers. As the name implies, misting showers spray a fine mist of ionized-water on the occupant as they exit the cleanroom. The occupant then removes their cleanroom garment before exiting the misting shower. These showers are typically used in manufacturing suites where active ingredients are in powder form and need to be contained within the cleanroom. *Continued on next page*





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**Misting Showers:** Misting showers are typically 304L stainless-steel construction, construction that is suitable for the high-moisture environment. Misting showers can also be designed to provide a misting cycle plus an air shower cycle, otherwise a “Misting-Air Shower”. For example, personnel exiting a “Mother Room” at a cannabis operation may want an air-cycle followed by a misting-cycle to blow-off and then contain sticky pollen to prevent it from cross-contaminating crops in other rooms in the growing operation.