

ARC 100 CBRN Filtration & Ventilation System for Civil Defence Shelters & Protected Spaces



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



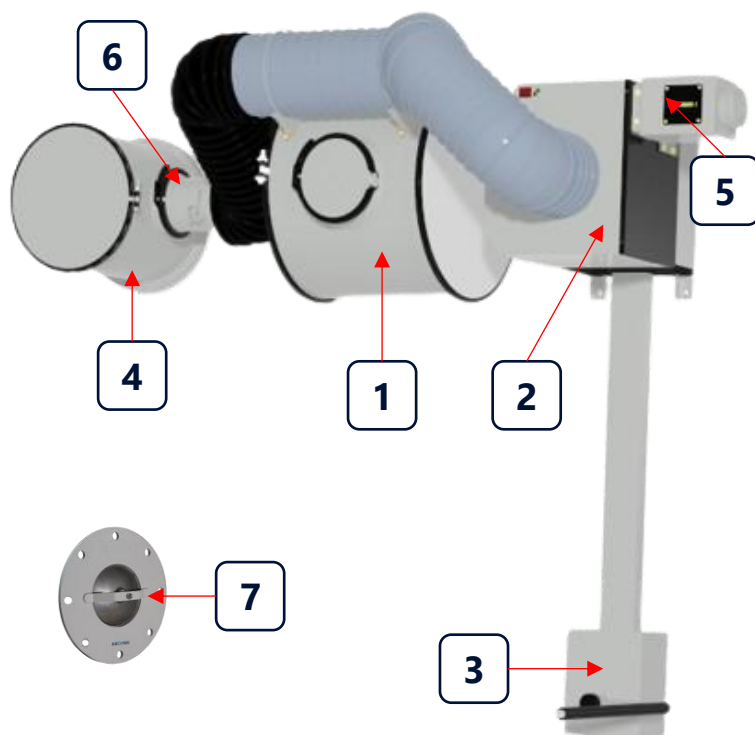
Highlights

- Tested and certified for compliance with requirements of SI4570 standard
- Airflow modes: 100/200 m3/h (filtration/ventilation)
- Can fit shelters with internal air volume of up to 100 m3/h
- Electric operation: 230/115 VAC (optional)
- Integrated with manual backup for cases of electric outage

