ReSPR™
TECHNOLOGIES

airandé
SUPERIOR DISINFECTION SOLUTIONS

ReSPR FLEX

OWNER'S MANUAL

www.airande.global

Before You Begin

1. This Appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the appliance.
3. This Appliance is only to be used with the detachable power supply unit provided.
4. The method, frequency of cleaning, and necessary precautions to be taken are explained in detail on pages 12 – 16.
    a. This Appliance must be disconnected from the supply before cleaning and maintenance.
    b. This Appliance contains a UV-C emitter.
    c. Unintended use of this Appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin.
    d. If this Appliance is obviously damaged it must not be operated.

Welcome

Welcome to ReSPR FLEX distributed exclusively by Airande.

ReSPR FLEX is designed to provide years of trouble-free service when it is properly maintained. Even when properly cared for, some parts of your ReSPR FLEX will need to be replaced periodically. Replacement parts can be purchased from your authorized distributor or directly from ReSPR Technologies. (www.resprtech.com)

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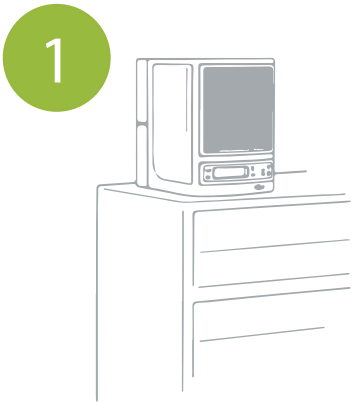
QUICKSTART

1. Place ReSPR FLEX on a counter top or shelf, not on the floor. Ensure there is room in front and back of the unit for air to flow through.

2. Plug the unit in with the included power cable.

3. Insert one lithium battery (CR20253V) inside the remote control.

4. Power on with the remote or by pressing the display screen then set the fan to a comfortable sound level. Leave the ReSPR FLEX in NORMAL Mode - Screen will read PCO (PhotoCatalytic Oxidation) or NCC (Natutal Catalytic Conversion). This is the standard mode for occupied rooms. HIGH mode, for burst disinfection, should not be used for more than one hour in occupied space.



5. Use the AWAY MODE for a higher level of disinfection when space is not occupied. Pressing the Away Mode key will start a timer (2 to 8 hours). The ReSPR FLEX will go back to Normal Mode when the timer ends or when you push NORMAL Mode again.

NEVER USE AWAY MODE WHEN ROOM IS OCCUPIED

Warnings

Review this list before using or performing any maintenance or cleaning of your unit.

WARNING: Never operate unit near a heat source, open flame or flammable/combustible fluids.

WARNING: Do not operate unit unless all parts (including Cell, Purification Plate, Rear Filter Assembly and Rear Cover) are properly installed.

CAUTION: Directly viewing the lamp inside unit for an extended period (longer than 20 min.) may result in eye damage.

CAUTION: Never adjust setting to exceed square footage of ventilated space being treated.

CAUTION: Do not use AWAY MODE in occupied spaces. Short term exposure to ozone levels exceeding 0.5 ppm can cause temporary adverse reactions.

CAUTION: Unit should be powered OFF and Power Cord should be disconnected when Cleaning/Disassembling/Reassembling/Servicing.

Set up and Operation

(Initial Setup)

Ideal Placement

- Make sure the location you choose is as close to an air supply duct as possible and as far away from the HVAC air return duct as possible. This will ensure that the oxidizing molecules produced by the ReSPR FLEX are optimally circulated.
- Each ReSPR FLEX can effectively treat 3,000 sq feet of space as long as there is air circulation in the space. Be sure doors are open in areas that you wish to treat.
- To ensure the unit works properly, there should be as much space as possible in front of your ReSPR FLEX so that It can efficiently process the air in the area.
- Place ReSPR FLEX on a shelf or counter top.
  Never place an operating unit on the floor.

Operating ReSPR FLEX

1. Connect the Power Cord to the Power Adapter and the Power Adapter Plug into the unit. (Check to be sure your power supply is properly assembled. The Power Cord should be inserted far enough into the Power Adapter so that a space of only about 1/8 in. is left between the widest part of the power cord and the edge of the Power Adapter).
2. Insert the Power Plug into the wall outlet.
3. Turn on the unit by pressing the POWER button and set it to NORMAL mode. The screen will read PCO (Photo Catalytic Oxidation) or NCC (Natural Catalytic Conversion). This is the optimal setting for running ReSPR FLEX continuously in your office or home. Adjust the fan to a comfortable sound level using the up and down buttons next to the display.
4. ReSPR FLEX comes with a remote control and one lithium battery (CR20253V) for easier operation when the unit is placed on a high shelf.

Operating Modes

Normal: Continual Usage: 24/7; High: Continual Usage: 24/7; Away: Limit to unoccupied spaces ONLY

When to use NORMAL Mode

- Normal mode should be the default mode for continually running your ReSPR FLEX in occupied space.

