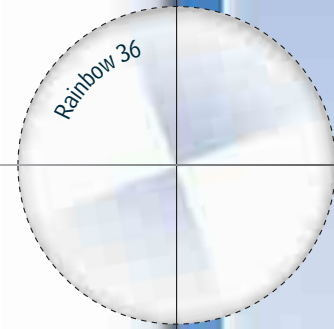




... and life goes on !



## Portable NBC Filtration System Rainbow 36

Certified to compliance with the  
Israeli Standard 4570 by the  
**ISRAELI STANDARDS INSTITUTION** and  
the **ISRAELI CIVIL DEFENCE COMMAND**

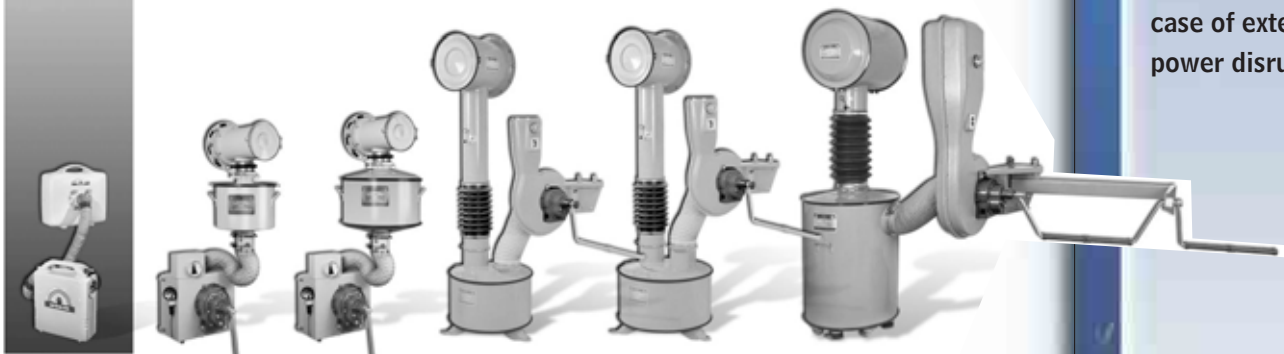
### Highlights

**NBC-Protection for  
6 Persons**  
(In a Standard Protected  
Room according to  
Israeli requirements)

**Quick and  
easy assembly  
and dismantling  
without tools-  
system.**

**Will be installed  
in times of  
emergency only.**

**Battery back-up for  
additional 10 hours  
of operation, in  
case of external  
power disruption**



Rainbow 36

FAH 100/50

FAH 180/90

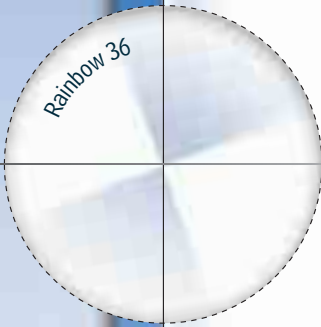
FAH 480/180

FAH 800/300

FAH 1600/600



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**Certifications:**

- Tested and certified by the Standards Institution of Israel and the Israeli Institute for Biological Research
- Approved by the Civil Defence Command
- CE - Hallmarks for Electrical Safety and EMI compliance
- Quality Control according to ISO 9001 and AQAP 120



**System features:**

Rainbow 36 is a very cost effective and reliable system designed to protect against all kinds of NBC-warfare, when installed in a Protected Room with a max. volume of 36 m<sup>3</sup>. This system is capable of giving an adequate supply of filtered air for up to 6 persons (according to Israeli Standard).

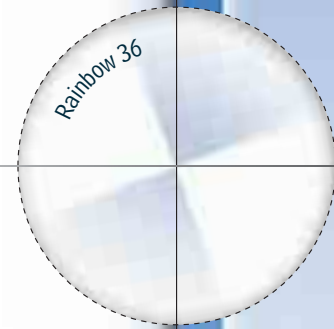
The system creates an overpressure inside the protected room, thus effectively preventing the penetration of gases outside and relieves the occupants from wearing gas masks and protective clothing, enabling a safe, free and comfortable stay.

