AIRTECHNOLOGY / AMETEK®

CBRN Protection Systems

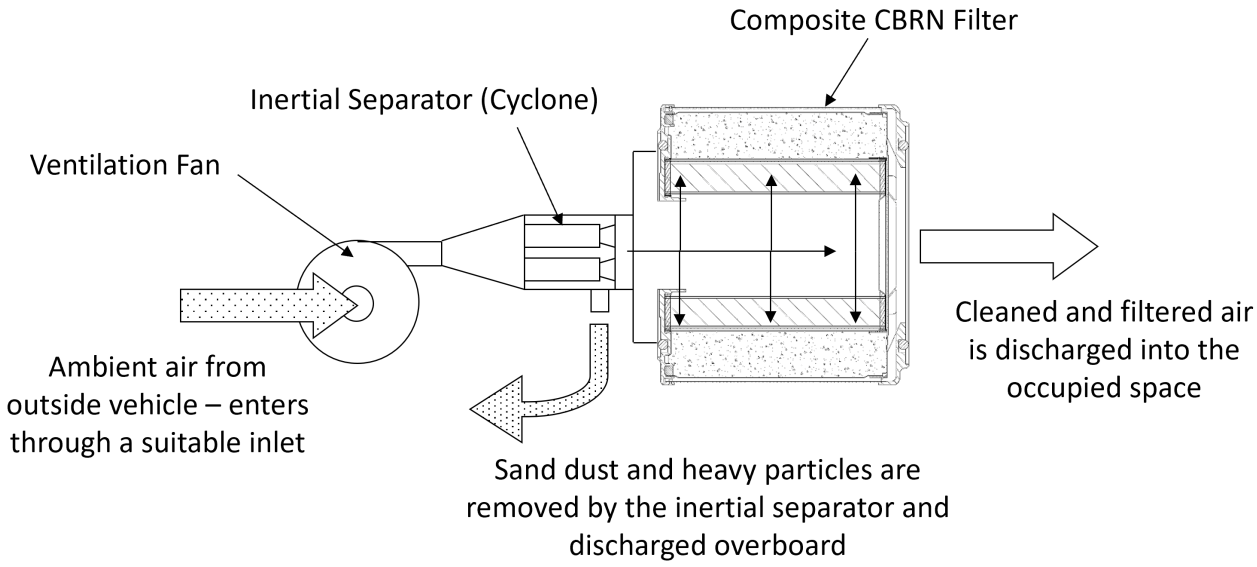


WHEN
EXCEPTIONAL PERFORMANCE
MATTERS

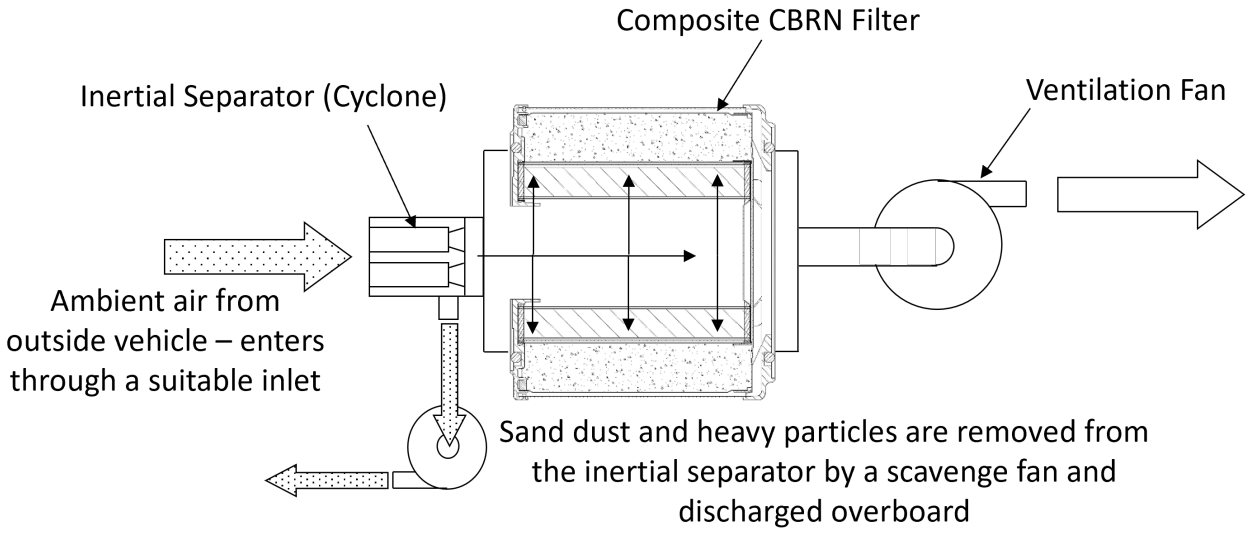
General Overview

As a leading authority in the design and integration of CBRN Filtration systems, AMETEK Airtechnology offers a range of systems suitable for military vehicle applications, using a range of different filter types. Such systems can be stand-alone, or combined with Air Conditioning System, to provide a clean and controlled environment for the occupants.
We can offer both CBRN blow-through systems and CBRN draw-through systems, ensuring versatile and reliable solutions for various applications. These systems are designed to provide a clean and controlled environment, enhancing safety and operational efficiency in challenging conditions.