When to use HIGH Mode

- High mode is used for burst purification, removing pollutants like smoke or other significant odors. Do not run HIGH Mode for more than one hour with occupants in the room.
- When ReSPR FLEX is set to HIGH Mode the display will ask you to set the square footage. Press the PURIFIER button up or down to set the square footage of the room for the most effective treatment.

When to use SLEEP Mode

- Access sleep mode on your remote control. Activating this setting will dim the display screen settings.
-

When to use AWAY Mode

- AWAY Mode generates ozone for deep cleaning an area. This mode can be used for removing smoke, cooking odors, mold spores, viruses and bacteria. AWAY mode runs on a timer and once it completes the cycle, it returns to Normal Mode.
- Set AWAY Mode by pressing the AWAY Mode button. Each time you press the button it will increase the time of the cycle from 2:00, 4:00, 6:00 or 8:00 hours.
- If Away Mode is running when you enter the room, push the Normal/High button once to return to Normal Mode.

NEVER USE AWAY MODE IN OCCUPIED SPACES

Child Lock function

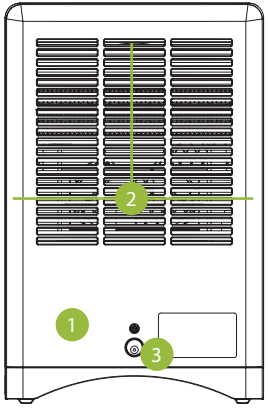
- Choose press the Away Mode button for 5 seconds to activate the lock function, press that button again to unlock the keypad.

Diagrams (Unit)

Front of Unit

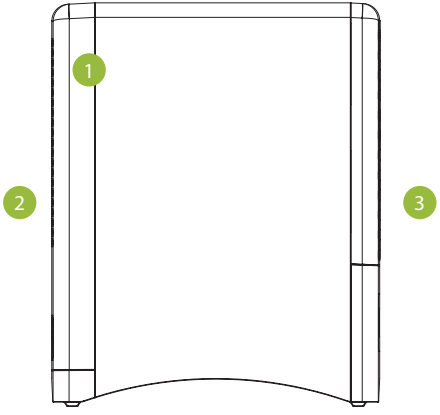
1. Ionization Needle
2. Front Grille
3. Control Panel

Rear of unit



1. Rear Cover Screw
2. Rear Cover Grooves
3. Power Adapter Inlet

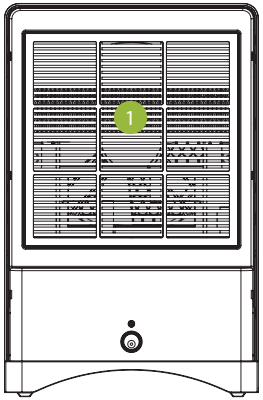
Side of Unit



1. Rear Cover
2. Unit Rear
3. Unit Front

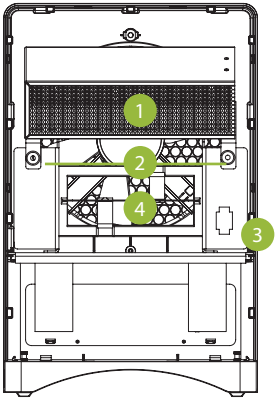
(Unit)

Rear of Unit
(Rear Cover Removed)



1. Filter Assembly

Rear of Unit
(Filter Assembly Removed)



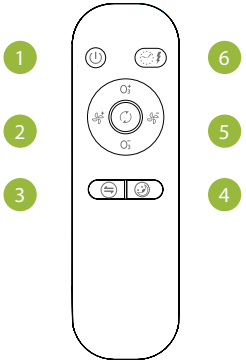
1. NCC Cell
2. NCC Cell Nuts
3. NCC Connector
4. Purification Plate

Power Supply

1. Power Cord
2. Power Cord Plug
3. Power Adapter
4. Power Adapter Plug

Diagrams (Controls)

Remote



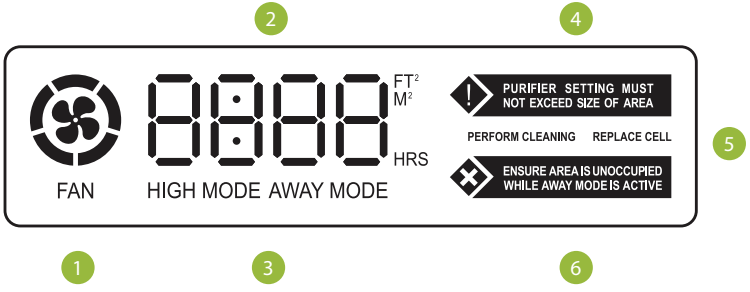
1. Power Button
2. Purification Level Control
3. m2 / ft2 Control
4. Sleep Mode Control
5. Fan Level Control
6. Away Mode Control

Control Panel

1. Power Button
2. Fan Speed Control
3. Purifier Level Control
4. Away Mode Toggle
5. Normal/High Toggle

(Controls)

Control Panel Screen



Mode Specific Display

1. Fan Speed Indicator
2. Mode Specific Display
3. Mode Indicator
4. Purification Level Warning
5. Maintenance Reminders
6. Away Mode Warning

3. Mode Specific Display
   Normal – Technology Indicator (NCC)
   High - Square Footage Indicator
   Away - Mode Duration Indicator (hours:minutes)

Routine Maintenance

To run efficiently, your ReSPR FLEX requires cleaning on a 60 to 90 day cycle. Every month the display will remind you to clean the unit. The best way to tell if the Filter Assembly needs to be cleaned is to check the front grill for dust. If the front grill is dusty, you should remove and clean the Filter Assembly. If the front grill is not dusty, you can press the Normal/High button for 3 seconds and you will be reminded again in 30 days.

