



# AIR SHOWER

CLEAN ROOM EQUIPMENT



Air Shower is a barrier between a cleanroom and a non-restricted area that can effectively remove pollutants and particles.



## AIR CLEAN DEVISER CORP

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## Application

- ⊙ An airborne pollutants barrier between a cleanroom and a dressing area for preventing accidental contamination caused by inappropriate or unexpected door openings.
- ⊙ Effectively remove the pollutants and particles on worker's body and clothes.
- ⊙ Has various sizes and shapes and customization service is available.

## Components of Air Shower



Operating Light Signals



Handle



Filter System  
HEPA  
Pre-filter



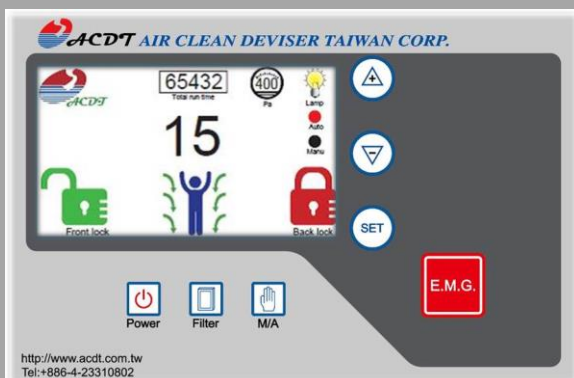
CE Certified  
Meet EU EHS  
protection standard



Door Closer  
Installed from inside



Nozzle  
Stainless Steel  
Direction adjustable



## Microprocessor Control Panel

- Shower mode & breeze mode
- Shower mode countdown timer
- Total running time for the motor
- Front door & back door interlocks status
- Filter replacement alert
- Differential pressure value
- Abnormal differential pressure alert
- Emergency Stop button

## Product Feature

### Material

- ⦿ High-end powder-coated steel plate and stainless steel floor to minimize particle generation

### Microprocessor Control Panel

- ⦿ LCD programmable microprocessor control panel.

### Nozzle

- ⦿ Stainless Steel
- ⦿ Direction adjustable, can cover more angle

### Fluorescent Lamp & Glass Window

- ⦿ Inside Air Shower to provide the best visibility and safety

### Interlocks

- ⦿ To prevent opening the doors too early or in the wrong way
- ⦿ Deactivated when the electricity shut down suddenly

### Operation Mode

- ⦿ Can switch between automatic and manual operation modes

### Unlock Delay

- ⦿ Can set the delay time for the doors to be unlocked after shower mode.

### CE Certified

- ⦿ Meet EU safety, health and environmental protection requirements

### Emergency Stop Button

- ⦿ Override the operating cycle and release the door locks immediately

### Audio System

- ⦿ Audio broadcast during the operating process

### Door Closer

- ⦿ Special designed to be installed from inside the door

### Filter System

- ⦿ HEPA
- ⦿ Pre-filter

### Operating Light Signals

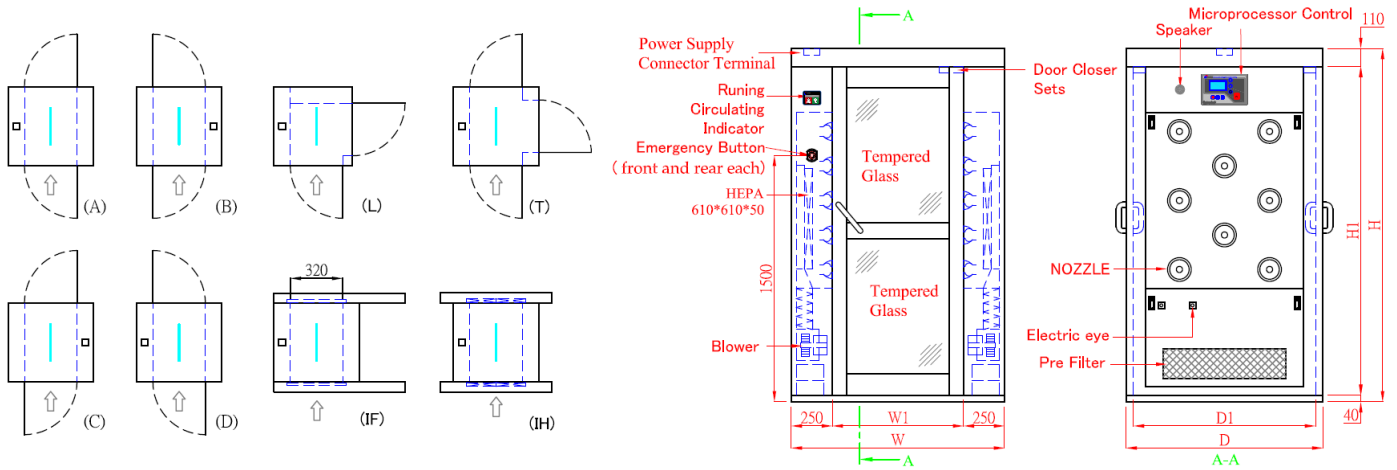
- ⦿ Use green and red lights just like traffic lights, more intuitive to understand
- ⦿ Operating light signals fitted on the front and back doors

### Breeze Mode

- ⦿ After shower mode, the breeze mode will start automatically to clean the Air Shower.











