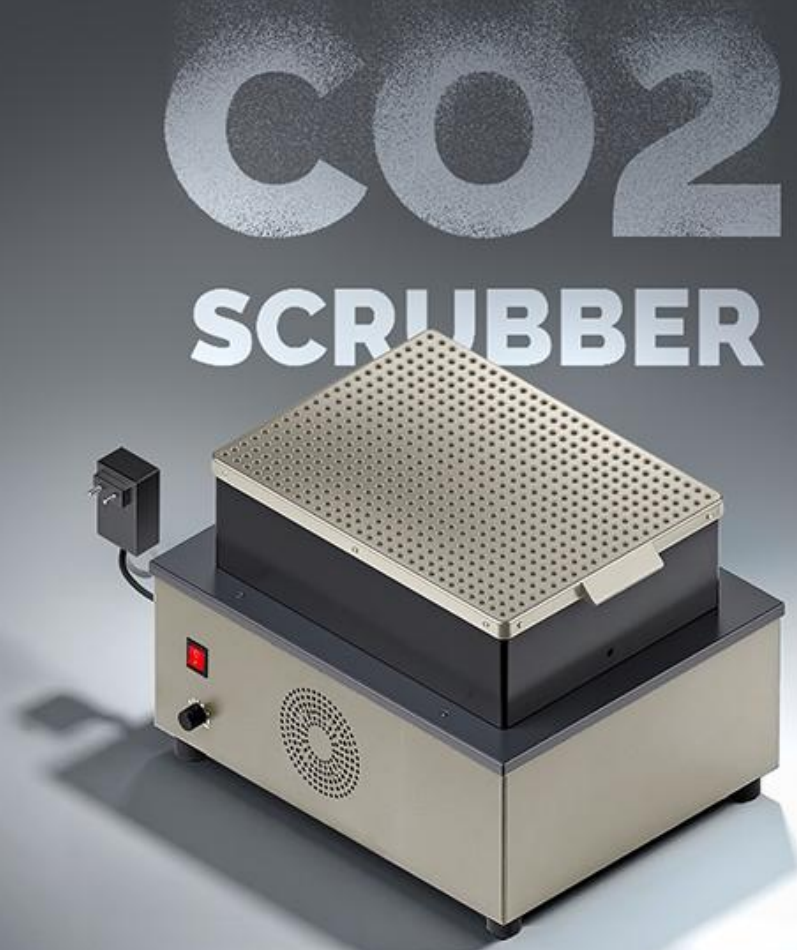


CO2 SCRUBBER - AIR REGENERATION SYSTEM

ARC CO2 1500L



ARC CO2 1500L Scrubber

ARC CO2 1500L stand-alone CO2 scrubber for carbon dioxide removal and air regeneration in civil defence shelters, bunkers and isolated spaces with limited fresh air supply and potentially high concentration of CO2. The scrubber with a cartridge designed to absorb the CO2 from the air, which is released during human respiration.

