



 **BREATHE EASY**  **LIVE GREEN**

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## VISION

At RHT, we are harnessing the power of our unique NCCO (Nano-Confined Catalytic Oxidation) technology to redefine air purification. Our systems are not just effective and long-lasting, they are also energy-saving, sustainable, and eco-friendly. We are on a mission to make the world a better place to breathe.

## MISSION

RHT stands for Regeneration, Hope, and Trust. Through relentless innovation and dedication, we are raising the bar in air purification. Our passion for engineering and NCCO technology drives us to deliver reliable, well-designed, and technically superior products and services.

## ABOUT US

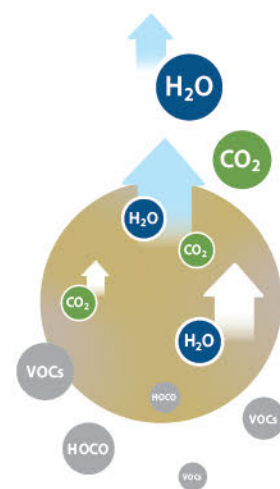
Our journey began 20 years ago with a universal purpose—to make the world a healthier place to live. Today, from our global headquarters in the tech-savvy heart of the Hong Kong Science Park, we're sharing our innovations with the world. Our RHT, b-MOLA, and NCCO-IG brands, produced under the corporate umbrella of RHT are bringing patented nano technology-driven systems to the global community.

In collaboration with a member of the Hong Kong University of Science and Technology (HKUST) Entrepreneurship Program, we have developed technology that is revolutionizing traditional air treatment. Our NCCO technology converts harmful volatile organic compounds (VOCs) into harmless molecular water and carbon dioxide (CO<sub>2</sub>). It does not just remove VOCs / formaldehyde, it also eliminates bacteria, viruses (such as Covid), particulates (like PM<sub>2.5</sub>), allergens, and odors. With RHT, you can breathe easier.



## NCCO TECHNOLOGY

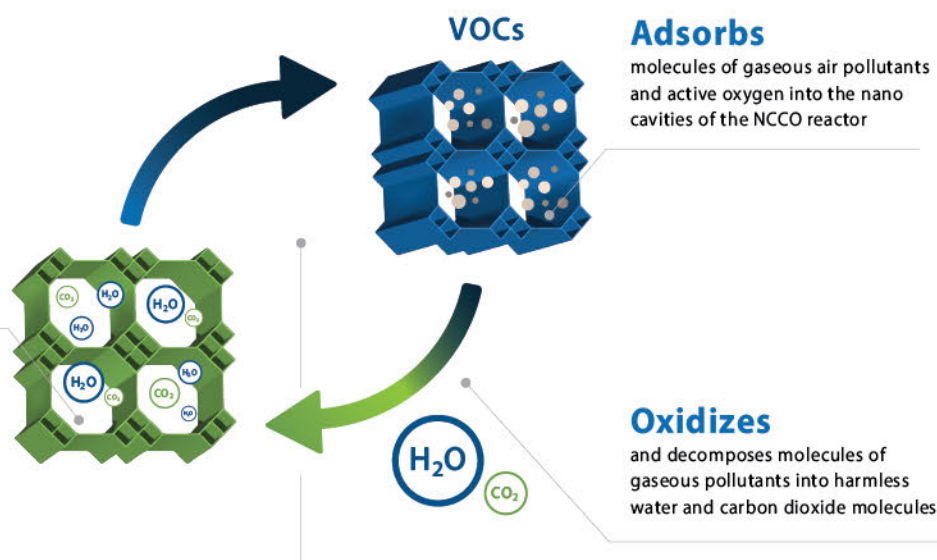
Breathe easy with our unique NCCO – Nano Confined Catalytic Oxidation – air treatment technology. Developed by RHT, in partnership with a member of the Hong Kong University of Science and Technology Entrepreneurship Program, our NCCO reactor combined with active oxygen wipes out bacteria, viruses, and harmful chemicals.