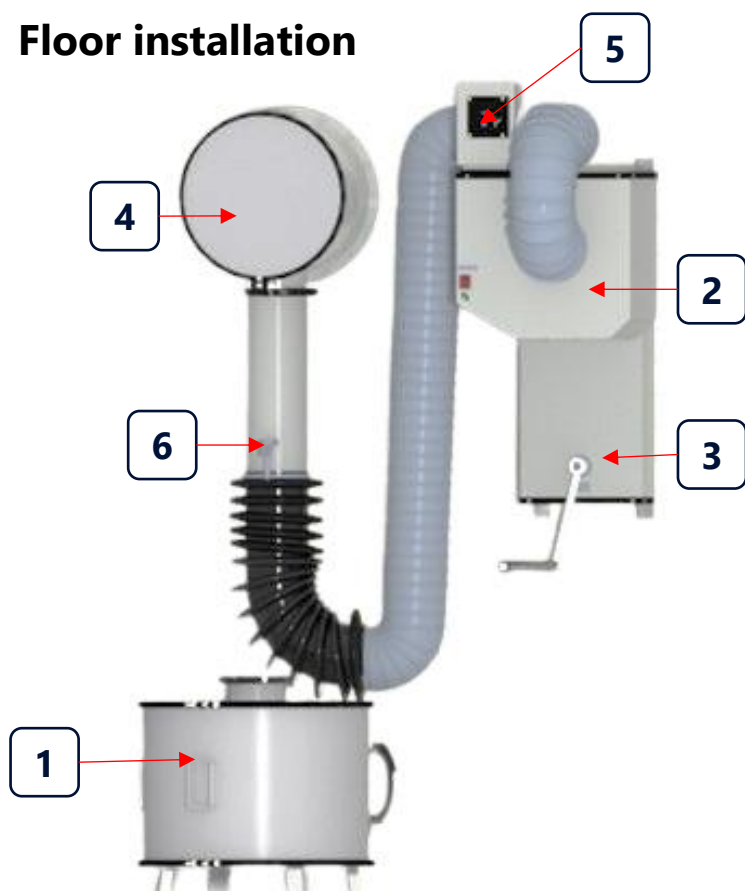
ARC 100 Main Components

1. CBRN filter (combined carbon + HEPA filter)
2. Electric Blower
3. Manual backup
4. Blast valve with prefilter
5. Silencer + airflow indicator
6. Airflow control damper
7. Overpressure blast valve with overpressure indicator

Floor-free installation

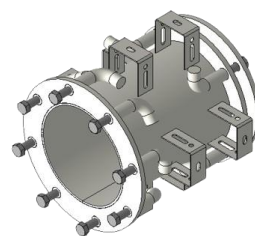


Floor installation



Installation Kit (Optional)