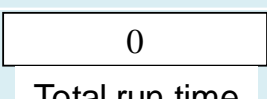
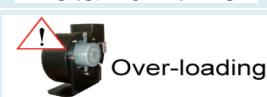
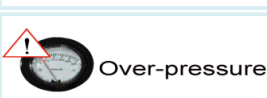
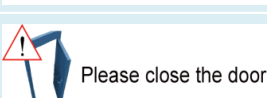
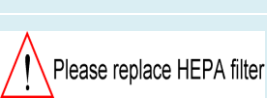
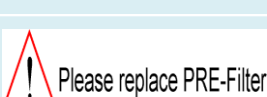
### Power Failure Safety Protection

- ⦿ When a power failure occurs, the door will unlock automatically to protect the workers.



Item		Single-leaf Swing Door (Standard Type)						Tunnel Type	Automatic Sliding Door	
		DA0812S	DA0812	DA0812L	DA0812T	DA0815	DA0820	DA0855	Visible	Concealed
		DA0812S	DA0812	DA0812L	DA0812T	DA0815	DA0820	DA0855	DA0812IH	DA1518IG
External Dimension (mm)	W	1200	1300	1300	1300	1300	1300	1300	1800	2000
	D	1200	1200	1200	1200	1500	2000	5500	1520	1800
	H	2150	2150	2150	2150	2150	2150	2150	2220	2220
Internal Dimension (mm)	W1	800	800	800	800	800	800	800	800	1500
	D1	1100	1100	900	1100	1400	1900	5400	1200	1800
	H1	2000	2000	2000	2000	2000	2000	2000	2000	2000
Body Construction	1.6t powder-coated steel or 1.5t stainless steel									
HEPA	Feature	Aluminum frame, Filtration efficiency 99.99% at 0.3 microns								
	Size (mm)	610×610 1pc	610×610 2pc	610×610 2pc	610×610 1pc	760×610 2pc	610×610 4pc	610×610 8pc	610×610 2pc	760×610 2pc
Pre-filter	Feature	Aluminum frame, 22t non-woven fabric								
	Size (mm)	750×210 1pc	750×210 2pc	750×210 2pc	750×210 1pc	750×210 2pc	750×210 4pc	750×210 8pc	750×210 2pc	750×210 4pc
Air Nozzle	Feature	Stainless steel, adjustable								
	Qty	8	16	12	8	18	24	64	16	18
Air Velocity	Shower mode: above 22 m/s, Breeze mode: 8 m/s									
Blower (Qty)	2P	0	1	1	0	1	2	4	1	1
	2P/4P	1	1	1	1	1	2	4	1	1
Lighting (Qty)	1									
Door	45mm thickness, anode aluminum alloy frame with 5mm tempered transparent glass. The door frame has a 45° inner bevel to prevent dust from accumulating. Air-tight sealant to reduce impact vibration.									
Interlock	Embedded electrical lock							N/A		
Power Consumption (kW)	0.9	1.8	1.8	1.8	1.8	3.6	7.2	2.3	2.3	
Power Supply	AC 3Ø □ 220V □ 380V 50/60Hz									

## Description of Control Panel Indication Symbols

Function	Icon	Description
Shower Mode		Indicate shower mode is activated. A/S starts to remove particles & lints on user's body and clothes.
Breeze Mode		Indicate breeze mode is activated. A/S is self-cleaning after the user left.
Front Door Unlock		Indicate front door is unlocked, can open the door.
Front Door lock		Indicate front door is locked, can not open the door.
Back Door Unlock		Indicate back door is unlocked, can open the door.
Back Door Lock		Indicate back door is locked, can not open the door.
Manual / Auto Mode		Indicate Air Shower is in automatic or manual mode.
LED Light		Indicate the power for fluorescent lamp is activated.
Emergency		Indicate all functions has stopped and can open front and back doors.
Differential Pressure		Indicate the differential pressure value of HEPA Filter.
Total run time		Indicate the total running time of the motor.
Overloading		Indicate the motor is overload.
Over Pressure		Indicate the pressure of HEPA Filter is beyond limit.
Please Close The Door		Indicate the door is not closed, please close the door.
Replace HEPA		Indicate the HEPA Filter needs to be replaced.
Replace Pre-filter		Indicate the Pre-filter needs to be replaced.



▲ Single-leaf Swing Door



▲ Double-leaf Swing Door



▲ With Lifting Table



▲ Visible Single-leaf Automatic Sliding Door



▲ Concealed Double-leaf Automatic Sliding Door



▲ Tunnel Type



▲ Fast Roll-Up Door

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