



# NBC FILTER

## FAT 200M

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Our filter is utilized to protect the personnel and the equipment in the pressurized Armoured Fighting vehicles (AVF) BMP-II against Organic and inorganic vapors. These include persistent nerve, blister agents, non-persistent agents like blood & choking agents, and harmful biological organisms.

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### NIKHTISH ENGINEERING PVT LIMITED

Founded in 2008, is India's leading manufacturer and distributor of CBRNE Filtration Systems, Air Filters & Clean Room Validation Services. We cater to industries, namely, Pharmaceutical, Automotive, Hospitality, Dairy, Food & Beverage, Biotech, Defence, and Nuclear power plants. An equal opportunity employer Nikhtish focuses on consistent innovation & development, especially CBRNE (Chemical, Biological, Radioactive Nuclear & Explosives) air filtration systems, and filters while ensuring quality. The manufacturing facility has been ISO 9001 compliant since 2012, and the products are tested by Standards Institute of Israel continuously in their state-of-the-art facility around the year as part of quality assurance.

## Filter Features

- Each filter is manufactured and tested as per DRDE Specification no. **DRDE/0287/90-91/FAT-200M/SPEC-1 Rev-2 (Nov 2017)**.
- NBC filter is used in conjunction with air ventilating unit of Armored Fighting Vehicle (AFV).
- Cylindrical high efficiency filter assembled over the central piece for removal of all aerosols and containing harmful particles, bacteria, viruses and other similar organisms.
- Cylindrical adsorbent bed filled with the specially designed impregnated activated carbon for retention of war gases like Sarin, phosgene, CK, DMMP and various other TICS & TIMS.
- The filter consists of cylindrical housing having a cylindrical particulate filter and carbon adsorbent bed.
- The filter is provided with inlet and outlet connections suitable for mounting on tank.
- Order executed in association with **DRDE, Gwalior & NBC Equipment wing, Aundh Pune.**

## Technical Specifications

<b>Rated Capacity:</b>	<b>200 m<sup>3</sup>/hr.</b>
<b>Pressure Drop (Air flow resistance at 200m<sup>3</sup>/hr):</b>	Not more than 10 cm of WG.
<b>Collection Efficiency (Particulate removal efficiency):</b>	≥99.97% for 0.3 micron.
<b>Protection potential (Adsorption Capacity):</b>	Minimum 240 mg-min/L for CCL4.
<b>Weight:</b>	18 kg.
<b>Dimensions:</b>	Diameter: 305 mm & Height: 355 mm.
<b>Testing in Accordance:</b>	DRDE/0287/90-91/FAT-200M/SPEC-1 Rev-2 (Nov 2017), JSS No. 6810-147:2014, JSS 55555.
<b>Impregnated Carbon:</b>	As per DRDE/0287/NBCD/98/4(B) Rev(Apr2006).
<b>Filter Construction Material:</b>	Mild Steel IS:513 CR.DD
<b>Operating Temperature Range:</b>	Temp - 20°C to +50°C.
<b>Storage Temperature Range:</b>	Temp - 20°C to +85°C.
<b>Humidity Resistance:</b>	95 % RH
<b>Gasket:</b>	Soft Natural Rubber, Neoprene Rubber.
<b>Surface Coating:</b>	Pre-treatment as per IS 1477, Primer coating as per IS 5666 & IS 5660 & Olive green paint conforming to Shade no. 220 IS 5-78.

## Applications



**BATTLE  
TANK**



**ARMY  
SHELTER**



**ARMY  
BUNKER**



**SHIP  
CITADEL**



**NUCLEAR  
POWER PLANT**

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