Concealed SystemAir Ventilation and Filtration for Public Shelters

BETH-EL INDUSTRIES HIDDEN

Model Hidden-50





Main Advantages

- Out of Sight Installed overhead above drop ceiling, not occupying usable wall area
- Always Ready No need to remove or mount anything
- Switch-over from ventilation to filtration mode simply by pulling a handle
- Safe All components are above an average person's height
- No exposed ducts
- Manual backup drive is stored within system housing and is drawn out only in event of power failure
- Delivers 600 m³/h fresh air or 300 m³/h filtered air
- Flexible installation options are available according to the room structure



Compliant with Israeli standard

Development - Design - Production - Installation

















System Description

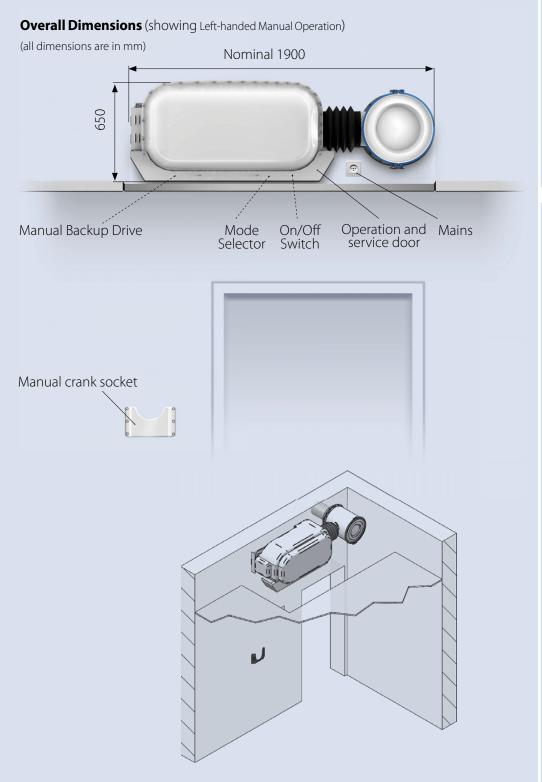
- All system components filter, blower, manual backup drive integrated into one modern housing
- Installable onto the wall directly under physical ceiling or above drop ceiling as high as desired, leaving the **wall area below and the floor free** for normal use
- Readily connected and configured for delivering 600 m³/h fresh air in conventional times by plugging the power cord in and pressing a switch. In this mode the air flow bypasses the filter
- Under CBRN alert, simply pulling a handle engages the filter, automatically switching the system into CBRN-Filtration mode. In this mode it delivers 300 m³/h of purified air for up to 50 people
- A manual backup drive is stored inside the housing behind the service door. In case of power failure it is pulled out and used to operate the blower manually
- For optimal room fit, the system is available in two different directions of mounting and manual operating

CERTIFICATIONS

- Tested and certified by the Standards Institution of Israel and the Israeli Institute for Biological Research
- Approved by the Civil Defence Command
- Quality control according to ISO 9001 and AQAP 2110

Techical Specifications - Model Hidden-50			
Product No.:			B91450AA
A. Air Intake Blast Valve with Prefilter ESVF 803/483 B02647##			
Incident Pressure Durability:		300	kPa
Pressure Drop:	Ventilation Mode (600 m³/h)	160	Pa
	Filtration Mode (300 m³/h)	50	Pa
B. Ventilation and Filtration System Optional Left-handed Manual Operation: B70200AB-01 Optional Right-handed Manual Operation: B70200AC-01			
Weight (incl. housing, filter and blower):		105	kg
Separation Efficiency with Particle Size of 0.3 μm:		99.995	%
Blower Single Phase Electric Motor:	Voltage	230	Volt
	Frequency	50	Hz
	Current	1.9	Ampere
Manual Operation:		2	Persons
C. Overpressure Blast Valve A 810 B10601AA			
Incident Pressure Durability:		300	kPa
Pressure Drop:	Ventilation Mode (600 m³/h)	275	Pa
	Filtration Mode (300 m³/h)	140	Pa





Shelter Design Requirements

Air Intake 8" Wall Sleeve: at least 35 cm below concrete ceiling, but no more than 305 cm from the floor.

When installed above drop ceiling: leave access opening 100 x 220 cm below the system. A hatch or a removable cover may be installed over the opening.



Overpressure Blast Valve A 810

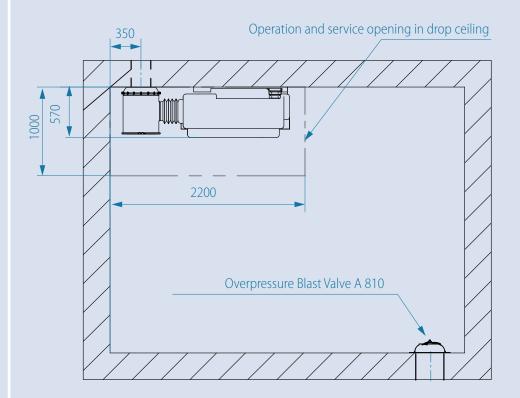


General Dimensions for Installation - Including Above Drop Ceiling

(Showing right-handed manual operation) (all dimensions are in mm)

SYSTEM INSTALLATIONS REQUIREMENTS

 Air Outlet: 8" flange according to BS 4504 – PN 6 or DIN 2501 – PN 6 located preferably at an outside wall, opposite the air inlet





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