



## HALCO PRODUCTS COMPANY

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### AIR SHOWER SEQUENCE OF OPERATION

#### Air Shower Basic Sequence of Operation

##### Entry cycle:

- 1) At rest, both doors are un-locked, and shower is in a ready state.
- 2) When the entry door is opened, the exit door will lock, and touchscreen will read "door 1 open".
- 3) Personnel shall step into the air shower and will be detected by the presence sensor.
- 4) Entry door will close, which will lock both doors, and start the high pressure blow off scrubbing cycle.
- 5) The blow off cycle will time down. Factory timing is set to 30 seconds (adjustable). Once the cycle completes, the blower shuts off, and the exit door unlocks.
- 6) The personnel inside will open the exit door, which shall lock the entry door and screen will read "door 2 open".
- 7) Personnel will step out of the air shower. The exit door will close, unlocking both doors, and the air shower is now back to a ready state.



##### Exit cycle:

- 1) At rest both doors are unlocked, and shower is in a ready state.
- 2) When exit door is opened the entry door will lock and touch screen will read "door 2 open".
- 3) Personnel shall step into air shower.
- 4) Exit door will close which will unlock both doors.
- 5) The personnel inside will open the entry door which shall lock the exit door and screen will read "door 1 open".
- 6) Person will step out of the air shower. The entry doors will close unlocking both doors and the Air shower is now back to a ready state.

##### Alarms:

If any E-Stop is pressed the alarm will sound and all other outputs will turn off

(Blowers will turn off and all locks will unlock, allowing free passage)

If both doors are open at any time you will get, a two-door open alarm, which means that the interlock has been defeated and cross contamination is possible.

(This will also unlock both doors and shut the blower off)

If a door is opened during the cycle you will get a door breach alarm which means that there is a possibility of contaminants entering the clean area. This will also unlock both doors and shut the blower off

Note: Interlock system is used to assure that personnel will not bypass the Air Shower and compromise integrity of work being done in the clean space