

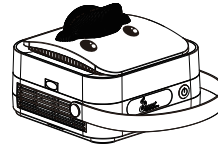


# b-MOLA NCCO Air Treatment Unit Operation Manual

**Model No.: NCCO1804**

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Thank you for choosing b-MOLA NCCO Air Treatment Unit.

Before using and maintaining this appliance, please read this manual carefully and thoroughly.

Please read the "Safety Instructions" carefully before using this appliance.

Failure to follow the instructions to use this appliance may result in injury or property damage.

Please keep this manual in a safe place for future reference.

Please keep the warranty card for future repairs.



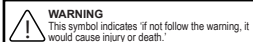
## Safety Instructions

Please Follow Instructions Below

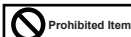
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Do not let children use this device as a toy. Cleaning and user maintenance shall not be made by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Prior to cleaning or maintenance, the appliance must be disconnected from the supply mains.



In order to avoid injury of operatives or others, please follow safety instructions.

■ The following symbols are classified based on the hazard level or injury effects caused by improper use or operation.



■ The two symbols below refer to the relevant instructions that need to be followed.



- It is prohibited to move the unit by pulling on the power cord. (Otherwise the power cord could be damaged, resulting in fire or electric shock.)
- It is prohibited to damage the power cord or power plug. It is prohibited to cut, refile, excessively twist, 'wring' or squeeze the power cord. (Otherwise this could lead to a fire or an electric shock.)
- It is prohibited to pull the power cord near a heat source or place under a heavy object. (Otherwise this could lead to a fire or an electric shock.)
- It is prohibited to use no other power source other than a voltage of DCSV and 2 amps. (Otherwise this could cause overheating leading to a possible fire.)
- It is prohibited to place one's fingertip, any metal object or anything else into the air inlet, air outlet or any gap. (Otherwise the user might touch an internal component, leading to an electric shock or personal injury.)
- It is prohibited to touch power plug with wet hand. Otherwise it could result in electric shock. 
- It is prohibited to place the unit in a location near a water / liquid source or where it can easily get wet. Otherwise, the unit may be short-circuited, and resulting in fire or electric shock. 
- It is prohibited to place small objects near any area of the unit where a child or infant might be liable to touch. (Please avoid children of eating such objects. If such situation occurs, please go to hospital immediately.)
- It is prohibited to place the battery in the fire or near heat whilst refilling with a new battery. Please dispose of the battery in line with local safety disposal requirements. Damage to the battery outer insulation cover or release valve could cause personal injury.

- If one of the following abnormal or malfunctioning situations occurs, please immediately stop using the unit and pull the plug from its power source. (Otherwise this could lead to an electric shock, a fire or smoke.)
  - Unit stops running when moving the power cord.
  - Any control button fails.
  - If the circuit breaker moves or fuse burns up.
  - If the power cord or plug is abnormally warm or heated.
  - If there is a burnt smell, abnormal noise or vibration.
  - If there is anything deemed abnormal in the unit's function.
- Stop operating unit, pull out power plug, and contact Customer Service Centre or distributor for inspection and maintenance.
- Please clean the plug regularly. If there is any dust found on the plug in a humid environment, this could damage the insulator leading to a possible fire.
  - Pull out the power plug and clean it with a dry cloth.
  - If you do not intend to use the unit for a long period of time, please pull plug out of power source.
- Please pull out the power plug before any maintenance or cleaning work is undertaken. (Otherwise the unit might start functioning unexpectedly causing an electrical shock or personal injury.)
- Ensure that the power cord is securely and completely inserted into the power outlet before use. If not fully inserted, then power cord could become overheated causing a possible fire or an electric shock.
  - It is prohibited to use damaged power plug or loose power socket.

- It is prohibited to arbitrarily disassemble or refile the unit otherwise it might function abnormally, causing a fire or electric shock. If any maintenance work is required on the unit, please contact your local customer care centre or distributor.

