

NBC-Filtration System

Type FA 1800/900



Certified in Compliance with the:
Israeli Standard 4570, by the **ISRAEL STANDARDS INSTITUTION**
and the **ISRAELI CIVIL DEFENCE COMMAND**

FEATURES:

- NBC protection for 150 people (according to the Israeli standard)
- Applications in large collective shelters such as within hospitals, hotels, and office buildings, etc.

Development - Design - Production - Installation



CBRN-Filtration & Ventilation Systems



Certified Quality Assurance Program According to **AQAP-2110**





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 2110

Description of the Type FA 1800/900:

The ventilation and NBC-Filtration system **Type FA 1800/900** is a collective filtration system intended for the protection of up to 150 persons in airtight shelters and compartments.

The system provides 1800 m³/h (1059 cfm) fresh air in the case of conventional warfare, or 900 m³/h (530 cfm) filtered air in the case of NBC (Nuclear/Biological/Chemical) warfare.

The system creates overpressure inside the protected area providing a safe and comfortable environment without the need for gas masks or protective clothing. The system is operated by normal electric power.

Technical specifications of the FA 1800/900:

Product number		B90505AA	
A) Blast valve with prefilter ESVF 1803		B02721	
Pressure durability:		300 (43.5)	kPa (psi)
Pressure drop:	(@ 1800 m ³ /h) ventilation mode: (@ 900 m ³ /h) filtration mode:	440 (1.76) 120 (0.48)	Pa (inch WC) Pa (inch WC)
B) NBC- filter HF 900 E:		B35500-02	
Airflow rate:		900 (530)	m ³ /h (cfm)
Pressure drop:		1000 (4)	Pa (inch WC)
Total weight:		180 (396)	kg (lbs)
Separation efficiency with particle size of 0.3 micron:		≥99.995	%
C) Blower L 2400/900:		B20788AC	
Airflow:	Ventilation mode: Filtration mode:	1800 (1059) 900 (530)	m ³ /h (cfm) m ³ /h (cfm)
Air pressure:	Ventilation mode: Filtration mode:	2100 (8.4) 2400 (9.6)	Pa (inch WC) Pa (inch WC)
Electric motor:	Voltage (3 phase): Current:	400 4.1	Volt Ampere
D) Overpressure Blast Valve A 803 (x 3):		B10600	
Pressure durability:		300 (43.5)	kPa (psi)
Pressure drop:	Ventilation mode: Filtration mode:	260 (1.04) 180 (0.7)	Pa (inch WC) Pa (inch WC)

Specifications are subject to change without prior notice.

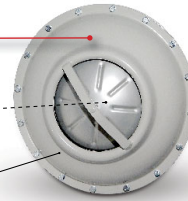


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D) Overpressure Blast Valve A 803
(3 units for air release)

Splinter Shield against Shrapnel

Overpressure Blast Valve



A) Blast Valve with Prefilter ESVF 1803

Prefilter

Protection valve against blast waves and under-pressure

Throttle for airflow adjustment

Chemical resistant flexible hose

Air vent for differential pressure release

Quick connector

Active carbon filter against all Known war gases

Aerosol filter against aerosols radioactive fallout, and biological weapons

B) NBC- filter HF 900 E

Quick connector for fast changeover from conventional to NBC operation

Sterionizer electronic air ionizer

Silencer

C) Blower L 2400/900

Airflow meter

Electric motor

Flexible hose

SYSTEM FEATURES:

- Additional performance capabilities for use in subtropical and tropical environments
- High blast protection developed from the Gulf War experiences





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Approximate Dimensions:

