

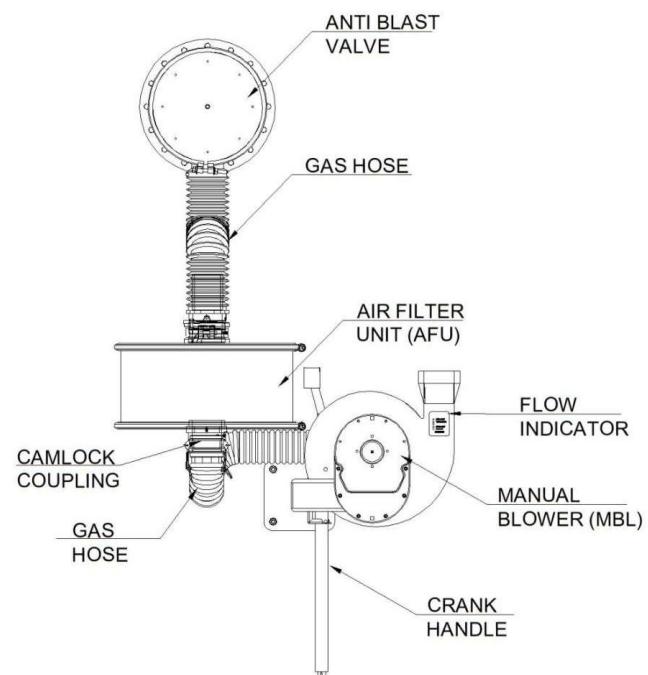
# ARC 50

## CBRN Filtration and Ventilation System

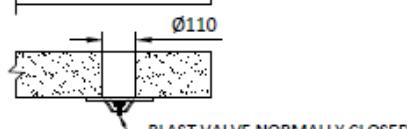
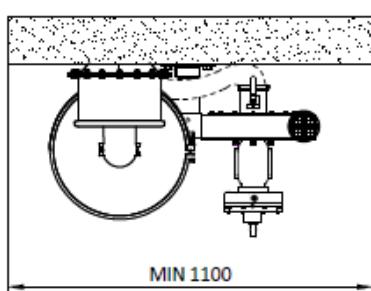
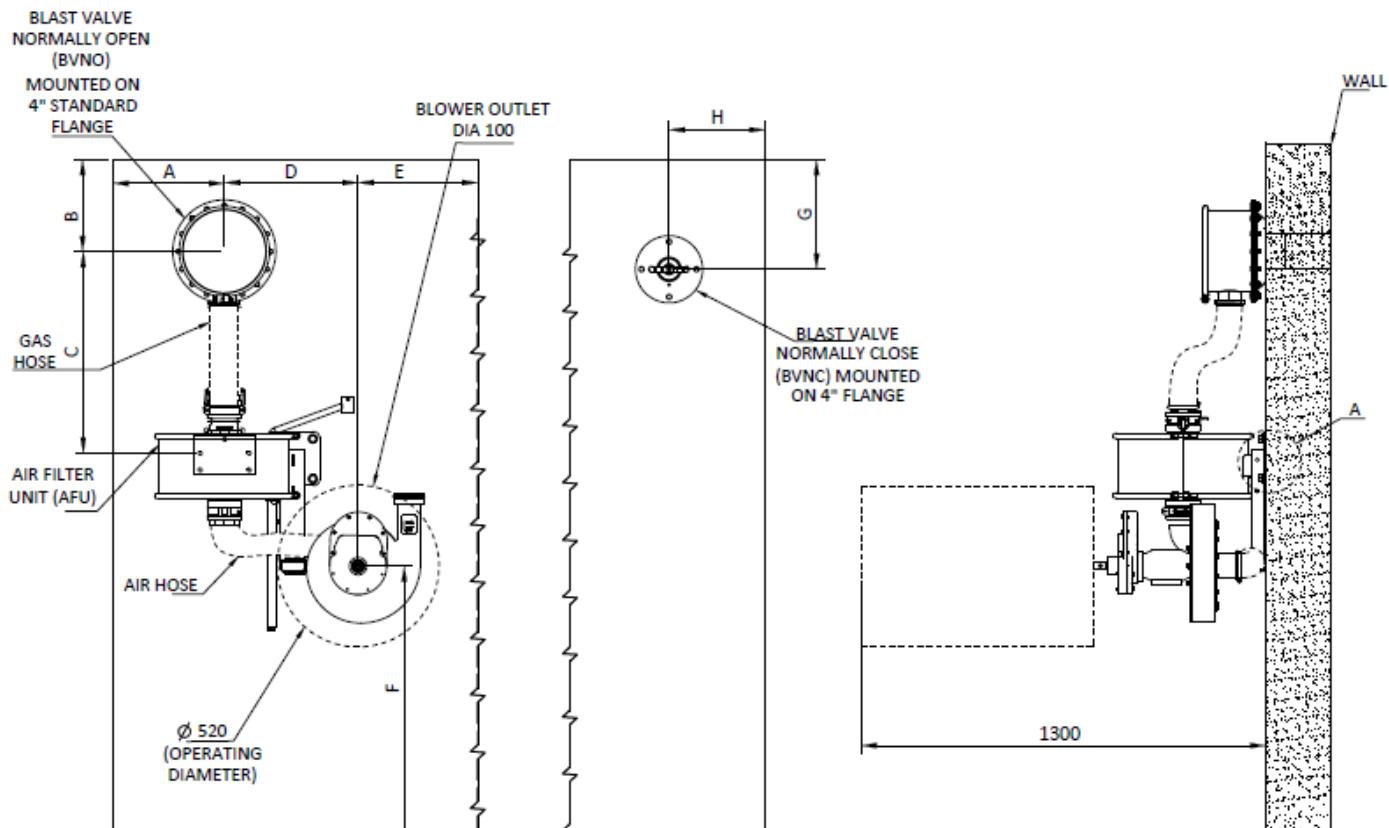
- *Airflow filtration: 50 m<sup>3</sup>/h*
- *Airflow ventilation: 100 m<sup>3</sup>/h*
- *Electric blower: 1-phase*
- *Manual backup*