The Inlet- and Exhaust-valves protect the compartment interior from blast waves and their adverse effects. The Air-Flow indicator (pinwheel) serves as another important factor of operational safety, as it indicates by rotating when the correct overpressure is reached inside the Protected Room.

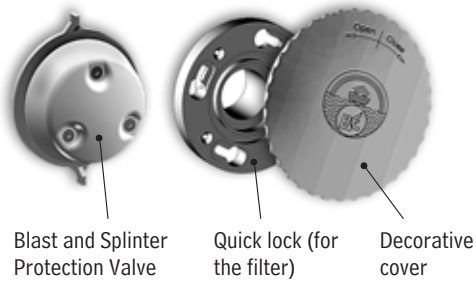
The System operates from a Standard AC power source (outlet), with an integrated battery back-up in case of power failure. The battery will run the system for up to 10 hours, recharging as soon as the system is reconnected to a live AC power source. The second back-up is a Manual Blower, that can be used alternatively or in cases of an empty battery.

<b>A Air Inlet Valve (Blast Valve E 36):</b>		
Air flow rate:	36 (21)	m <sup>3</sup> /h (cfm)
Pressure drop @ 36 m <sup>3</sup> /h:	50 (0.2)	Pa (inch WC)
Infalling pressure durability:	300 (42)	kPa (psi)
<b>B NBC-Filter Unit HF 36:</b>		
Air flow rate:	36 (21)	m <sup>3</sup> /h (cfm)
Pressure drop @ 36 m <sup>3</sup> /h:	240 (0.95)	Pa (inch WC)
Weight of active carbon:	3.8 (8.4)	kg (lbs)
Total weight:	7.3 (16.1)	kg (lbs)
Separation efficiency with Aerosol-Filter against particles of 0.3 micron:	99,995	%
<b>C Ventilation Unit LB 36:</b>		
Air flow rate:	36 (21)	m <sup>3</sup> /h (cfm)
Static Pressure @ 36 m <sup>3</sup> /h:	520 (2)	Pa (inch WC)
Connection with electr. supply		
Voltage (Single phase):	230 (115)	Volt AC (US version)
Current:	0.2 (0.45)	Ampere (US version)
Noise level:	68	dB(A)
<b>D Manual Blower LH 36:</b>		
Air flow rate:	36 (21)	m <sup>3</sup> /h (cfm)
Overpressure @ 36 m <sup>3</sup> /h:	500 (2.0)	Pa (inch WC)
Power consumption:	10	Watt
<b>E Air Exhaust Valve including visual Air flow Indicator A 36:</b>		
Air flow rate:	36 (21)	m <sup>3</sup> /h (cfm)
Overpressure @ 36 m <sup>3</sup> /h:	130 (0.51)	Pa (inch WC)
Infalling pressure durability:	300	kPa

Specifications are subject to change without prior notice



**A. Air inlet unit**

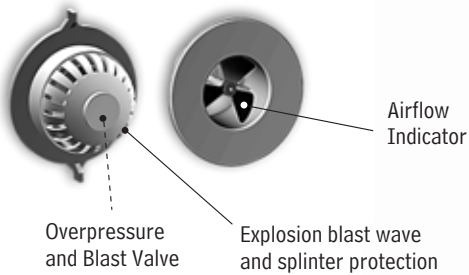


Blast and Splinter Protection Valve

Quick lock (for the filter)