Wall sleeve



Retrofit flange



Technical Specifications

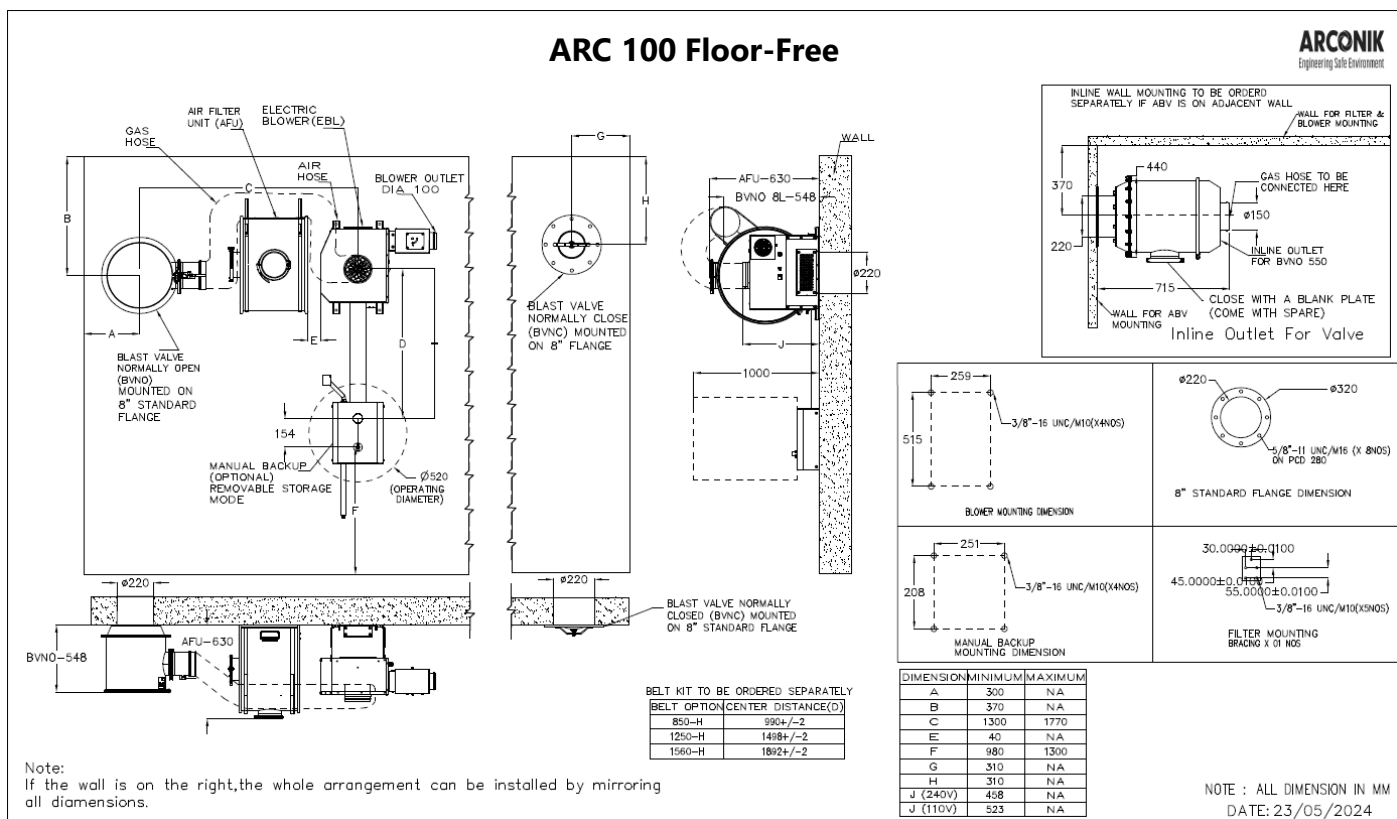
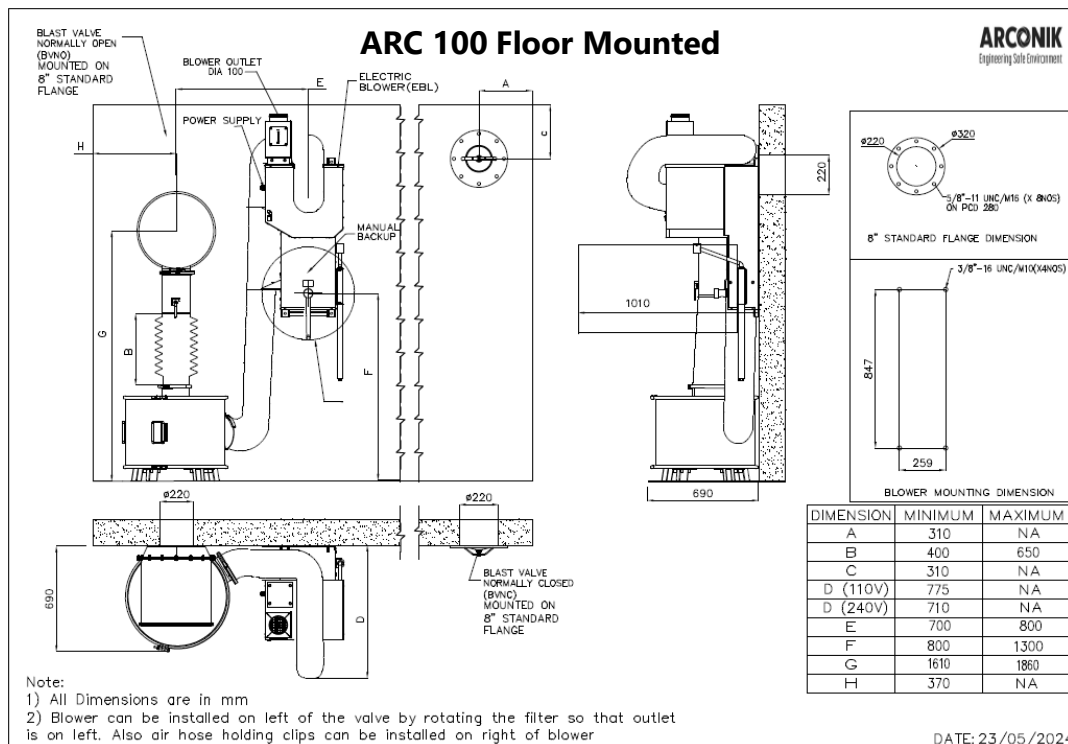
Item	Value	Units
Blast Valve (BVNO 550 8L) – Air Entrance		
Returned Pressure durability	>900 (9)	kPa (bar)
Pressure drop (Ventilation mode)	30	Pa
Pressure drop (Filtration mode)	25	Pa