## Safety Instructions

Please Follow Instructions Below



- It is prohibited to place the unit in the following places.
  - An uneven place. (Unit might fall causing injury or product damage.)
  - Bathroom, kitchen or other places with high humidity / temperature. (Otherwise the unit may be damaged or suffer from electric leakage, resulting in fire, electric shock or personnel injury.)
  - Locations where oil or other combustible gases might be leaking. (Otherwise such an environment might cause the unit to catch fire, leading to a disaster.)
  - Near heater or other heat sources.
  - (Otherwise the unit may be overheated, leading to fire disaster.)
- It is prohibited to use gasoline or other volatile mixed solvents to wipe the unit. (Otherwise the unit casing might fracture, resulting in a short circuit.)
- It is prohibited to operate the unit when using insecticide smoke.
  - (Otherwise insecticide particles might accumulate inside the unit resulting in the exhaust draft from the air outlet possibly causing damage to health.)
  - After using insecticide, the room should be ventilated thoroughly, before the unit can be operated.
- It is prohibited to block the air inlet or outlet by placing clothes, books or other obstacles. (Otherwise it may lead to smoke and fire.)
- It is prohibited to sit, stand or lean on this product.
  - (Otherwise the unit might turnover or crack, causing personal injury or unit damage.)
  - \* Families with children, please pay attention to the operation process.
- It is prohibited to approach the unit with ignited cigarettes, incense and others. (Otherwise, it may be sucked into the unit and cause fire.)
- It is prohibited to spray flammable materials such as insecticides or air fresheners around this product.

- Please pull the power plug by holding the correct part of the plug. (The power cord might otherwise be damaged leading to a potential fire risk or electric shocks.)

## Setting & Operation Requirement

Prohibited Items

### Prohibited Items:

- It is prohibited to disassemble battery. There are protection mechanisms and protection circuits inside the battery to protect the user. Any improper dismantling will damage the protection mechanisms and possibly cause the battery to get heated, generate smoke and fire.
- It is prohibited to heat or burn the battery. This may cause the melting of the battery insulator with the loss of its safety function and burn the electrolyte within. High temperatures might cause the battery to overheat, distort the case and lead to smoke and possibly fire.
- It is prohibited to wet the unit. The unit is installed with an internal battery. Wetting the unit or placing it into water may cause the loss of functionality of the battery protective circuits. This could lead to an abnormal chemical reaction leading to possible heating of the battery, giving off smoke and start a fire.
- Please avoid charging or operating the unit near a source of fire or under direct strong sunlight. Do not charge or operate the unit near the source of a fire or oven, or in an environment of excessive high temperatures. Overheating could ensue causing functionality loss, short circuit of the battery together with an abnormal chemical reaction. This could overheat the battery leading to smoke and possibly fire.

## Safety Instructions

Matters That Need Attention

### Lithium Battery Safety Instructions

Following Aspects Need Attention:

1. If one observes an undesirable odour from the installed battery, or from other areas within the unit on first-time operation, please do not operate and return to the distributor.
2. Please keep the unit away from an environment involving a heat source, a high barometric pressure or an increasing pressure on the surface of unit during its operation. Place the unit in a secure and safe operating location and away from children.
3. Avoid the unit being shaken in a serious vibrating environment.
4. Please avoid storing or operating the unit in a strong sunlit and hot environment. This will prevent the battery from overheating, becoming distorted, smoking or shortening its life.
5. Please avoid operating the unit in an environment which might conduct static electricity and induce the battery to overheat, distort, generate smoke or shorten its life.
6. Please only charge the battery with the dedicated charger and follow the recommended charging method.
7. Insert battery in correct polarities. It is prohibited to arbitrarily disassemble or refit unit and battery. For safety concern, do not place unit at a wet location.
8. To keep the battery at half-charged condition without any damage and place in the unit a cool dry location when stored for a long period of time.
9. Do not put battery into fire or water.

#### Placing Area Guideline

##### ■ Removing indoor dust.

Place unit on a flat surface in an open area where dust falls easy.

##### ■ Best air circulation location area.

Place unit at least 15cm (6") from a wall, furniture, curtains etc, otherwise its filtration efficiency will possibly be diminished.

##### ■ Do not place the unit in the following places or areas.

- Direct sunlight, near air-conditioning unit air flow or heat. (This may cause distortion, colour change or reduced life.)
  - Near television, radio etc. (This may cause television image disorder and radio noise.)
- Place unit at least 1m from such objects.

##### ■ When operating unit in same location for a long period of time.

- Surrounding walls or floor could be dirty.
- When maintaining unit, please change the location.

##### ■ Do not use the same power socket as one already used for television or radio.

(Television image disorder and radio noise may appear when power plug is inserted into socket.)  
→ Please use alternative power sockets.