### ► NCCO REACTOR REGENERATING

#### Exhausts

harmless substances to create room for further adsorption.



#### Adsorbs

molecules of gaseous air pollutants and active oxygen into the nano cavities of the NCCO reactor

#### Oxidizes

and decomposes molecules of gaseous pollutants into harmless water and carbon dioxide molecules

## NCCO ADVANTAGE

NCCO air treatment technology for your well-being and peace of mind. Unlike activated carbon filters, our NCCO reactor uses recyclable minerals as a catalyst, reducing pollution, introduces long-acting sustainability and saving costs. It effectively removes gaseous pollutants such as VOCs and odors. It kills bacteria and viruses (including Covid). It is also highly effective in filtering dust, smoke, allergens and mould. Experience improved air quality and an enhanced quality of life with NCCO.

### ENERGY SAVING

Effectively, removes odors, thus reducing the number of air changes and the amount of air conditioning required. This directly reduces energy consumption and cost.

### SAFETY

NCCO can decompose gaseous pollutants into H<sub>2</sub>O and CO<sub>2</sub> as well as kill bacteria and viruses. Therefore, no secondary pollution.

### ENVIRONMENTAL

NCCO filtration is significantly more durable than activated carbon filter adsorption, which means there is no need for frequent and costly filter changes. NCCO technology is extremely ECO-Friendly and very cost-effective.

### SUSTAINABLE DEVELOPMENT

The NCCO reactor functions as a catalyst and has a high degree of sustainability due to its continuous regeneration process. The prolonged filter lifetime of the NCCO reactor results in a reduction of solid waste generated during its usage.



## OUR GLOBAL FOOTPRINT



Air quality is a global concern, RHT is committed to providing solutions worldwide. With offices in Hong Kong, Macau, Mainland China, and Indonesia, we serve clients across the Asia-Pacific region, Europe, Australia, Canada, and beyond.

Our team leverages vast service experience to cater to diverse industries, including medical, banking, education, hotel, and housing sectors. RHT has guided over 500 global commercial customers towards pure and fresh air.





## RH-490C

Ceiling Type NCCO Air Treatment Unit  
(Can be installed with mobile trolley)



## EC920

Peaceful Ceiling Type NCCO Air Treatment Unit  
(Can be installed with mobile trolley)



## RH-130C

Small Ceiling Type NCCO Air Treatment Unit

### DESCRIPTION

#### CEILING TYPE NCCO AIR TREATMENT UNIT

Experience the power and flexibility of our RH-490C. This model decomposes fumes or pollutants from the ceiling / false ceiling without needing a connection to ventilation systems. It effectively removes pollutants and improves air quality, making it ideal for environments like public toilets and medical testing centers. With the RH-490C, you are safeguarding the health of both employees and clients.

#### PEACEFUL CEILING TYPE NCCO AIR TREATMENT UNIT

The EC920 is your quiet solution for spaces that need peace, like offices and school campuses. Despite its noise-cancelling features, it maintains the powerful NCCO air purifying function. It is also effective in removing bad odors, bacteria, viruses, VOCs (Volatile Organic Compounds), and formaldehyde.

#### SMALL CEILING TYPE NCCO AIR TREATMENT UNIT

Perfect for smaller spaces like storage rooms, lifts, and small offices, the light weight RH-130C purifies air and decomposes pollutants over a 20-30 m<sup>2</sup> area. It's power-efficient, focusing its work on a specific area.