CBRN Filter (AFU 180)		
Airflow rate (nominal)	100	m ³ /h
Pressure Drop @ nominal	400	Pa
Weight of activated carbon	25	kg
Total filter weight	72	kg
Mechanical filtration efficiency	≥99.995	%

Electric Blower (EBL 180)		
Airflow (Ventilation mode)	200	m ³ /h
Airflow (Filtration mode)	100	m ³ /h
Static Pressure (Ventilation mode)	1280	Pa
Static Pressure (Filtration mode)	1420	Pa
Electric motor voltage	230 (optional 115)	V
Electric motor current	5,3	A
Manual operation (backup)	2	Person
Frequency	50/60	Hz

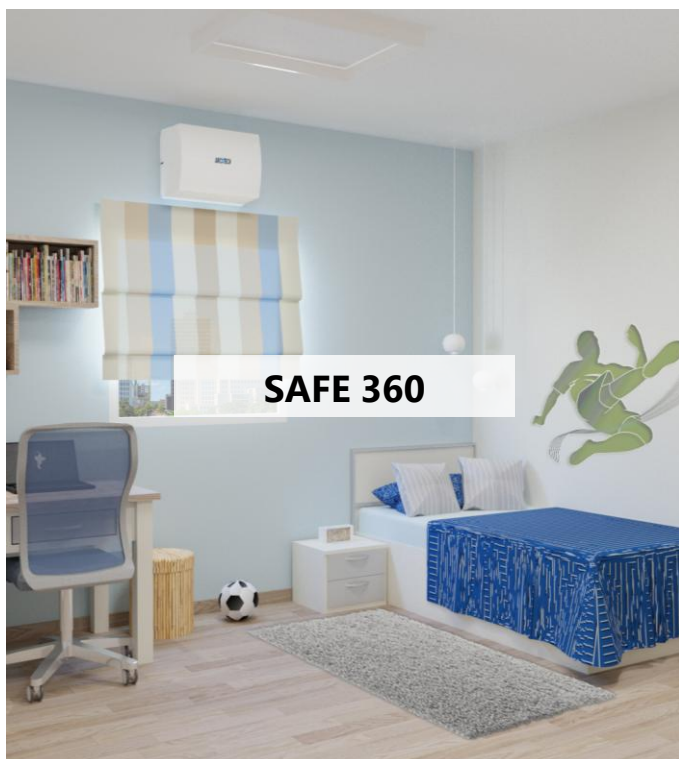
Overpressure Blast Valve (BVNC 300 8Y) – Air Exhaust		
Returned Pressure durability	>900 (9)	kPa (bar)
Pressure drop (Ventilation mode)	170	Pa
Pressure drop (Filtration mode)	150	Pa

ARC 100 Installation Dimensions



Our Line of CBRN Filtration Systems

Atmas offers a wide range of CBRN filtration and ventilation systems for installation in civil defence shelters, bunkers and protected spaces.



SAFE 360



ARC 100 - 600



ARC 100 - 1800



FILTRATION BATTERY

Experts in Shelters & Protective Technologies

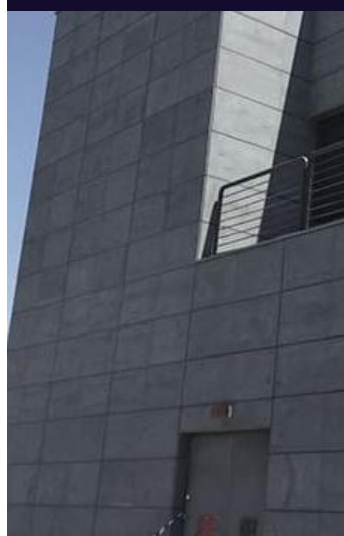
Atmas Group is a Finland based, global supplier of solutions for civil defense shelters and protected spaces, critical infrastructure and facilities reinforcement, CBRN, blast, ballistic, forced entry, fire, EMP protection, security structures, emergency response and more.

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

Shelters



Reinforcement



Security



Emergency



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any enquiry**

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