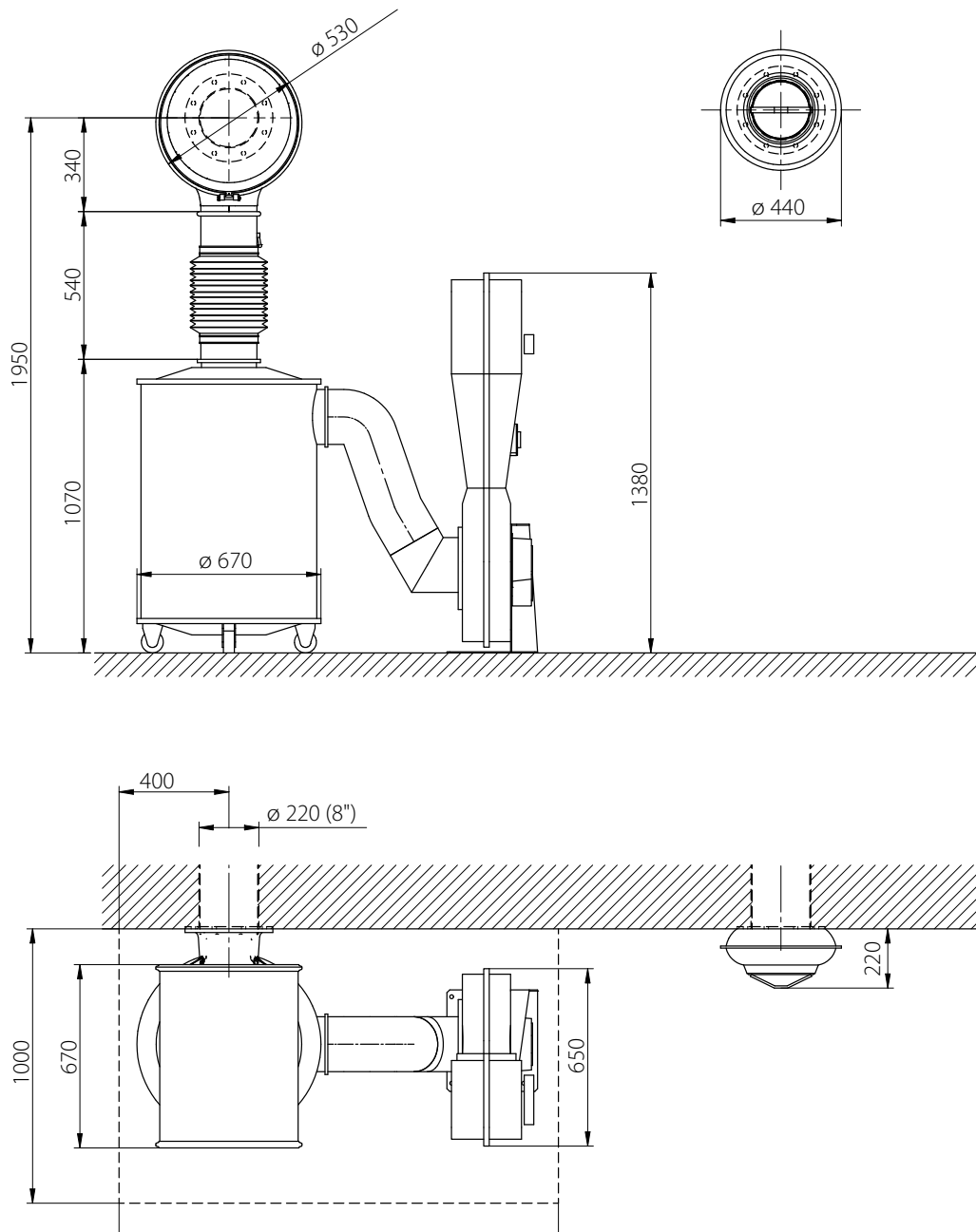
all dimensions are in mm

INSTALLATION REQUIREMENTS:

- Standard airtight shelter/ compartment
- Air Inlet: 8" flange according to BS 4504 – PN 6 or DIN 2501 – PN 6 in an outer wall

Centre line:
1.90 – 2.10 m
(75 – 85 Inches)
above the floor

- Air Outlet: Three 8" flange according to BS 4504 – PN 6 or DIN 2501 – PN 6 located preferably opposite the air inlet



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Beth-El Zikhron Yaaqov Industries Ltd.

1 Avshalom Road
Zikhron Yaaqov, Israel
Tel: + 972-4-629 9999
www.beind.com