# AIR SHOWER

VICFIL SDN. BHD.
DRIVE INNOVATION

## DESCRIPTION

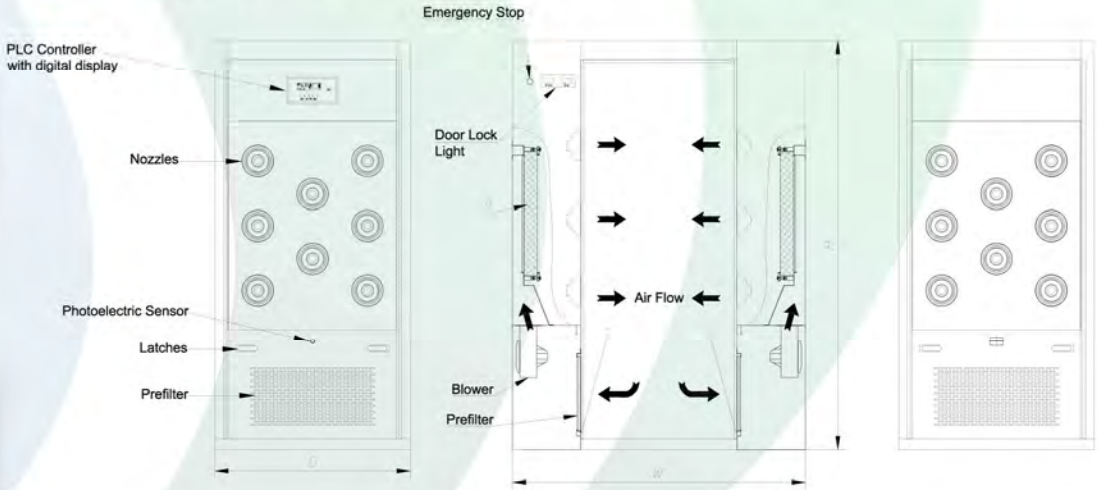
Air shower is specialized enclosed antechambers which are incorporated as entryways of cleanrooms and other controlled environments to reduce particle contamination. Air showers utilize high-pressure, HEPA or ULPA filtered air to remove dust, fibrous lint and other contaminants from personnel or goods surfaces efficiently. The forceful "cleansing" of surfaces prior to entering clean environments reduces the number of airborne particulates introduced.

When properly incorporated into cleanroom design, air showers provide an ISO-classified transition vestibule to ensure the cleanliness of the classified cleanroom . Air shower is typically placed between a gowning area and cleanroom; after production workers don't appropriate garb and personal protective equipment, they enter the air shower so that the pressurized filtered air nozzles remove any residual particles from coveralls. Once the program cycle is complete, users exit out through a second door and enter into the cleanroom. Air shower may also be installed between two cleanrooms of different ISO classifications.

## AIR SHOWER



## AIR SHOWER SCHEMATIC DIAGRAM




## AIR SHOWER SPECIFICATIONS

| Model | VAS-1D-1000 | VAS-1D-2000 |
|---|---|---|
| OD: (W x D x H mm) | 1500 x 1000 x 2100 | 1500 x 2000 x 2100 |
| ID: (W x D x H mm) | 800 x 882 x 1945 | 800 x 1764 x 1945 |
| Air velocity, (m/s) | 15 - 25 | 15 - 25 |
| No. of nozzles | 16 | 32 |
| Air shower cycle, (s) | Default 15s, adjustable from 10 – 99s | |
| No. of blowers | 2 | 2 |
| Material of casing | SS304 1.2mm, Cold Rolled 1.2mm c/w powder coat white and inner SS304 1.2mm. | |
| Material and quantity of door | Aluminium with half glass door, single swing door | |
| Interlock of door | The door is locked and controlled by PLC controller board. | |
| Power supply | 240VAC / 1PH / 50Hz | |
| Power consumption, (kW) | 1.00 | |
| Capacity of person | 1-2 | 2-4 |
| Weight, (kg) | 360 | 500 |