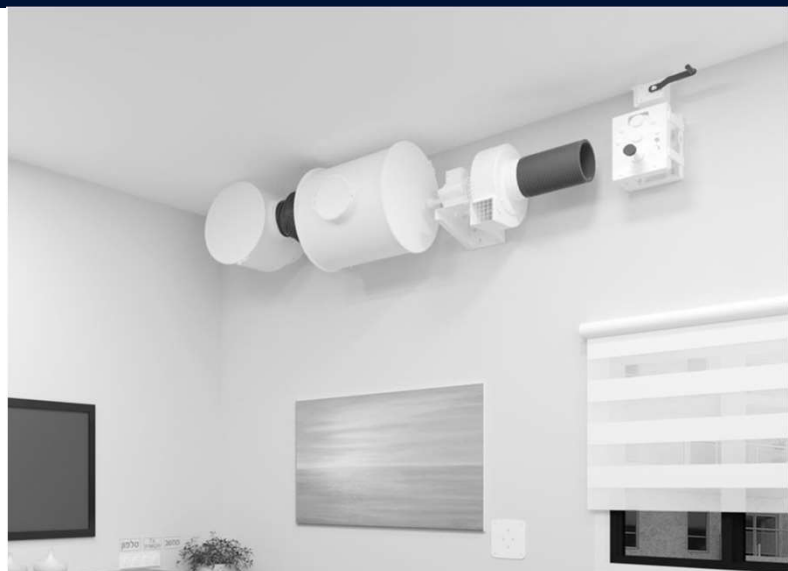
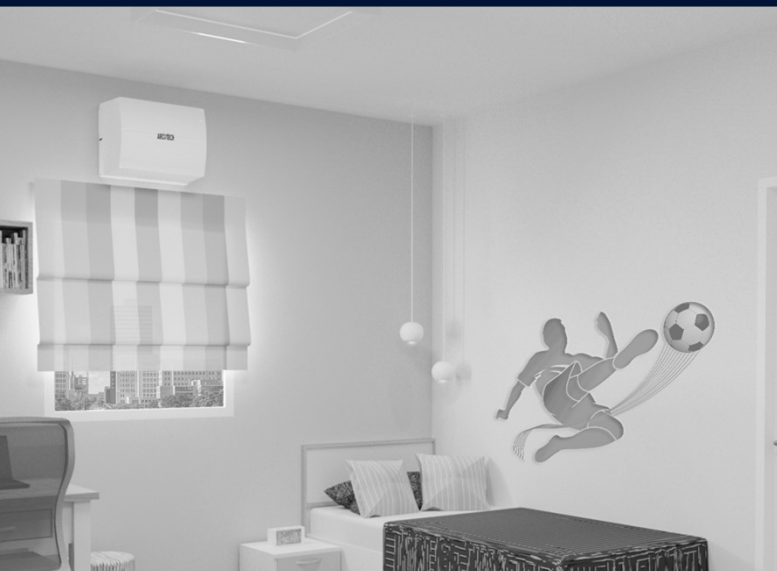




# **CBRN / CO<sub>2</sub> / CO Air Filtration & Ventilation Solutions Catalog**

*for shelters, bunkers and saferooms*

**Atmas** offers a wide selection of ventilation and CBRN (chemical, biological, radiological and nuclear ) / CO<sub>2</sub> air filtration systems for civil defense shelters, bunkers, saferooms, storage facilities and other applications.

FS CATALOG 160224 v.00

## SAFE 360 – CBRN Air Filtration System

*Complete, compact, certified and cost-effective CBRN air filtration and ventilation systems for shelters and safe rooms up to 36 m<sup>3</sup> air volume.*

*\*several systems can be installed in one shelter*



All the components placed under the decorative cover (25x35x46 cm) on the wall



## Main Advantages

- Complete, compact and cost-effective system
- Certified and approved by government and civil defence organizations
- Installed in tens of thousands of shelters around the world
- Simple to operate and to switch from ventilation to NBC modes. No tools required.
- Equipped with manual backup option for operation in case of electricity blackout or can be connected to 12V battery



