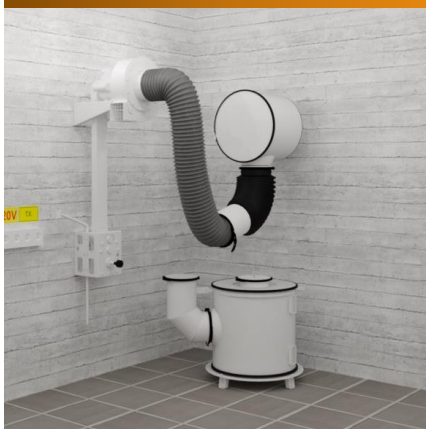




## OUR SOLUTIONS

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

### CBRN Air Filtration and Ventilation Systems



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



### Complete Air Supply Systems and Components





Safe Room / Shelter

## SAFE 360

Professional air filtration and ventilation system designed for supplying fresh air, filtered from harmful gases and particles and creation overpressure in air-tight shelters, bunkers, safe rooms and more.

### Highlights

- Tested and certified
- Compact and Cost-effective
- For shelters up to 36 m<sup>3</sup>/h air volume
- 100-240v/12v/manual operation
- Installed in tens of thousands of shelters



Underground Bunker

SAFE 360 kit



### Compliance

- Standard **SI4570** (Air Ventilation and Filtration Systems for Shelters and Protected Spaces)
- Civil Defence Command



**ARC 100 / 180 / 240 / 300 / 450 / 600**

Advanced, certified air filtration and ventilation system designed for supply of fresh air, filtered from harmful gases and particles and creation of overpressure inside air-tight shelters, bunkers and protected spaces.



Floor installation



Floor-free installation



**Compliance**

- Standard **SI4570** (Air Ventilation and Filtration Systems for Shelters and Protected Spaces)
- Civil Defence Command



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

Components: blast valve, prefilter, electric blower, CBRN filter, manual backup, overpressure valve/s, air hoses and more.

Product design and technical specifications are subject to change without notice or obligation.

## ARC 900 / 1200 / 1800

Advanced, certified air filtration and ventilation system designed for supply of fresh air, filtered from harmful gases and particles and creation of overpressure inside air-tight shelters, bunkers and protected spaces.



### Compliance

- Standard **SI4570** (Air Ventilation and Filtration Systems for Shelters and Protected Spaces)
- Civil Defence Command

System name	Airflow Filtration / Ventilation (m3/h)	Max. Shelter Volume (m3)
<b>ARC 900</b>	900 / 1800	900
<b>ARC 1200</b>	1200 / 2400	1200
<b>ARC 1800</b>	1800 / 3600	1800

Components: blast valve, prefilter, electric blower, CBRN filter, overpressure valve/s, air hoses and more.



Product design and technical specifications are subject to change without notice or obligation.

**FILTER BANKS - LARGE CBRN FILTRATION SYSTEMS**

Large systems specially designed to project requirements (allocated space, airflow, standards applied, control system, etc.). Each system can combine up to 10 filters (600, 900, 1200, or 1800 m<sup>3</sup>/h filters creating up to 18,000 m<sup>3</sup>/h).



Product design and technical specifications are subject to change without notice or obligation.

## CO2/CO REMOVAL SYSTEMS – SCRUBBERS

Such systems required for maintaining safe level of carbon dioxide (CO2) and carbon monoxide (CO) in isolated from external environment shelters, industrial facilities and spaces.

**Automated CO2/CO removal systems - scrubbers for shelters and industrial applications**



**CO2/CO removal systems - scrubbers for large shelters**



Product design and technical specifications are subject to change without notice or obligation.

## CBRN/CO2/CO FILTERS

Standard and custom designed CBRN, CO2 and CO filters for air filtration systems and air handling units (AHU).

**CBRN filters (SI4579 standard): AFU 36 / 100 / 180 / 240 / 300 / 450 / 600 / 900 / 1200 / 1800**

\*the number indicates nominal airflow in m3/h.



**CBRN / CO2 / CO special filters, can be special design of various types of filters to fit different European and other standards.**

Product design and technical specifications are subject to change without notice or obligation.