POWER SUPPLY (V/Hz)	220-240V~50Hz	110-240V~50-60Hz	110-240V~50-60Hz
POWER CONSUMPTION (w)	60-80	11-80	5-20
AIRFLOW VOLUME (m <sup>3</sup> /hr)	200 / 330	120 / 330 / 400	40 / 90 / 110
NOISE LEVEL (dB)	45 / 54	41 / 50 / 55	38 / 53 / 55
APPLICABLE AREA (m <sup>2</sup> )	40-100	20-90	20-30
DIMENSION (mm)	675 x 625 x 288	775 x 660 x 200	421 x 325 x 175
NET WEIGHT (kg)	25.9	21	4







RM-480

Mobile Type NCCO Air Treatment Unit

DESCRIPTION

MOBILE TYPE  
NCCO AIR TREATMENT UNIT

Meet the most powerful unit in our range. RM-480 is designed to cater to larger areas, using NCCO technology to ensure the removal of odor, bacteria, viruses, VOCs, and formaldehyde.

POWER SUPPLY (V/Hz)	220-240V~50-60Hz
POWER CONSUMPTION (w)	145-210
AIRFLOW VOLUME (m³/hr)	275 / 400 / 475
NOISE LEVEL (dB)	54 / 60 / 62
APPLICABLE AREA (m²)	80-200
DIMENSION (mm)	1030 x 375 x 930
NET WEIGHT (kg)	64







## RH-220

Duct Type NCCO Air Treatment Unit

### DESCRIPTION

#### DUCT TYPE NCCO AIR TREATMENT UNIT

Meet the most popular unit in the NCCO air filtration family, the RH-220. This practical unit can also be attached to a ventilation system of the building. It is perfect for offices where aesthetics matter, and it's already widely used by different sectors.

POWER SUPPLY (V/Hz)

110-240V~50-60Hz

POWER CONSUMPTION (w)

6-40

AIRFLOW VOLUME (m³/hr)

70 / 160 / 230

NOISE LEVEL (dB)

40 / 52 / 62

APPLICABLE AREA (m²)

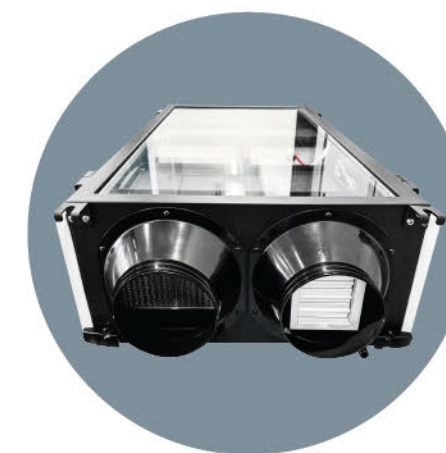
20-60

DIMENSION (mm)

638 x 303 x 270

NET WEIGHT (kg)

12.5



## RC-600-001

Fresh Air Dehumidification Type  
NCCO Air Treatment Unit

### DESCRIPTION

#### FRESH AIR DEHUMIDIFICATION TYPE NCCO AIR TREATMENT UNIT

Perfect for areas with high humidity. The RC-600-001 is a NCCO fresh air/dehumidification air treatment system. Its dehumidification capacity reaches 65L/D (30°C / 80% RH), effectively reducing humidity in the outside air, providing dry and clean air indoors, reducing the demand for air cooling, and achieving the target of energy saving and environmental protection.

POWER SUPPLY (V/Hz)

220-240V~60Hz

POWER CONSUMPTION (w)

640-920

AIRFLOW VOLUME (m³/hr)

160

NOISE LEVEL (dB)

38

APPLICABLE AREA (m²)

40

DIMENSION (mm)

890 x 560 x 260

NET WEIGHT (kg)