##### ■ Do not place objects on the unit. (This might affect the operation of the unit.)

##### ■ Do not obstruct air inlet or outlet. (This could reduce efficiency of air filtration by unit.)

## NCCO Technology

Please Follow Instructions Below

### Patented NCCO Air Purification Technology Brings Fresh and Clean Air

Patented NCCO (Nano Confined Catalytic Oxidation) Air Purification Technology is invented by Member of HKUST Entrepreneurship Program, and has obtained global patents. Our technology can solve indoor air quality problems in an all-round way, create a home / office environment with fresh air, and protect you and your family's health.



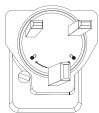
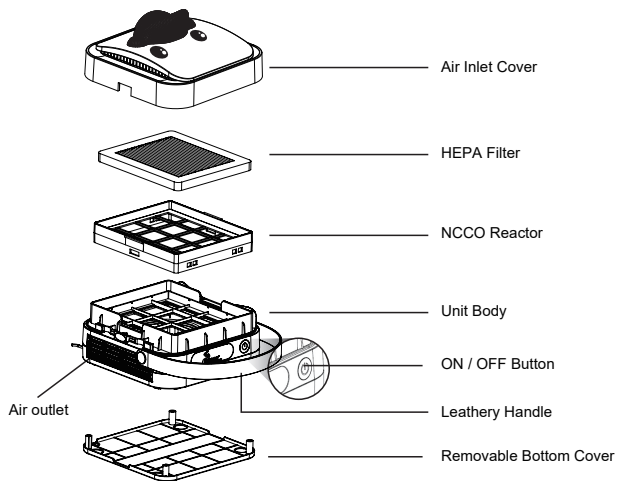
### NCCO Technology's Characteristics

- Patented NCCO Technology continuously removes bacteria and viruses efficiently.
- Patented NCCO Technology effectively decomposes carcinogens in the air, such as formaldehyde.
- Hazardous pollutants will be decomposed into harmless water molecule and carbon dioxide, and will not accumulate in the filter, effectively avoiding re-release into the air due to saturation, and will not cause secondary pollution.
- Under normal maintenance conditions, NCCO Reactor can be used for a long time. Since there is no need to replace NCCO Reactor frequently, the operating cost is much lower than similar products on the market.
- Effectively remove offensive odour.
- Patented NCCO Technology has been widely used in different industries, such as schools, hospitals, nursing centers and public toilets.

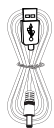
### About Intelligent Power-Off Protection

b-MOLA NCCO Air Treatment Unit is designed using an Intelligent Power-Off Protection System. The unit will intelligently power off after continuous use over a period of 8 hours and then will restart automatically after 30 minutes downtime once connected to an external power supply. The unit will use the intelligent system to power-off after continuous use of 2 hours, and then will restart automatically after 10 minutes of downtime when using its internal (battery) power supply. Our intelligent power-off system is able to effectively avoid excessive load and eliminate any risk during the supply of power.

## Parts & Components



Power Adapter\*  
(\*Picture for reference only)



USB Power Cord



Screwdriver

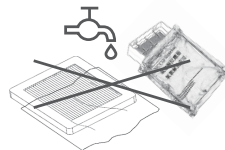


Ribbon

## Getting Started

### First-time Operation

- ① Take out HEPA Filter and NCCO Reactor from protective packaging material.



- ② Take out the body of the filtration unit. Press the side clips to open the air inlet cover.

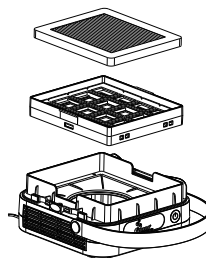


#### Note

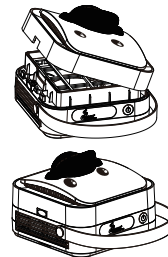
It is prohibited to clean, soak or wet any parts, or they could be damaged and so affect the unit operation.

- ③ Install HEPA Filter and NCCO Reactor combination into the body of the unit.

N.B. HEPA Filter should face upwards.



- ④ Firmly clip and re-fit the air inlet cover onto the main body of the unit. A 'clicking' sound should be heard indicating successful installation.

