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AP-SS Shelter Air
Handling Units

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Plug & Play



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Shelter Air Handling Units - Is Vital in the
Protected Area.

AP-SS Shelter Air Handling Units

The basic principle in the ventilation of shelters is to ensure that the air of the shelters is suitable for the minimum living conditions of the people in it during the period they are in the protection environment. A positive pressure of 50 Pa relative to the external environment must be created indoors to prevent radiation, biological and chemical dust and particles from leaking into the shelter. The shelter air should not be heated, cooled or humidified. Shelters should include a normal ventilation system and a protective ventilation system.

► Product Material

Casing of devices of our sanctuary plants are manufactured from natural anodized aluminum profile and plastic corner elements. Thickness of cell panel is 42 mm, outer wall is electrostatic powder coated and inner wall is manufactured from galvanized sheet. Between the walls are filled with rock wool having a density of 70 kg/m³. Depending on customer request, intra-cellular walls are coated with 1,20 mm thick lead plates to provide protection against the harmful effects of x-rays. Having been statically and dynamically balanced, the fans are quiet, efficient double suction leaned-backward sparse-bladed and of radial character. Our standard electric motors are 380V-50Hz. All double walled panels are fixed to the frame by screws. Service and inspection covers as the standard, having an air-handling unit lock with zero gap rigid hinges having compression feature that does not allow air leakage. There is an air handling unit lock, which does not form protrusion in the cell. It is double walled and has a rigid structure in order for the doors not to rub against the casing frames.

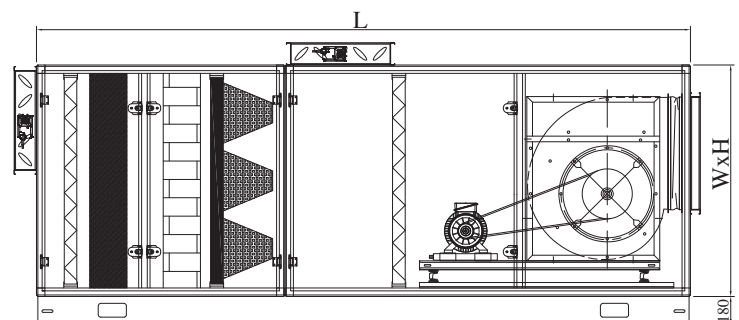
► Product Material

The motor leads were taken into the switch box outside the cell. Under the cells, there are full-length frame feet with 180 mm height made of 2 mm galvanized sheet. There are eyebolts for crane transport and blade slots for forklift transport on the corners of the frame feet.

IT has been designed so that it can vent by passing the air through G4 panel filter, F7 bag filter, the radioactive nuclear filter, the lead separator, and activated carbon filter in cases where the outside air is contaminated with radiation, biological or chemical dusts and particles, and passing the air only through G4 panel filter at normal times.

The emergency and normal time dampers of the sanctuary plant have a servo motor with spring return and on/off control. The position damper is turned on corresponding to the position, on which the device is wanted to be operated, and the other damper switches to off position. This makes sure that the special filters will not be used in normal usage times.

► AP-SS Shelter Air Handling Units Dimensions and Capacities



MODEL	Air Flow (m ³ /h)	External Static Pressure (Pa)	Filter	Motor Power (kW-d/d)	Outside Dimensions (mm)		
					W	H	L
AP-SS-180	1800	400	G4+RF+AKF	1,1 - 3000	750	650	2650
AP-SS-360	3600	400	G4+RF+AKF	2,2 - 3000	750	750	2850
AP-SS-540	5400	400	G4+RF+AKF	3,0 - 3000	1050	750	2900
AP-SS-720	7200	400	G4+RF+AKF	5,5 - 3000	1350	850	2900
AP-SS-810	8100	400	G4+RF+AKF	5,5 - 3000	1050	1050	3200
AP-SS-1080	10800	500	G4+RF+AKF	7,5 - 3000	1350	1050	3200

Cell Order:

G4 Filter+ Radioactive Filter + Activated Carbon Filter + Bypass Cell + G4 Filter + Fan Cell

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