

# M48A1 FILTER

100 CFM (170 m<sup>3</sup>/h) CBRN Filter Canister



The HDT M48A1 CBRN filter canister is the most versatile and easy-to-use CBRN filter in use by the U.S. military and its allies. The filter's 100 CFM (170 m<sup>3</sup>/h) medium airflow rating and its modularity make it ideal for positive-pressure systems in vehicles, vans, and mobile shelters. Tested, qualified, and field-proven, the M48A1 filter set is currently used in a variety of applications, including the M1 Abrams tank, the M2 Bradley (and variants), the C2V and the CBPS. The M48A1 is the filter used on the M93 filter system for vehicle-mounted command and control shelters such as the S-280.

The M48A1 filter is self-contained, with both the gas and particulate filter elements housed in one canister. This limits exposure to toxic gases and particulates when removing or replacing the filter. The unit weighs only 28.8 lbs (12.9 kg), allowing one person to easily handle the filter.

The M48A1 employs a glass microfiber particulate medium to remove biological agents, chemical agents in aerosol form, and radioactive particulates. It is 99.97% efficient for particles of 0.3 microns. The M48A1 uses ASZM-TEDA activated carbon to absorb toxic warfare agents in vapor or gaseous form.

The filter canister is packed in a hermetically sealed shipping container for transport and long-term storage.

HDT filters are assembled and tested using strict lot controls to ensure product quality. Each production lot is sampled for live agent testing. These controls provide the highest quality chemical and biological protection.

## KEY FEATURES

- 100 CFM (170 m<sup>3</sup>/h) airflow
- Self-contained canister limits exposure when replacing filter
- ASZM-TEDA carbon media
- Horizontal or vertical installation
- Blank test filters and HEPA-filter-only variants available
- Removes biological agents in aerosol form and radioactive particulates, and absorbs toxic warfare agents in vapor or gaseous form
- Exceeds AEP-54 (Edition 2, October 2014) requirements



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Ordering information	
<b>Rated air flow</b>	100 CFM 170 m <sup>3</sup> /h
<b>Airflow resistance</b> (maximum new)	7.0" H2O 1743 Pa
<b>Length</b>	
Overall	14.5" (36.8 cm)
Filter	12.6" (32 cm)
<b>Diameters</b>	
Outside	11.88" (30.2 cm)
Inlet outside	4.02" (10.2 cm)
Outlet outside	4.64" (11.8 cm)
<b>Weight</b>	28.5 lbs (12.1 kg)
<b>Housing material</b>	Aluminum
<b>Gas filter element</b>	
Carbon	
Media	ASZM TEDA per MIL-DTL-32101
Weight	15.5 lbs (7.0 kg)
Carbon density, max	0.68 g/ml*
DMMP CT value	350,000 mg x min / m <sup>3</sup> (minimum - new)
CK CT value	110,000 mg x min / m <sup>3</sup> (minimum - new)
<b>Particulate filter element</b>	
Particulate efficiency	99.97% at 0.3µm
<b>Specifications</b>	EA-DTL-1284 AEP-54 (Edition 2, October 2014)

\* Weight may vary slightly due to carbon density and certain other factors.

Products, product specifications and data are subject to change without notice to improve reliability, function, and/or design. Please contact Customer Service at 800.969.8527 for the most up-to-date product information.

**HDT Expeditionary Systems, Inc.**  
30500 Aurora Road, Suite 100  
Solon, OH 44139 USA  
P 800.969.8527 / 216.HDT.6111  
sales@hdtglobal.com

Ordering information (Cont.)	
<b>NSN</b>	4240-01-363-1311
<b>HDT part number</b>	
Government direct contracts	
Tan	5-19-7435-20
Green	5-19-7435-10
Non-Government and Government indirect contracts	
Tan 3346	5-19-7435-031
Green 34094	5-19-7435-032
Sand 33531	5-19-7435-033
Sand 33303	5-19-7435-034
White 37875	5-19-7435-035
Test / Training filter	5-19-7435-BLANK



NON EXPORT CONTROLLED INFORMATION  
Revision 13 09-23 01-07-05-0075