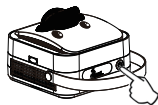


## Getting Started

### Operating Instructions

One can connect to a power supply using the following methods:

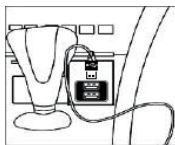
- ① **Using internal battery** – Just press the ON/OFF Button and the unit will start using its rechargeable lithium battery.



- ② **Using USB power cord** – Insert USB connector into supplied power plug and connect to appropriate socket. Insert pin end of plug into the power port of main unit. This is located underneath the unit.



- ③ **Using USB power source (car)** – Insert USB connector into car USB port which will use charging power from vehicle.



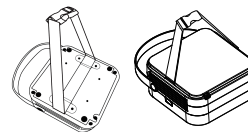
#### Note

- If the filter set is not installed into the unit, a "DiDiDi" alarm will sound. Please ensure that the filters are properly installed before turning on the unit.
- When the unit is first turned on (activated), there will be a slight mineral smell. This is perfectly normal and is due to special manufacturing technique of the NCCO Reactor. The smell is harmless and will disappear after a period of time operating the unit.
- Please check and ensure that the car power supply is correct. The power input of this unit is DC 5V 2A.
- Before operating unit in car, please make sure that the power supply has been disconnected and lift up unit carefully.

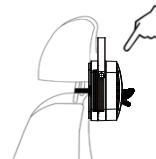
## Getting Started

### Operating Instructions

- ① Remove base plate from underneath unit. Remove 4 screws holding ribbon securing plates. Place and locate both free ends of ribbon and then screw back securing plates. Replace base plate.
- ② Plug in DC power jack into power port in base of unit.



- ③ Position the unit at the back of car headrest using the securing ribbon.



- ④ You can adjust ribbon tension by moving ribbon within the clip buckle.



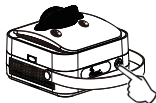
(\*Please ensure that ribbon has been tightened to prevent unit from wagging.)

#### Note

- If using the unit in a mobile environment, please ensure that the unit is firmly fixed so that it does not 'waggle' or loosen when in motion.
- If using the unit in a car, please follow the relevant country laws and regulations such as not placing free standing objects on the car centre console.
- Please check and ensure that the car power supply is correct. The power input of this unit is DC5V 2A.

## Getting Started

### ON/OFF Operation



#### To switch on unit

Press the ON/OFF button to start operation. At the start of operation, unit will be in normal low airflow mode and the ON/OFF button will have a weak-white light.

#### To switch to high airflow mode

Press the ON/OFF button whilst in operation and the airflow volume will increase to high airflow mode and the ON/OFF button will have a blue light.

#### To switch off unit

Press the ON/OFF button again to stop operation.

### LED Indicator



When the power ON/OFF indicator flashes in different colours, they indicate following situations:

	Fan Speed	Slow Flash	Fast Flash
Blue Indicator	Highest	Charging & Charging	Low Power
White Indicator	Lowest	Charging & Charging	Low Power

- When the indicator flashes white and then blue alternately, it indicates that the unit is off and is charging.

### Memory Function



When the external power supply is stopped or interrupted unexpectedly, the unit will automatically transfer to its internal battery power supply. When the battery is exhausted and the unit stops running, it will memorise the operation mode and will return to the previous mode when external power is re-connected to it.

## Maintenance & Care

### WARNING

- Always disconnect the power supply of the unit before any maintenance or care process is carried out (except replacing filters).

(Otherwise the unit might still be running and could cause an electrical shock causing injury.)

### Note

- It is prohibited to clean the unit with any detergent.
- If cleaning the unit by using a cloth that is chemically treated, please read the instructions supplied.
- During maintenance work, do not touch the disassembled parts randomly and ensure you do not stumble over them, thus injuring yourself or damaging the parts.
- Do not operate unit if HEPA Filter has not been installed, since this could cause irreversible damage to NCCO Reactor.
- If the HEPA Filter is not replaced periodically as indicated in instructions, it may seriously affect the efficiency of the NCCO Reactor.

## Cleaning Methods

### 1 Cleaning External Surfaces of Unit Body



Please first take out Air Inlet Cover before washing it with water (only Air Inlet Cover can be washed with water). The main body of the unit can be wiped with a soft dry cloth but avoid dust falling on HEPA Filter or NCCO Reactor.

#### Note

After washing the air inlet cover, please ensure that it is completely dry before replacing onto the main unit.  
Tips : A damp (non-abrasive) cloth can be used to clean the unit surface.