CBRN Schematics - Blow Through Systems



CBRN Schematics - Draw Through Systems



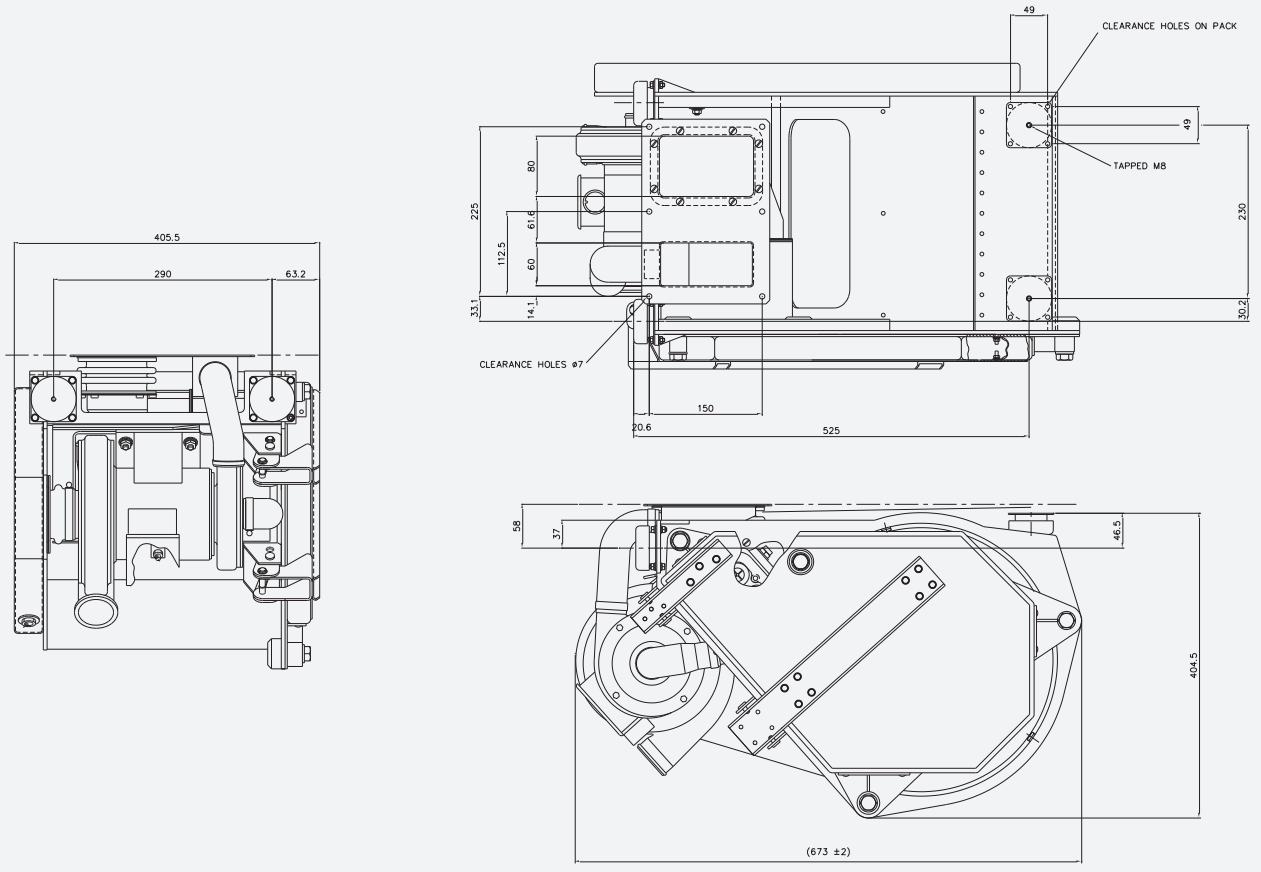
AC143 CBRN System

The AMETEK AC143 CBRN System is a “Draw through” system, designed for vehicles where the only access may be through a roof hatch – although it would work equally as well with a side hatch. The CBRN System is attached to the hatch, such that when the hatch is opened the CBRN pack is lifted out of the vehicle – allowing access for filter changes.
The opening of the hatch would tend to need to be assisted in some manner, to balance the weight of the CBRN System attached to it, however it only needs to open around 30° to gain access for filter changing. The AC143 CBRN System includes an inertial separator, the scavenge air for which is provided by an impeller that shares a common motor drive shaft with the Main Fan impeller. The Main Fan impeller draws the air through the inertial separator and the CBRN Filter prior to discharging it into the vehicle.



AC143	
Airflow	170 m³/h
Available Overpressure	up to 1500 Pa
Input Power	800W
Weight	50kg (Including Composite CBRN Filter)