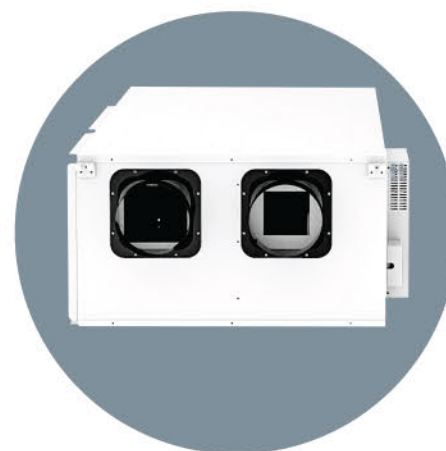
50





## RH-130F

Fresh Air Type NCCO Air Treatment Unit



## RC-600

Fresh Air / Heat Exchange Type  
NCCO Air Treatment Unit

### DESCRIPTION

#### FRESH AIR TYPE NCCO AIR TREATMENT UNIT

The light weight RH-130F can be installed within a false ceiling by connecting to ducting. It is specifically designed to improve the quality of fresh air, and it boasts NCCO technology that has ideal for removal of odor, bacteria, viruses, VOCs (Volatile Organic Compounds), and formaldehyde. By filtering and purifying fresh air before it enters the room, the unit is perfect for classrooms, small-scale offices, and restaurants.

#### FRESH AIR / HEAT EXCHANGE TYPE NCCO AIR TREATMENT UNIT

The RC-600 delivers clean outdoor air to an indoor environment following multiple purification cycles. At the same time, it exhausts indoor air to the outside and so is kind to the environment.

By the principle of energy conversion, the temperature of over heated or over cooled external air is balanced with the temperature inside, and thereby reducing energy consumption.

POWER SUPPLY (V/Hz)	110-240V~50-60Hz	220-240V~60 Hz
POWER CONSUMPTION (w)	5-20	25-170
AIRFLOW VOLUME (m <sup>3</sup> /hr)	40 / 90 / 110	230 / 660
NOISE LEVEL (dB)	38 / 53 / 55	40 / 50
APPLICABLE AREA (m <sup>2</sup> )	<25	80-120
DIMENSION (mm)	487 x 325 x 204	1220 x 681 x 355
NET WEIGHT (kg)	4.5	42.5



FRESH AIR TYPE



## RA-805

NCCO Tailor Made Air Treatment System

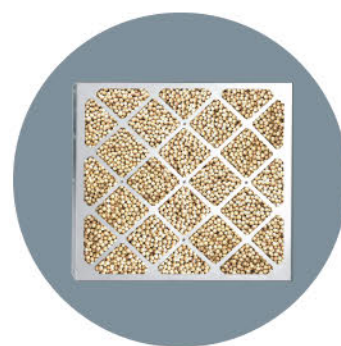
### DESCRIPTION

The RA-805 is a large, tailor-made air treatment unit that allows for the suggested air flow volume to be customized to suit customer and venue needs. It is suitable for industrial plants and the central air-conditioning systems of buildings, providing an option when a particular project calls for a high volume of air processing.



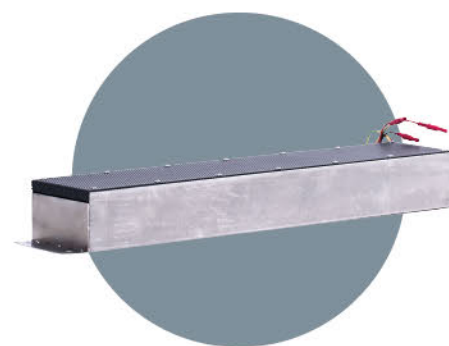
### NF1002

NCCO Reactor Add-on module



### NF1001

NCCO Reactor Add-on module



### AOG-B5

Active Oxygen Ionizer

### DESCRIPTION

#### UPGRADED AIR QUALITY UNIT

The NF1002 can be added to the infrastructure of existing air handling unit. One therefore can upgrade the air quality when a construction project requires stronger air purification and where a new system install is prohibited. It is suitable for every type of construction project, including those tackling older buildings which are hard to retrofit.

#### UPGRADED AIR QUALITY UNIT

Similar to the NF1002, the NF1001 can be added to an existing air handling unit to provide upgraded air quality. It is also suitable for every type of construction project, including those tackling older buildings which are hard to retrofit. Different from NF1002, the NF1001 uses metal materials and is particularly suitable for use in hotels, restaurants, and other places where fireproof materials or higher safety are required.