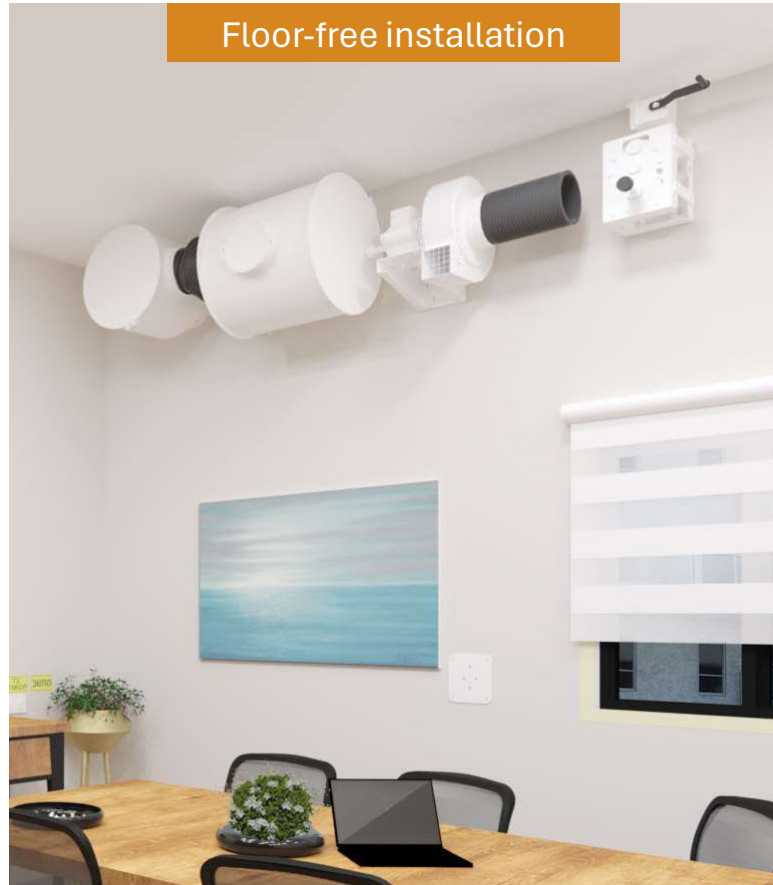
## ARC 100-600 – CBRN Air Filtration Systems

*CBRN air filtration and ventilation systems for floor / floor-free Installation and manual backup for shelters and bunkers up to 600 m3 air volume.*

Floor installation



Floor-free installation



### Main Features

- Certified and approved by government and civil defence organizations
- Floor / floor-free installation
- Operation: single phase 230V / 115V / manual backup
- Components: blast valve, prefilter, electric blower, CBRN filter, manual backup, overpressure valve, air hoses

| System  | Airflow Filtration / Ventilation (m3/h) | Max. Shelter Volume (m3) |
|---------|-----------------------------------------|--------------------------|
| ARC 100 | 100 / 200                               | 100                      |
| ARC 180 | 180 / 360                               | 180                      |
| ARC 240 | 240 / 480                               | 240                      |
| ARC 300 | 300 / 600                               | 300                      |
| ARC 450 | 450 / 900                               | 450                      |
| ARC 600 | 600 / 1200                              | 600                      |





## ARC 900-1800 – CBRN Air Filtration Systems

*CBRN air filtration and ventilation systems for large shelters and bunkers up to 1800 m3 air volume.*



### Main Features

- Certified and approved by government and civil defence organizations
- Floor / floor-free installation
- Operation: single phase 400-415V
- Components: blast valve, prefilter, electric blower, CBRN filter, overpressure valve/s, air hoses

| System   | Airflow Filtration / Ventilation (m3/h) | Shelter Volume (m3) |
|----------|-----------------------------------------|---------------------|
| ARC 900  | 900 / 1800                              | 900                 |
| ARC 1200 | 1200 / 2400                             | 1200                |
| ARC 1800 | 1800 / 3600                             | 1800                |



