



ARES FIRE AND
SAFETY SYSTEMS LLC

CBRN DETECTION AND FILTRATION SYSTEMS

CBRN FILTER GENERAL SPECIFICATIONS

Conformant to NATO AEP54 standards

It provides safety of the crew against chemical, biological, nuclear and radiological attacks which are today's war methods.

Special filtration by Hepa and Carbon filters

10 years of packed shelf life

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Usage period of 1 to 12 months for daily uses



The filters produced as per NATO AEP54 standard can filter gases such as sarin, soman which are described as war gases

Air flow rate between 20 m³/h and 300 m³/h

Filtration of coarse particles by fixing front filter


90-180 Minutes of war agent filtration period

Packaging as per MIL - PRF 131 standard


Particle filtration up to 0,3 millimeter





PRE FILTER

 Air Flow Rate
---m³/h

 Air Flow Resistance
0,81 IWG / 800 Pa

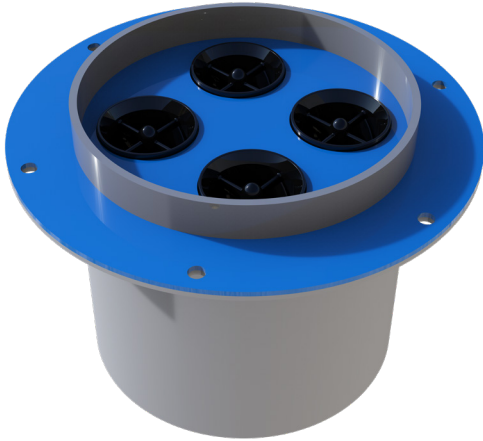
 Local Outturn %
99.97 / 99.97

 Weight
11 lbs / 0,9 kg (±0,1 kg)

 Dimensions (width x length x diameter)
0,37" x 0,54" x 0,69"
9.5 mm x 13.8 mm x 17.6 mm



CYCLONE FILTER

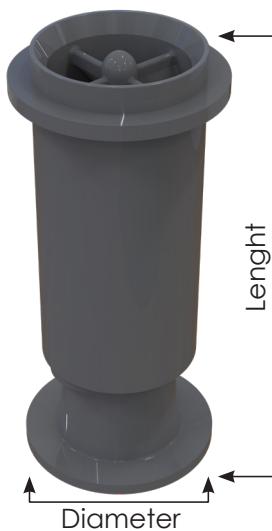


- On CBRN filtration system the dust particles within the drawn air are separated by giving "spin motion" (both circular and vertical motion) to air flow.
- When it is used before the filters, it extends the filter life.
- High capacities can be provided by parallel connection.

Cyclone filter separates the particles from the air by forcing the air with "spin method". The spinning air "pushes" solid particles to outer side of the air flow and provides the particles to fall outside the air flow and settle there. Cyclone collectors are generally used as separator for coarse dust from air flow and often as pre-cleaner before an efficient filter and/or a product separator.

The polluted air getting in from the entrance on upside of the cyclone with high speed, is forwarded to cyclone internal walls with centrifugal force of particles whose density is higher than the conveyer atmosphere, by giving it a helical flow form through cyclone construction.

Cyclones also reduces dust load reaching the filter by operating as first stage dust ejector before the filter on systems where dust load is high. By this means, it becomes possible to used filter unit more efficiently. These filters can be connected in series according to capacity calculations when it is necessary.



Filter Type	Filter Dimensions (diameterxsize)	Usage Type	Efficiency
Small Type	19mm x 66mm 0.75" x 2.6"	Single	92-96%
		Serial	95-99%
Wide Short Type	38mm x 102 mm 1.5" x 4"	Single	88-94%
		Serial	90-96%
Wide Long Type	38mm x 152 mm 1.5" x 6"	Single	92-95%
		Serial	96-98%