Outline Drawing



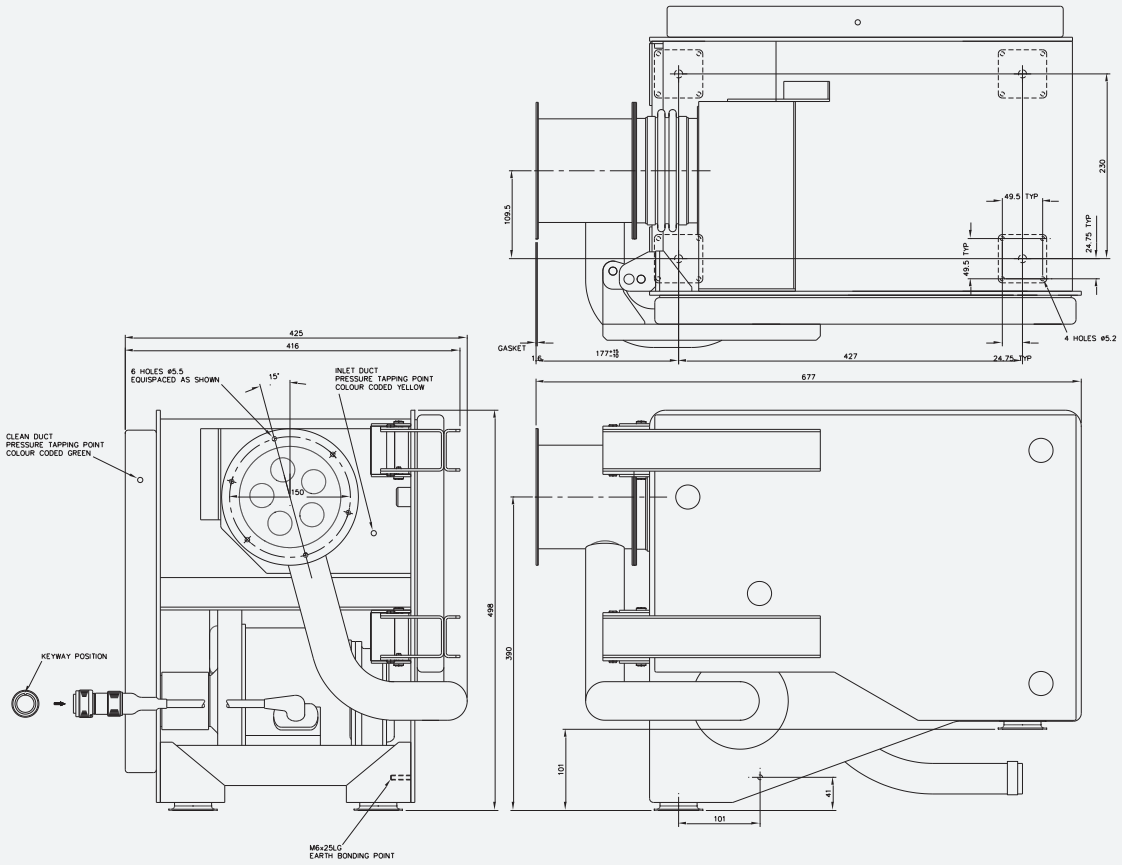
AC151 CBRN System

The AMETEK AC151 CBRN System is a “Draw through” system, designed for a vehicle that provides access to the CBRN System through a hatch in the side of the vehicle hull. The AC151 CBRN System includes an inertial separator and scavenge/main fan assembly, as described for the AC143 CBRN System. This CBRN system uses the AMETEK AC161 variant of the UK No.1 Mk. 4 Composite CBRN Filter, as approved by the UK CBRN Authority at Dstl Porton Down.



AC151	
Airflow	170 m³/h
Available Overpressure	up to 1500 Pa
Input Power	800W
Weight	50kg (Including Composite CBRN Filter)

Outline Drawing



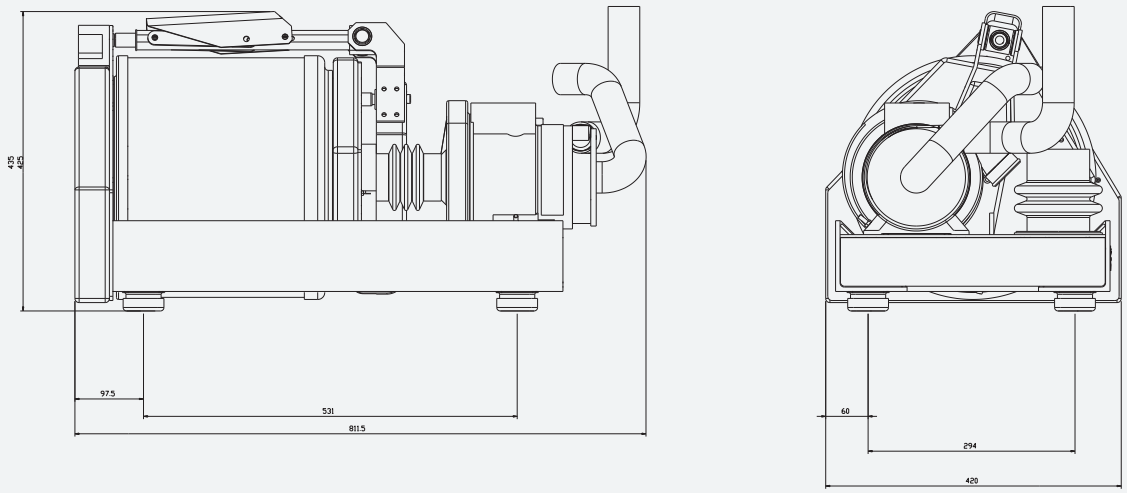
AC154 CBRN System

The AMETEK AC154 CBRN System is a “Draw through” system, with the filter accessible along its length – rather than from the end as with the previous AC143 and AC151 CBRN Systems. This arrangement allows this style of CBRN System to be configured such that the filter can be removed from a hatch in the side or the roof of the vehicle. The AC154 CBRN System includes an inertial separator and scavenge/main fan assembly, as described for the AC151 CBRN System.



AC151	
Airflow	170 m³/h
Available Overpressure	up to 1500 Pa
Input Power	800W
Weight	50kg (Including Composite CBRN Filter)

Outline Drawing



Contact Us

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