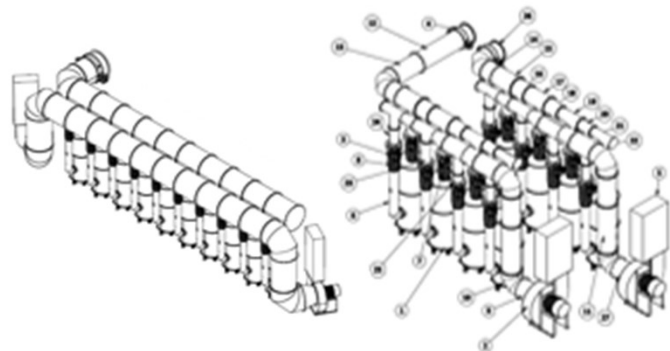
## Filter Banks – CBRN Air Filtration Systems

*Custom designed, modular, CBRN air filtration and ventilation systems for very large shelters and bunkers up to 1800 m<sup>3</sup> air volume.*



### Main Features

- Configuration: Design according to project requirements with considerations of space, airflow, standards applied, control system, etc.)
- Components: according to configuration, blowers, blast valves, filters (line can include up to 10 connected 600, 900, 1200, or 1800 m<sup>3</sup>/h filters), overpressure valves, hoses, and more.



## CO<sub>2</sub> / CO Removal Systems - Scrubbers

*CO<sub>2</sub> removal systems (air regeneration) required for shelters and chambers that have an option of isolation from external environment to maintain safe levels of Carbon Dioxide (CO<sub>2</sub>).*



### Main Features

- Operation: Electrical / battery (optional)
- Optional Equipment: The systems usually completed with Air / Oxygen (O<sub>2</sub>) supply system, gas detection and monitoring systems and more.





# CBRN, CO<sub>2</sub>, CO & Special Carbon Filters

*A wide range of filters for standard and special applications*

Modern CBRN / CO<sub>2</sub> filters  
certified to various standards



CO<sub>2</sub> / CO filters



Eastern Europe type  
CBRN / CO<sub>2</sub> filters



## Main Features

- Standard filters: AFU 36 / 100 / 180 / 240 / 300 / 450 / 600 / 900 / 1200 / 1800  
\* the number indicates nominal airflow in m<sup>3</sup>/h.
- Special and Eastern Europe type filters: we can offer special design of various types of filters to fit different European and other standards.
- Filtration efficiency:
  - Mechanical Filtration: H14 (≥99.995%)
  - Activated carbon: SI4570 standard or customized
- Installation options: vertical / horizontal (some models)

## Blast Valves / Overpressure Valves

*A wide range of ventilation openings blast protection valves, overpressure and differential pressure valves for shelters and special applications*



### Main Features

- Blast valves: airflow range of 36-3600 m<sup>3</sup>/h per valve
- Blast overpressure valves airflow range: 36-3600 m<sup>3</sup>/h per valve
- Optional: casing for 90 degree or inline connection to air ducts
- Optional: prefilter addition for blast valves BVNO series
- Installation options: wall mounting on a flange or in special casted frames





## High / Low Pressure Ventilation Blowers

*A wide range of blowers for shelters, industry and special applications*

Centrifugal blower with  
manual backup



Centrifugal blower  
with silencer



Centrifugal blower for  
various applications



### Main Features

- Selection: a broad Selection of high-pressure blowers for ventilation and air filtration systems
- Airflow range: from 100-5400 m<sup>3</sup>/h
- Operation: electric / manual operation (optional in some models)
- Safety: Designed and tested for safe operation after ground shock





**Contact us for any questions or enquiries**

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**ATMAS**

**Experts in Shelters and  
Protective Technologies**

**ARCONIK**  
Engineering a Safer Environment

Atmas Group Oy is a Global Commercial Partner of  
Arconik and Exclusively offers its Systems Worldwide

### Disclaimer

This document is not a recommendation or a substitute for dedicated professional advice. The images are for illustration purposes only and all technical, functional and other product specifications are subject to change without notice or obligation.