Decorative cover

**E. Air outlet unit**



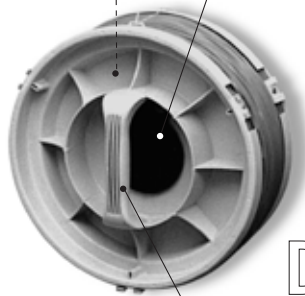
Overpressure and Blast Valve

Explosion blast wave and splinter protection

Airflow Indicator

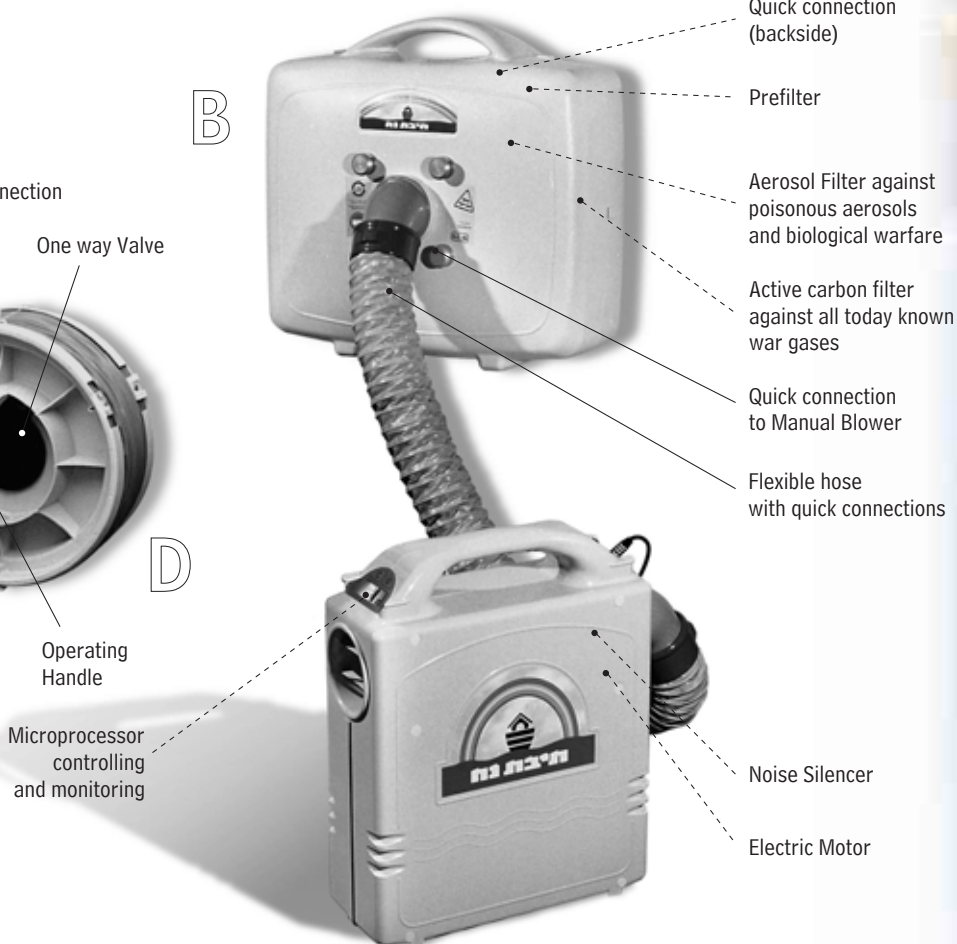
**B**

Quick Connection  
One way Valve



**D**

Operating Handle  
Microprocessor controlling and monitoring



Quick connection (backside)