#### NCCO AIR TREATMENT UNIT

Our active oxygen generator is applied to PAU and AHU, placed in front of NF1001 or NF1002. By introducing filtered fresh air into the room, it effectively eliminates bacteria and viruses, while chemical reactions with NCCO material as to break down volatile organic compounds and odors. This ensures that everyone can enjoy a safer, cleaner, and more pleasant environment, improving the quality of the air you breathe.

POWER SUPPLY (V/Hz)

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220V~50Hz

DIMENSION (mm)

500 x 250 x 125

500 x 500 x 20

618 x 100 x 64

NET WEIGHT (kg)

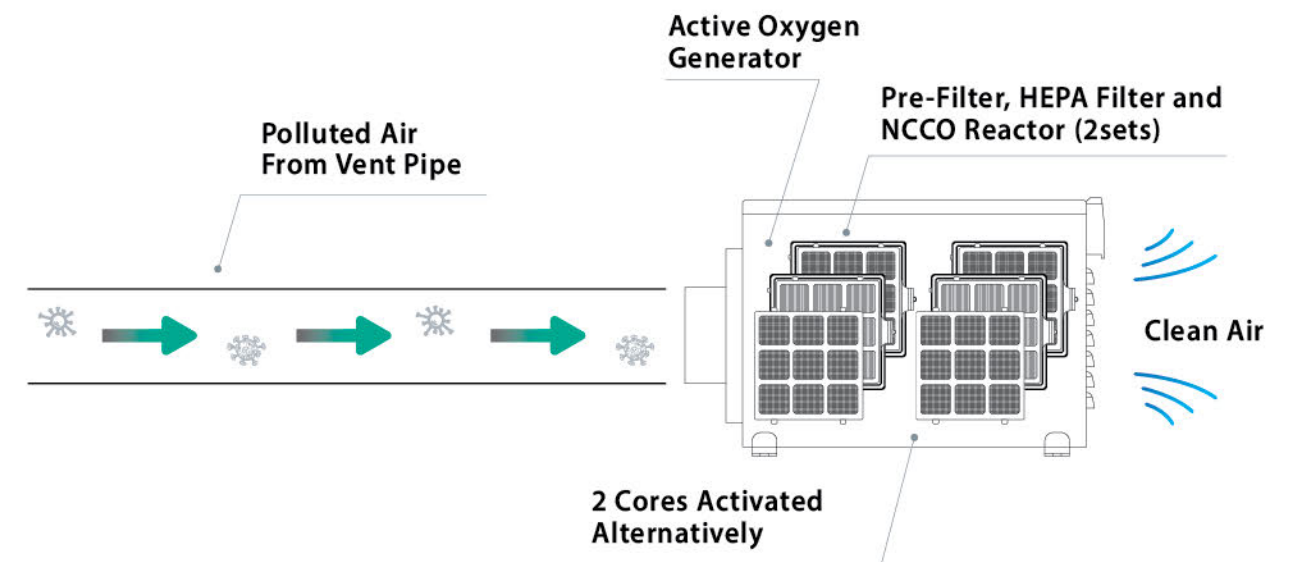
6

4.5

2.6



## NCCO VENT PIPE EXHAUST TREATMENT SYSTEM (VPD-130)



### DESCRIPTION

The NCCO Vent Pipe Exhaust Treatment System is specially designed to manage the rooftop exhaust of buildings. It filters harmful substances, bacteria and viruses before exhausting them. It uses NCCO technology to sterilize and self-clean regularly to prevent secondary pollution. The unit and filters are long-lasting as they run automatically with a dual system and switches between systems every four hours. This device is very suitable for preventing the spread of viruses and bacteria that proliferate in the septic tanks of buildings and in the air flowing through the exhaust pipes to the rooftop.