## VALVES – BLAST / OVERPRESSURE / GASTIGHT

**Blast valves (BVNO)**– normally open valves which installed on ventilation openings or integrated into ventilation ducts to protect the system and internal space of shelters or facilities from sudden rise of pressure result of the blast.

**Overpressure valves (BVNC)** – normally closed valves which installed in airtight shelters to maintain overpressure levels by releasing the air.

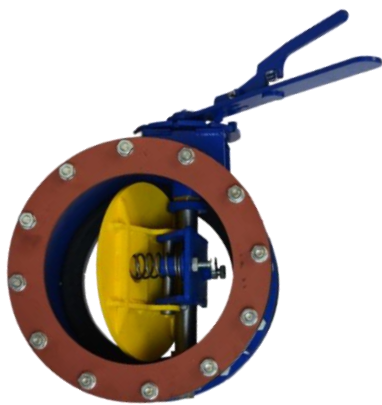


Blast & overpressure valves



Blast dampers

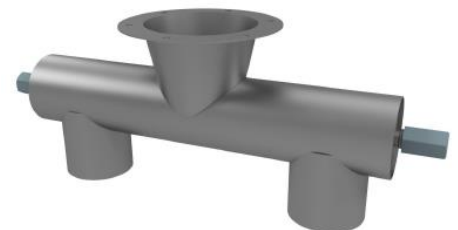
**Gastight valves (GTV)** – valves with manual or electric drive are intended for installation on ventilation duct for blocking the airflow.



Gastight valves – manual operation



Gastight valves – electric / manual operation



3-way gastight valves

Product design and technical specifications are subject to change without notice or obligation.



## HIGH / LOW PRESSURE BLOWERS

We offer various types and sizes of blowers for air filtration and ventilation systems with electric and manual operation function.

Shelter high pressure electric blower with silencer



Shelter high pressure electric blower with manual backup



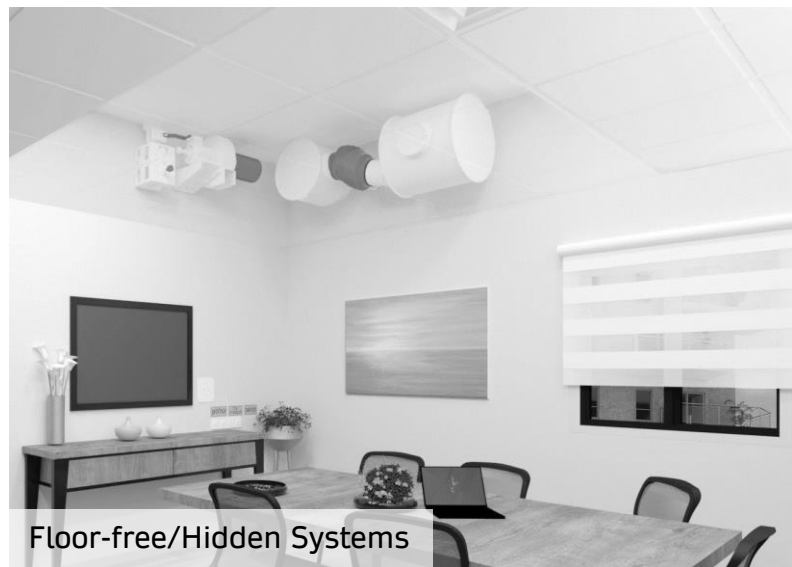
Shelter low pressure ventilation electric blower with manual backup

Product design and technical specifications are subject to change without notice or obligation.

# OUR RANGE OF CBRN FILTRATION SYSTEMS



Safe Room Systems



Floor-free/Hidden Systems



Floor-mounted Systems



Filtering Batteries

# ATMAS

Experts in Shelters and  
Protective Technologies



Atmas Group Oy

Sturenkatu 26,

00510 Helsinki, Finland

Tel: +358 44 9843373

Email: [info@atmas-tech.com](mailto:info@atmas-tech.com)

Web: [www.atmas-tech.com](http://www.atmas-tech.com)

**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.