Prefilter

Aerosol Filter against poisonous aerosols and biological warfare

Active carbon filter against all today known war gases

Quick connection to Manual Blower

Flexible hose with quick connections

Noise Silencer

Electric Motor

**C**

**Microprocessor control unit**  
(with visible/audible alarms)

- LCD display - battery condition
- Fault/overload indication

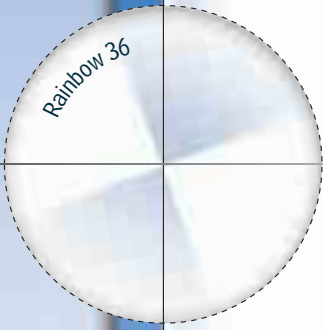


**SYSTEM FEATURES**

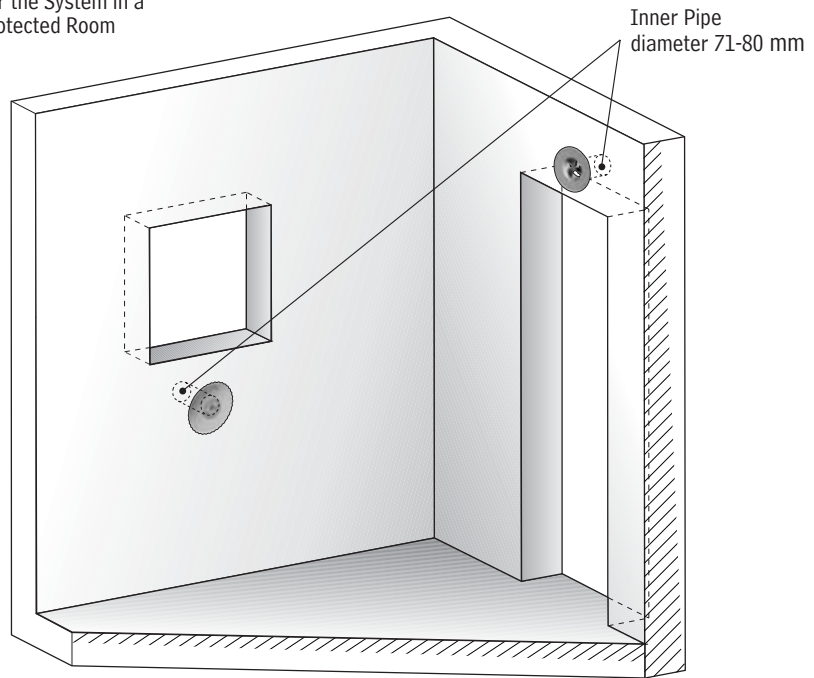
- Additional performance capabilities for use in subtropical and tropical environment
- High blast protection according to the experiences of the Gulf War
- Manual backup in case of external power disruption



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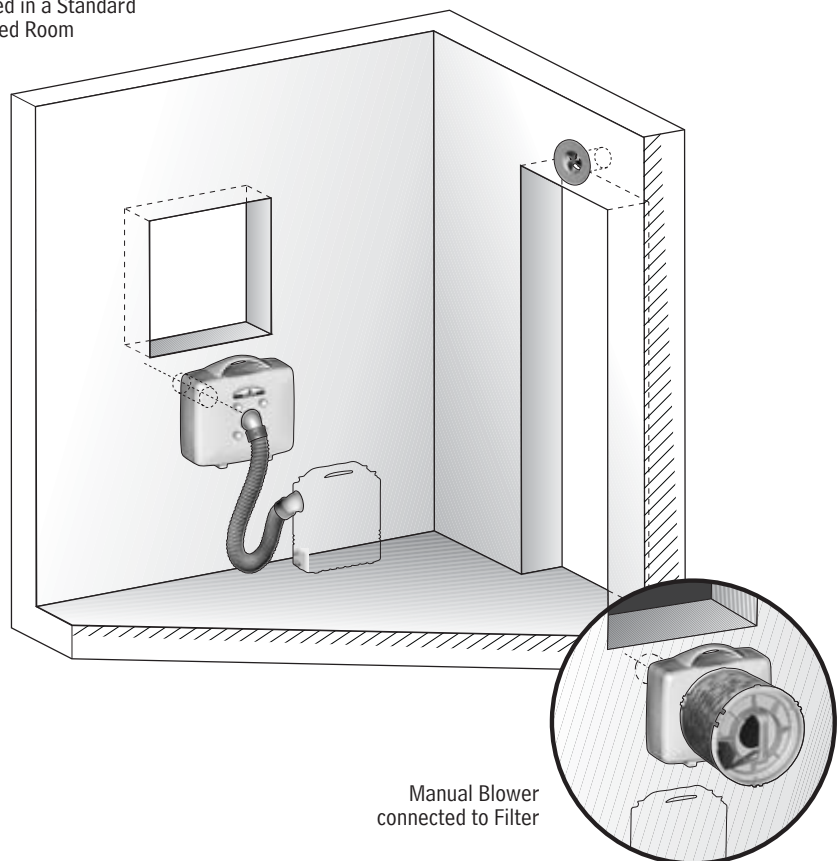
Preparations for the System in a Standard Protected Room



**Installation Requirements:**

1. Standard air tight shelter/ compartment
2. Air inlet:  
Drilling hole  
Ø 80 mm  
(3.1 inches)  
preferably located  
under the windows  
frame
3. Air outlet:  
Drilling hole  
Ø 80 mm  
(3.1 inches)  
preferably located  
above the door  
frame

System installed in a Standard Protected Room



Manual Blower connected to Filter

Specifications are subject to change without prior notice