POWER SUPPLY (V/Hz)

110-240V~50-60Hz

POWER CONSUMPTION (w)

6-23

AIRFLOW VOLUME (m<sup>3</sup>/hr)

28 / 84 / 107

NOISE LEVEL (dB)

36.8 / 55.1 / 59.6

APPLICABLE AREA (m<sup>2</sup>)

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DIMENSION (mm)

495 x 470 x 319

NET WEIGHT (kg)

18.3



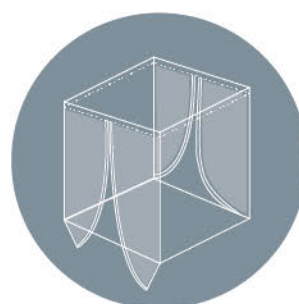


# NCCO ANTI-EPIDEMIC MOBILE CABIN

## DESCRIPTION

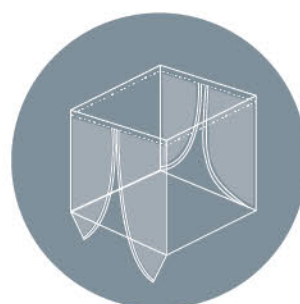
In response to the global pandemic, we developed the NCCO Anti-Epidemic Mobile Cabin. This innovative solution provides nursing homes with "isolation within the facility", reducing the risk of cross-infection among residents and easing operational burdens.

It can also serve as a safe space for staff dining and rests. With 14 rounds of air circulation every hour, the Extract Ventilation System minimizes the inflow of unfiltered air and the chances of airborne disease transmission, without increasing air conditioning costs or producing extra waste.



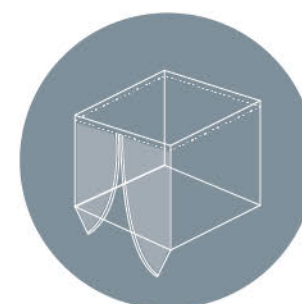
**MC-C180\***

\* Both sides can be opened at the same time



**MC-C160\***

\* Both sides can be opened at the same time



**MC-C150\***

\* One side can be opened

POWER SUPPLY (V/Hz)	220V~50-60Hz		220V~50-60Hz		220V~50-60Hz
POWER CONSUMPTION (W)	MAX. 40		MAX. 40		MAX. 40
DIMENSION (mm)	1880 x 2180 x 2100		1880 x 2180 x 1800		1580 x 2180 x 1800
MAX. VENTILATION VOLUME (hour)	~14h <sup>-1</sup> Max.		~16h <sup>-1</sup> Max.		~20h <sup>-1</sup> Max.
FEATURES OF NCCO ANTI-EPIDEMIC MOBILE CABIN	14 times air change pre hour (ACH)	Easy Reinstallation	Isolated Air Filtration	Isolation	H14 medical grade HEPA Filter
	Prevents cross infections with Extract Ventilation System.	It can be dismantled, stored, and re-installed in the future if needed.	Indoor air circulation without affecting outside room temperature and airflow.	Provides an isolated safe space in the Elderly Centres.	Captures viruses and bacteria as fine as PM0.3 standard.
ACCESSORIES	LED Light, Smoke Sensor (Optional Smart Version), Fire Extinguisher, Active Oxygen Generator (AOG10)				





# PUBLIC PLACE

RHT, through the use of NCCO (Nano-Confined Catalytic Oxidation) technology, is committed to improving the quality of life by enhancing the air we breathe daily. Our technology is widely utilized in public places, where it regulates air flow and boosts air purification.

## 01 ENTERTAINMENT VENUE

Our NCCO system purifies the air and decomposes pollutants, ensuring a memorable experience in a fresh environment.

## 02 HOTEL

It is vital to have adequate ventilation in public spaces where groups of various sizes gather. NCCO system filters the air, eliminates odors and germs thus reducing cross infection risk.