### 2 Cleaning Air Inlet and Air Outlet

Use a soft brush or light vacuum to clean the air inlet and air outlet.

#### Note

WARNING:  
Never rinse or soak the HEPA Filter or NCCO Reactor in water.  
When storing unit for a long period of time:

- Stop operating unit and pull power plug from power source.
- Carry out any maintenance or care work.
- Place the unit in a plastic or box carton, and store in a cool dry place.

## Maintenance & Care

### Filter Maintenance and Replacement

1. The lifetime of the filter will vary depending on the environment, amount of usage and location of the unit.
2. To maintain optimal operating condition of the unit, only use the recommended filter.
3. Turn off unit but maintain power supply when replacing filters.
4. Please follow HEPA Filter Surface Color Changing Indicator to dispose HEPA Filter.

RECOMMENDED FILTER CLEANING AND REPLACEMENT CYCLES AND METHODS		
Filter	Cycle	Method
HEPA Filter	Every 6-12 months*	Replace
NCCO Reactor	Available to sustainable use **	Available to sustainable use **

\*The filters cleaning and replacement cycle may vary depending on the operation environment.

\*\*If the HEPA Filter has not been replaced periodically or is damaged, or if the surface of the NCCO Reactor is covered with dust or oily substances after disassembly, the removal capacity of the NCCO Reactor may be drastically reduced and should be replaced.

HEPA Filter Surface Color Changing Indicator		
No need to Replace	Replacement is Recommended	Replacement is Needed

## FAQ

Q1

A 'DiDiDi' sound is heard from the unit and the unit is not operational.

A

Please re-check whether the HEPA Filter and NCCO Reactor Combination has been properly installed. If not, please re-install HEPA Filter and NCCO Combination.

Q2

Can HEPA Filter be washed with water?

A

NO, the HEPA Filter is made of composite material and washing will seriously affect its purification capacity.

Q3

The air quality has not improved even after the unit has been turned on for a long time.

A

If the unit is used in a severely polluted area, the treatment process will take longer. It is recommended to use the HIGH FLOW MODE or extend the operational time until the pollution diminishes.

Q4

The unit emits an unusual smell or smoke (e.g. smoke, flames or burning)

A

Turn off the unit and disconnect it from power supply right away. Call the customer service center immediately or contact with a qualified service provider.

## Trouble Shooting

Problem	Solution
Unit does not operate.	Check whether the unit is correctly connected to its power supply. (Please refer to page 8 for the correct method of connecting the power supply.) Turn on unit.
'DIDID' sound is heard and unit does not operate.	Check whether the filters have been correctly installed. Re-install filters.
No air is being blown out of the Air Outlet.	Check whether the unit is correctly connected to its power supply. Turn on unit.
The air quality has not improved after a long operation time.	If the unit is used in a seriously polluted area, the treatment process will take longer than normal. It is recommended to operate the unit using its high airflow mode until the pollution diminishes.  Filters might require cleaning or replaced. Clean or replace filters.
Airflow speed at Air Outlet becomes slow.	Filter may be blocked. Replace the filter. (For the method to install filters, please refer to Page 7.)  Make sure all packaging materials are removed.
Unit produces abnormal noise.	Make sure all packaging materials are removed.  Make sure Air Inlet and Air Outlet are not blocked by foreign matter.  The unit may be malfunctioning – Seek advice from service centre or an authorised service provider.
Unit emits unusual smell, odour or smoke (also flames or burning).	Immediately switch off unit and disconnect its power source. Call the customer service center immediately or contact with a qualified service provider.

## Product Specification

Power Supply			DC5V 2A
Power Consumption (W)	Mode	Lowest	1.3
		Highest	2.5
Airflow Volume (m <sup>3</sup> /hr)	Mode	Lowest	12
		Highest	25
Noise Level (dB)	Sound Pressure Level		34 dB - 38 dB
	Sound Power Level		40.6 dB - 44.9 dB
Product Dimension (L x W x H) (mm)			160 (H) x 160 (W) x 120 (L)
Net Weight (kg)			1
Treatment System		Active Oxygen Generator	Sterilization & Disinfection
		HEPA Filter	Removes dust, hair, and airborne particles such as allergens, pollen, bacteria, viruses and fungus.
		NCCO Reactor	Remove odour and decompose formaldehyde, VOCs and other harmful pollutants.