

NBC-Filtration System

Type FA 2400/1200



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

FEATURES:

- NBC protection for 200 people (according to the Israeli standard)
- Applications in large collective shelters such as within hospitals, hotels, and office buildings, etc.

Development - Design - Production - Installation



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 2400/1200:

The ventilation and NBC-Filtration system **Type FA 2400/1200** is a collective filtration system intended for the protection of up to 200 persons in airtight shelters and compartments.

The system provides 2400 m³/h (1412 cfm) fresh air in the case of conventional warfare, or 1200 m³/h (706 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 2400/1200:

| | | | |
|---|--|--------------|-------------------------|
| Product number | | B90520 | |
| A) Blast valve with prefilter ESVF 2403 | | B02800 | |
| Pressure durability: | | 300 (43.5) | kPa (psi) |
| Pressure drop: | (@ 2400 m ³ /h) ventilation mode: | 650 (2.6) | Pa (inch WC) |
| | (@ 1200 m ³ /h) filtration mode: | 180 (0.7) | Pa (inch WC) |
| B) NBC- filter HF 1200 E | | B30600AA-01 | |
| Airflow rate: | | 1200 (706.3) | m ³ /h (cfm) |
| Pressure drop: | | 1000 (4) | Pa (inch WC) |
| Total weight: | | 246 (542) | kg (lbs) |
| Separation efficiency with particle size of 0.3 micron: | | ≥99.995 | % |
| C) Blower L 2400/900: | | B20788AA | |
| Airflow: | Ventilation mode: | 2400 (1412) | m ³ /h (cfm) |
| | Filtration mode: | 1200 (706) | m ³ /h (cfm) |
| Air pressure: | Ventilation mode: | 1600 (6.4) | Pa (inch WC) |
| | Filtration mode: | 2340 (9.4) | Pa (inch WC) |
| Electric motor: | Voltage (3 phase): | 400 | Volt |
| | Current: | 4.1 | Ampere |
| D) Overpressure Blast Valve A 803 (x 3): | | B10600 | |
| Pressure durability: | | 300 (43.5) | kPa (psi) |
| Pressure drop: | Ventilation mode: | 260 (1.04) | Pa (inch WC) |
| | Filtration mode: | 180 (0.7) | Pa (inch WC) |

Specifications are subject to change without prior notice.

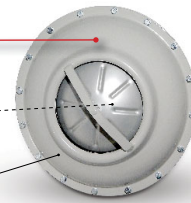


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D) Overpressure Blast Valve A 803
(3 units for air release)

Splinter Shield against Shrapnel

Overpressure Blast Valve



A) Blast Valve with Prefilter ESVF 2403

Protection valve against blast waves and under-pressure

Prefilter

Throttle for airflow adjustment

Chemical resistant flexible hose

Quick connector

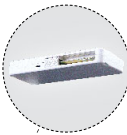
Air vent for differential pressure release

Aerosol filter against aerosols radioactive fallout, and biological weapons

Active carbon filter against all Known war gases

B) NBC- filter HF 1200 E

Quick connector for fast changeover from conventional to NBC operation



Sterionizer electronic air ionizer

Silencer

C) Blower L 2400/900

Airflow meter

Flexible hose

Electric motor

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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NBC-Filtration System Type FA 2400/900

Approximate Dimensions:

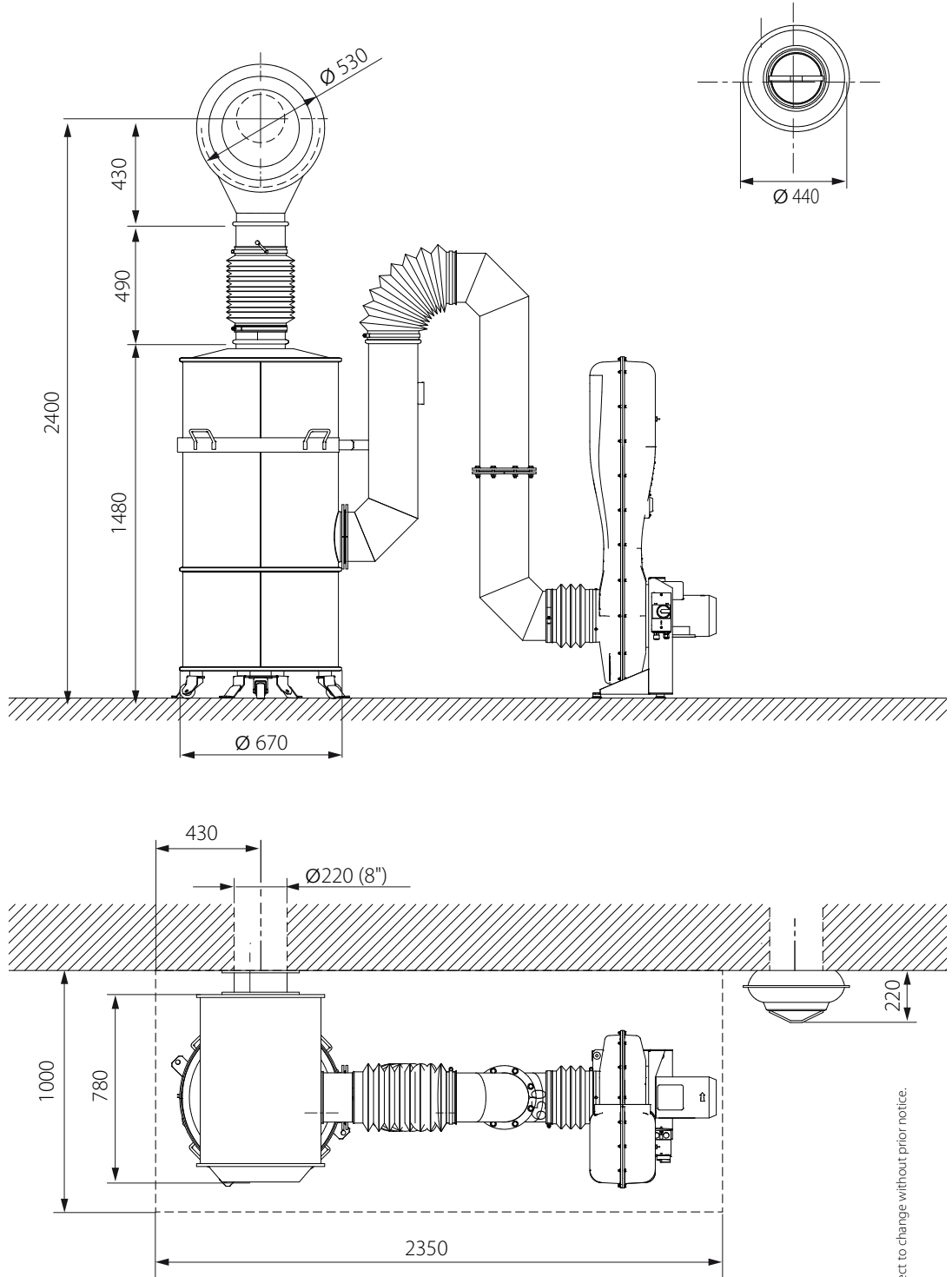
all dimensions are in mm

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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