## 03 COMMERCIAL BUILDING

Commercial offices require highly efficient air purification and regulated temperatures, both of which are provided by our NCCO system.

## 04 CLUBHOUSE

Our technology purifies the air, promoting peace of mind in spaces where people gather to relax and unwind.





# PUBLIC FACILITY

Public facilities cater to a constant stream of people. The innovative NCCO technology of RHT ensures a high-quality experience through cutting-edge air treatment, providing healthy, clean air.

01

## PUBLIC LIBRARIES



Our NCCO system allows for ultra-quiet settings, ensuring both pure air and peace of mind.

01



02

02

## PUBLIC TOILETS



NCCO systems effectively remove bacteria and viruses, ensuring a clean-air and environment.



03

## SPORT CENTRES



Athletes and spectators are kept comfortable and safe within a clear-air environment, thanks to our NCCO technology.

03





# WASTE MANAGEMENT

NCCO system effectively eliminates odors and germs, allowing residents to co-exist comfortably with waste management facilities.



01

01

## REFUSE COLLECTION POINT

By eliminating bad odors, our NCCO system reduces the impact of waste facilities on local residents.

02



02

## GREASE TRAP

Circulating fresh, clean-air helps eliminate germs and odors, improving the environment.

03

## STORMWATER PUMPING STATION

NCCO system helps eliminate bacteria and viruses, ensuring a cleaner environment.



03



# INFECTION CONTROL

NCCO technology has proven effective in making our surroundings safe by removing bacteria and viruses from the air.

NCCO technology has proven effective in making our surroundings safe by removing bacteria and viruses from the air.

## NCCO VENT PIPE EXHAUST TREATMENT SYSTEM

### 01 REMOVES BACTERIA

- ▶ Our system has proven effective in the removal of bacteria and viruses, helping to eliminate the threat of large-scale spread of infectious diseases.



### 02 ELIMINATES LEAKAGE

- ▶ Easily installed vent pipes prevent the leakage of polluted, contaminated air.



## NCCO ANTI-EPIDEMIC MOBILE CABIN

### 01 HOSPITAL INFECTION CONTROL

- ▶ Our mobile cabin allows patients to be isolated from other residents, reducing the chance of cross-infections.



### 02 CARE AND ATTENTION HOMES ISOLATION SPACE

- ▶ We provide a safe space for dining and resting, lowering the risk of cross-family infections.





# CORPORATE SOCIAL RESPONSIBILITY



## ESG

Environmental, Social and Governance (ESG) sits at the very heart of RHT Industries Limited's operations, as we continue to push hard the air purification market towards technologies that protect the world and ourselves. Such an emphasis towards higher quality and efficiency is in our DNA through our ground breaking NCCO technology. This helps to lead various industries and our clients into a more conscious world which concerns itself with energy conservation, environmental protection, and human health.

RHT is committed to being a leader in this change for improved environmental protection in our fragile world. This can only be done through developing environmentally friendly, pollution-free scientific and technological innovations.



## AWARDS

RHT's work in developing the NCCO air purification system has been recognized by governments and by industry leaders, including:

### Home Journal (Best Air Purification System)

For the NCCO air purification system developed in cooperation with the members of the Hong Kong University of Science and Technology Entrepreneurship Program.

### Hong Kong Retail Technology Industry Association (Outstanding Anti-epidemic Technology Products)

A special recognition award to commend organizations that make good use of technology in business under adversity.

### Guangdong-Hong Kong-Macao Greater Bay Area Entrepreneur Union (Best Technological Innovation Award)

Dr. Cathy Jim, Director and Chief Technology Officer of RHT Industries, won the first "Youth Award" with the title of "Best Technological Innovation".

### InnoESG (Sustainable Technology Award)

Recognizing the company's efforts to promote sustainable technology.