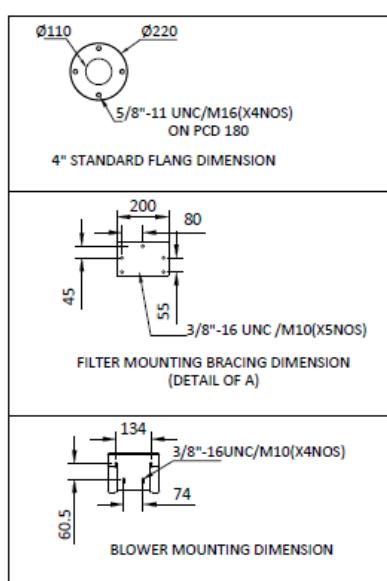
ARC 50 is an advanced collective protection CBRN (chemical, biological, radiological and nuclear) air filtration and ventilation system designed for installation in protected spaces like shelters, bunkers, strategic facilities and other applications for providing fresh filtered air for safe breathing, maintaining an overpressure and creating protected environment inside the intended area.



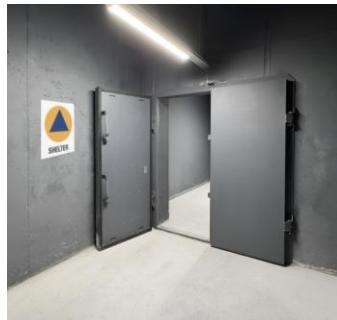
ARC 50 SYSTEMS COMPONENTS	VALUES	UNITS
<b>BLAST VALVE NORMALLY OPEN (BVNO 225 8L)</b>		
Airflow (Ventilation mode)	100	m3/h
Airflow (Filtration mode)	50	m3/h
Functional Pressure Durability of Valve	900	Kpa
Maximum Pressure Durability of Valve	2000	Kpa
Pressure drop (Ventilation mode)	110	Pascal
Pressure drop (Filtration mode)	30	Pascal
Weight of Anti-Blast Valve	27	Kg
<b>AIR FILTER UNIT (AFU 50)</b>		
Airflow rate	50	m3/h
Pressure drop at Nominal flow	320	Pascal
Weight of active carbon	7	Kg
Weight of Air Filter Unit	23.3	Kg
Efficiency	≥ 99.995	%
<b>CENTRIFUGAL BLOWER (EBL 50)</b>		
Airflow (Ventilation mode)	100	m3/h
Airflow (Filtration mode)	50	m3/h
Nominal Pressure (Ventilation mode)	910	Pascal
Nominal Pressure (Filtration mode)	945	Pascal
Electric Motor (Voltage)	230	V
Electric Motor (Current)	3.5	A
Manual Operation	2	Person
Frequency	50	Hz
Current power (AC)	1	Phase
<b>BLAST VALVE NORMALLY CLOSED (BVNC 250 8Y)</b>		
Airflow (Ventilation mode)	100	m3/h
Airflow (Filtration mode)	50	m3/h
Functional Pressure Durability of Valve	900	Kpa
Maximum Pressure Durability of Valve	2000	Kpa
Pressure drop (Ventilation mode)	250	Pascal
Pressure drop (Filtration mode)	170	Pascal



DIMENSION	MINIMUM MM(INCH")	MAXIMUM MM(INCH")
A	300(11.81")	NA
B	300(11.81")	NA
C	670(26.37)	870(34.25)
D	330(12.9")	NA
E	400(15.75")	NA
F	800(31.50")	1300(51.18")
G	300(11.81")	NA
H	300(11.81")	NA



Note: All dimensions in mm



**Atmas Group** is a Finland-based global supplier of products, technologies, project support services and complete solutions in the areas of civil defense shelters and protected spaces, facilities reinforcement against CBRN, blast, ballistic, forced entry and EMP threats, as well as security, safety and emergency response.

Atmas is trusted by customers and partners around the world providing a unique combination of solutions "under one roof", with a focus on advanced technologies, product customization, uncompromised service and comprehensive project support.

## Atmas Group Oy

Hermannin rantatie 3A  
00540 Helsinki  
Finland  
+358 449843373  
[info@atmasgroup.com](mailto:info@atmasgroup.com)  
[www.atmasgroup.com](http://www.atmasgroup.com)