# **Concealed System**Air Ventilation and Filtration for Public Shelters



# Model Hidden-100G





#### **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
- Delivers 1200 m³/h fresh air or 600 m³/h filtered air
- Without manual operation. Backup of emergency power generator required



Compliant with Israeli standard

Development - Design - Production - Installation

















#### **System Description**

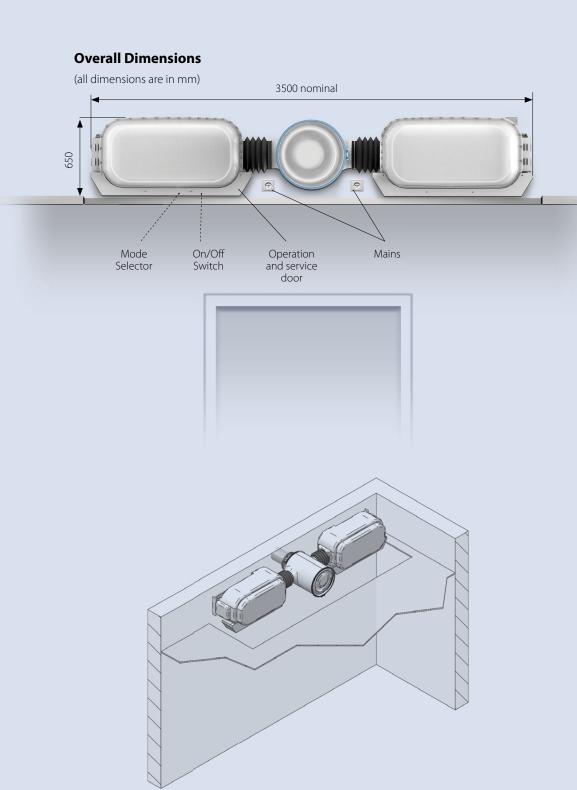
- All system components filter, blower integrated into one modern housing
- Installable onto the wall right under physical ceiling or above drop ceiling as high as desired, leaving the **wall area below and the floor free** for normal uses
- Readily connected and configured for delivering 1200 m<sup>3</sup>/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 600 m<sup>3</sup>/h of purified air for up to 100 people
- There is no manual backup drive in this system. A backup of an emergency power generator is required In case of power failure

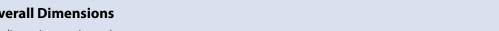
#### **CERTIFICATIONS**

- 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-100 G			
Product No: B90600AA			
A. Air Intake Blast Valve with Prefilter ESVF 1203			B02670##
Incident Pressure Durability:		300	kPa
Pressure Drop:	Ventilation Mode (1200 m³/h)	170	Pa
	Filtration Mode (600 m³/h)	50	Pa
R Vantilation and Elitration System (2) limits)			B70203AB B70203AC
Weight (incl. housing, filter and blower):		100	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
C. Overpressure Blast Valve A 810 (2 units)  B10601AA			B10601AA
Incident Pressure Durability:		300	kPa
Pressure Drop:	Ventilation Mode (600 m³/h)	275	Pa
	Filtration Mode (300 m³/h)	140	Pa









Overpressure Blast Valve A 810

## **Shelter Design Requirements**

Air Intake 8" Wall Sleeve: at least 35 cm below concrete ceiling.

When installed above drop ceiling: leave access opening 100 x 380 cm below the system. A hatch or a removable cover may be installed over the opening.





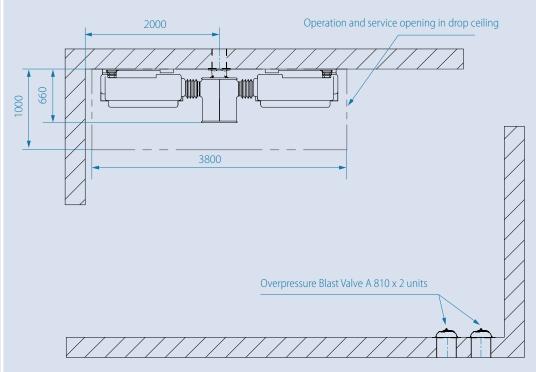
# SYSTEM INSTALLATIONS

**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

### **General Dimensions for Installation - Including Above Drop Ceiling**

(all dimensions are in mm)





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