### SDG Label (Good Health) and (Sustainable Cities and Communities)



2022 received Sustainable Technology Award



2022 received Awards and certifications about ESG and sustainability





# NCCO FOOTPRINT

## ► MEDICAL ORGANIZATION

TUEN MUN HOSPITAL	RUTTONJEE HOSPITAL	CARITAS MEDICAL CENTRE	ALICA HO MIU LING NETHERSOLE HOSPITAL	PAMELA YOUDE NETHERSOLE EASTERN HOSPITAL
HONG KONG BAPTIST HOSPITAL	HONG KONG ADVENTIST HOSPITAL	PRINCESS MARGARET HOSPITAL	QUEEN MARY HOSPITAL	YAN CHAI HOSPITAL JOCKEY CLUB CARE & ATTENTION HOME
UNITED CHRISTIAN HOSPITAL	PRINCE OF WALES HOSPITAL	ATHENS NAVAL HOSPITAL GREECE	THAILAND CHULALONGKORN UNIVERSITY	RESEARCH INSTITUTE UNIVERSITY OF MINHO PORTUGAL

## ► MTR PROJECT

MTR CORPORATION LIMITED (EAST RAIL LINE)	MTR CORPORATION LIMITED (KWUN TONG LINE)	MTR CORPORATION LIMITED (ISLAND LINE)	MTR CORPORATION LIMITED (MA ON SHAN LINE)	MTR CORPORATION LIMITED (TSUEN WAN LINE)
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## ► EDUCATIONAL ORGANIZATION AND PROJECTS

HONG KONG INSTITUTE OF VOCATIONAL EDUCATION	MARYKNOLL SECONDARY SCHOOL	CHRISTIAN & MISSIONARY ALLIANCE SUN KEI SECONDARY SCHOOL	THE UNIVERSITY OF HONG KONG	THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
THE CHINESE UNIVERSITY OF HONG KONG	CHRISTIAN ALLIANCE INTERNATIONAL SCHOOL	HONG KONG METROPOLITAN UNIVERSITY		

## ► GOVERNMENT AND PUBLIC FACILITIES

HONG KONG INTERNATIONAL AIRPORT	WEST KOWLOON CULTURAL DISTRICT AUTHORITY	HONG KONG CORRECTIONAL SERVICES DEPARTMENT	ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT	LEISURE AND CULTURAL SERVICES DEPARTMENT
HONG KONG POLICE FORCE	FOOD AND ENVIRONMENTAL HYGIENE DEPARTMENT	SINGAPORE MANDAI ZOO	SINGAPORE CHANGI AIRPORT	

## ► PRIVATE ORGANIZATION

HOPEWELL CENTRE	THE LANDMARK	MIRA PLACE	SUN HUNG KAI CENTRE	EXCHANGE SQUARE
MERCEDES-BENZ HONG KONG	AIA FINANCIAL CENTRE	AIA HONG KONG TOWER	HUNG TO CENTRE	INTERNATIONAL COMMERCE CENTRE
THE LEE GARDENS	GOOGLE			

## ► HOTEL PROJECT

MANDARIN ORIENTAL HONG KONG
NOVOTEL CENTURY HONG KONG
CHEUNG SHA WAN HOTEL

## ► PROPERTY DEVELOPER

WHEELLOCK PROPERTIES (HONG KONG) LIMITED	SUN HUNG KAI PROPERTIES LIMITED
HENDERSON LAND DEVELOPMENT COMPANY LIMITED	SINO LAND COMPANY LIMITED

## ► SOCIAL WELFARE ORGANIZATION

WEALTHY JADE CARE HOME	HONG KONG SHENG KUNG HUI
YAN CHAI NURSING HOME	PO LEUNG KUK





## HEADQUARTERS IN HONG KONG

UNIT 208-209, WIRELESS CENTRE, NO.3 SCIENCE PARK EAST AVENUE,  
HONG KONG SCIENCE PARK, SHA TIN, NT, HONG KONG

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RHT WEBSITE  
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