

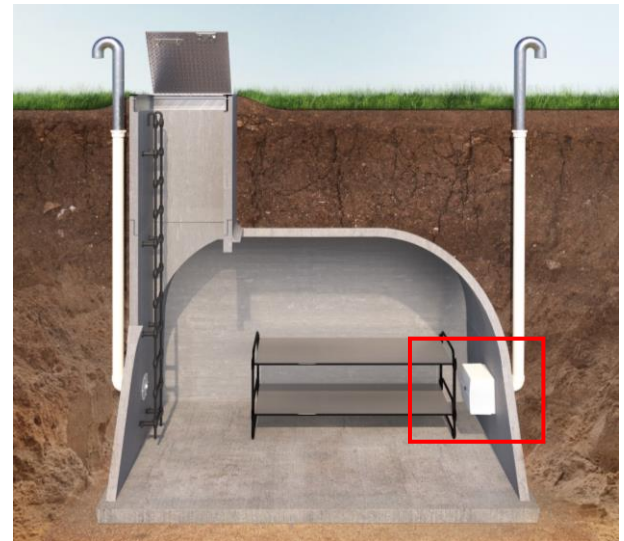


CBRN/CO2/CO Air Filtration and Management Systems

Atmas offers a wide selection of advanced, professional and certified systems and components related to air filtration and management, along with a verity of project support services for civil defense shelters, bunkers, saferooms, storage facilities and other applications.

- **CBRN Filtration Systems**
- **CO2 Scrubbers**
- **CO Scrubbers**
- **Special Filters**
- **Blast and Air Valves**
- **Components for Shelters**

SAFE 360 is professional and certified CBRN (chemical, biological, radiological and nuclear) air filtration and ventilation system designed for small size protected spaces like safe rooms, residential shelters, bunkers, containers and other for providing fresh filtered air and creation of protected environment in the intended area.



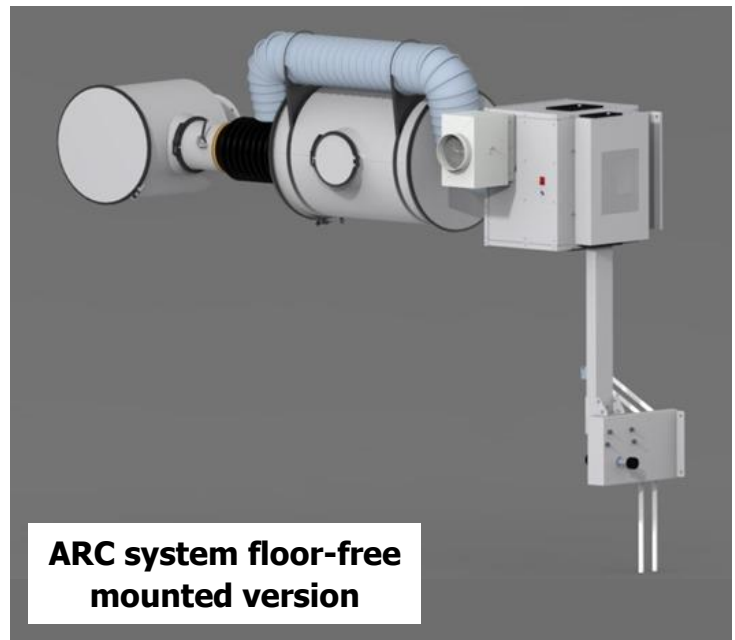
Highlights

- Tested and certified for compliance to requirements of SI4570 standard
- Approved by Civil Defence Command
- Installed in tens of thousands of shelters
- Very cost-effective
- Simple Installation and operation
- Electricity: 100-240 VAC/12 VDC
- Manual backup included in case of electric outage.



System name	Airflow Filtration/Ventilation	Max. Shelter Volume (per system)
SAFE 360	36/54 m3/h	36 m3
* Several systems can be installed in one shelter ** SAFE 360 kit includes blast valve, prefilter, electric blower, manual backup, CBRN filter, overpressure valve, air hoses and more.		

ARC series of systems are advanced, professional and certified CBRN (chemical, biological, radiological and nuclear) air filtration and ventilation systems designed for different sizes of protected spaces like shelters, bunkers, strategic facilities and other for providing fresh filtered air and creation of protected environment in the intended area.



System name	Airflow Filtration/Ventilation	Max. Shelter Volume (per system)
ARC 100	100/200 m3/h	100 m3
ARC 180	180/360 m3/h	180 m3
ARC 240	240/480 m3/h	240 m3
ARC300	300/600 m3/h	300 m3
ARC 450	450/900 m3/h	450 m3
ARC 600	600/1200 m3/h	600 m3

* Several systems can be installed in one shelter

** SAFE 360 kit includes blast valve, prefilter, electric blower, manual backup, CBRN filter, overpressure valve/s, air hoses and more.

ARC series of systems are advanced, professional and certified CBRN (chemical, biological, radiological and nuclear) air filtration and ventilation systems designed for different sizes of protected spaces like shelters, bunkers, strategic facilities and other for providing fresh filtered air and creation of protected environment in the intended area.



ARC system floor mounted version for large shelters

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

* Several systems can be installed in one shelter
 ** SAFE 360 kit includes blast valve, prefilter, electric blower, CBRN filter, overpressure valve/s, air hoses and more.

Filter Banks are multifilter CBRN filtration systems specially designed to fit project requirements like allocated space, airflow, standards, control system, etc.). Each system can be integrated with up to 10 filters with different airflows - 600, 900, 1200 or 1800 m³/h creating one unit with high air volume which can be used in civil defence shelters, bunkers and protected spaces.



Filter bank – multifilter CBRN filtration unit



CO2/CO Removal Systems – Scrubbers required for maintaining safe level of carbon dioxide (CO2) and carbon monoxide (CO) in isolated from external environment shelters, industrial facilities and spaces.



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



CBRN filters (SI4579 standard) - AFU 100, AFU 180, AFU 240, AFU 300, AFU 450, AFU 600, AFU 900, AFU 1200, AFU 1800 (the number indicates nominal airflow in m3/h.)



Specially designed CBRN, CO2 and CO filters.

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

High- and low-pressure blowers for air filtration and ventilation systems with electric and manual operation function.

Shelter high pressure electric blower with silencer



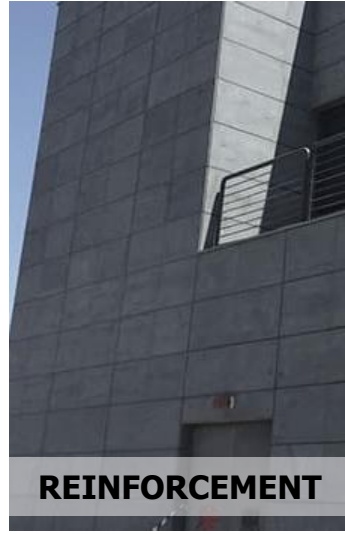
Shelter high pressure electric blower with manual backup



Shelter low pressure ventilation electric blower with manual backup



SHELTERS



REINFORCEMENT



SECURITY



EMERGENCY

Atmas Group is a Finland based, global supplier of solutions for civil defense shelters and protected spaces, critical infrastructure and facilities reinforcement, CBRN, blast, ballistic, forced entry, fire, EMP protection, security structures, emergency response and more.

We offer a wide range of professional, certified and cost-effective products and project support services, through a global network of partners and distributors.

Visit our website to learn more about our solutions: www.atmas-tech.com

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