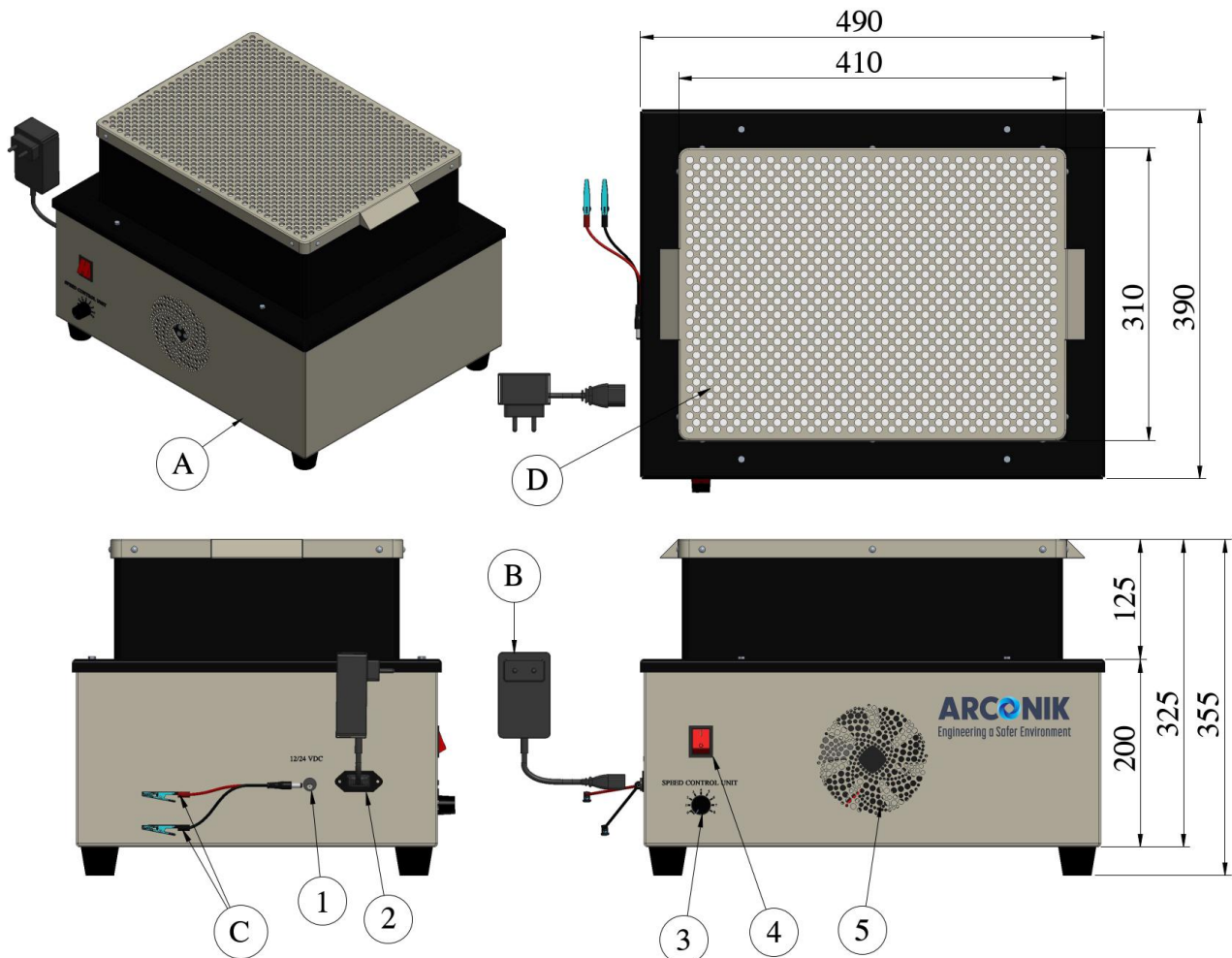


Specifications ARC CO2 1500L Scrubber

Position	Value
Airflow range	50-70 m3/h
Power supply AC	230 / 115 V
Power supply DC	12 / 24 V DC
Weight blower unit	14 kg
Weight with cartridge	29 kg

ARC CO2 1500L Dimensions and Description

The **ARC CO2 1500L** carbon dioxide removal system (scrubber) is a stand-alone unit that designed for use with **AFU CO2 1500L** cartridges (single cartridge slot).



Structure

- A.** Blower unit
- B.** Power supply cable (230/115 V AC)
- C.** Cable with Alligator Clips for connection to 12/24 V battery
- D.** AFU CO2 1500L Cartridge

Description

- 1.** Socket for battery power supply
- 2.** Socket for 230/115 V power supply
- 3.** Airflow regulator
- 4.** On/Off switch
- 5.** Air exhaust outlet

AFU CO2 1500L Cartridge for ARC CO2 1500L Scrubber

The replaceable **AFU CO2 1500L cartridge** designed for use with **ARC CO2 1500L** scrubber. The cartridges designed to absorb the CO2 from the air, which is released during human respiration or other sources.

The cartridge case is made of metal and filled with the chemical component Soda lime.

The AFU CO2 1500L cartridges are supplied in a hermetically sealed package for longer storage time. After opening of the sealed package and start of the scrubber operation, the regeneration process starts immediately.



Specifications AFU CO2 1500L Cartridge

Position	Value
Dimensions (L×W×H)	400x300x180 mm
Weight	15 kg
CO2 absorption capacity	>1500 liters
Nominal airflow rate	60 m3/h
Operating airflow rate	50-70 m3/h
Pressure drop @ nominal airflow	140 Pa
Storage time (factory package)	3 years

When CO2 Scrubber is required

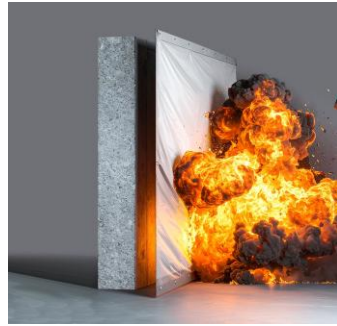
Many civil defence shelters, command and control rooms, refuge chambers and other facilities which need to be operated in emergencies include the option for complete isolation from the external environment for some periods of time.

Such mode used also in submarines, space shuttles and other applications that must operate independently in dangerous environments or where no breathable air is available.

After some time, which depends on the size of the isolated area, number of people and other factors, the CO2 levels will start to grow and can reach dangerous levels. The CO2 scrubber will provide a solution for removal of the carbon dioxide from the air and maintain safe and control environment along with other systems that may be required in such type of facilities.

Illustration of ARC CO2 1500L scrubber in the shelter





About Atmas

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.

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