To remove and clean the Filter Assembly you will need a #2 Phillips screwdriver.

Removing and Cleaning the Filter Assembly

1. Unit should be powered OFF and Power Cord should be disconnected when Cleaning/Disassembling/Reassembling/Servicing.
2. Grasp the top of the Filter, lift slightly and pull it away from the unit.
3. Thoroughly rinse the filter with warm water. Shake excess water from the filter and let it dry for an hour before reattaching it.

Removing the Rear Cover

1. Turn off the unit with the Power button.
2. Unplug the unit from the power source and then remove the power cord from the back of the unit.
3. Unscrew and remove the Rear Cover screw located above the Power Cord Port.
4. Slide the rear cover upwards and pull it out
5. Wipe the rear cover with a damp cloth and set to the side.

Reinstalling the Filter

1. The larger flat side of the Filter Assembly faces the interior of the ReSPR FLEX. A sticker reading, “Caution: Reinstall Filter After Cleaning” will be visible.

Removing and Cleaning the Front Grille

1. Locate the Front Grille Screw
2. Using your screw driver, carefully remove the Front Grille Screw. Place the Front Grille Screw where you will find them easily during reassembly.
3. Remove the Front Grille carefully to ensure that the Ionization Needle (in the top center of the front of the unit) is not damaged.
4. Clean the Front Grille using (compressed air, vacuum cleaner, damp cloth or warm soapy water) and set the Front Grille aside.
5. If the Ionization Needle is visibly dusty, gently clean it with a cotton swab and clear alcohol-based cleaner or rubbing alcohol.

Reattaching the Front Grille

1. Align the Front Grille to the front of the unit, being careful not to damage the Ionization Needle at the top center of the unit.
2. Insert the screw and tighten it all the way.

LCD Reminders

When your ReSPR FLEX unit is in need of maintenance, a message will display on the LCD screen. To reset any maintenance reminder on the unit, press the NORMAL/HIGH button for 3 seconds to eliminate the message.

- Perform Cleaning – this message will display every 30 days. Check to see if the front grill of the unit is dusty. If so, you will need to clean the filter as described in the Routine Maintenance section on page 12. You can eliminate this message after cleaning, by pressing the NORMAL/HIGH button for 3 seconds
- Replace NCC Cell – This message displays when the NCC Cell has reached the end of its useful life and needs to be replaced. To order a replacement, contact your distributor or ReSPR Technologies (www.resprtech.com). Follow the instructions included with your replacement part to replace your Purification Plate.

A message will display on the LCD screen when your ReSPR FLEX units needs maintenance.

Troubleshooting

The Unit Fails to Turn on

1. Verify that the Power Plug is plugged into an operational wall outlet.
2. Ensure that the Power Cord is fully inserted (leaving less than an 1/8”) to the Power Adapter.
3. Ensure that the Power Adapter Plug is fully seated in the receptacle on the back of the unit.
4. Verify the Power Button has been activated on the Control Panel.
5. If the Power Button on the Control Panel fails, use the Power Button on the Remote Control. If the Control Panel fails, contact your distributor or ReSPR Technologies (www.resprtech.com).

The Unit is Operating in High Mode or Away Mode, but No Noticeable Purification is Being Produced

1. Ensure that the Purification Plate is clean (See Step 4).
2. The Purification Plate may not be working because it needs to be replaced. Try installing a new Purification Plate.
3. Check the electrical contact arms which touch the plate to ensure that they are making proper contact with the metal weave on the Purification Plate.
4. Ensure the electrical contact arms which touch the plate are clean. Clean them with a soft cloth and rubbing alcohol.
5. Turn the lights off In the room and look through the Front Grille at the Purification Plate. If It is operating properly, it will produce a dim purple glow.

Removing and Cleaning the Purification Plate

1. Follow the instructions for removing the Rear Cover and Filter Assembly on Page 12.
2. Grasp the Purification Plate on the ceramic surface and gently pull it out of the grooves on the sides.
3. Using a 50/50 mix of warm water and clear ammonia, or in place of the water and ammonia mixture use 100% white vinegar, soak the Purification Plate for 8 to 10 hours. Do not exceed 10 hours. Using a soft bristled tooth brush, scrub the wire mesh to remove debris lodged inside the mesh. Rinse thoroughly. Allow the Purification Plate to dry completely before reinstalling.
4. Use a soft cloth and rubbing alcohol to clean the metal contacts that touch the Purification Plate.
5. Holding the Purification Plate by the ceramic, align it with the grooves on either side and slowly insert it into the Purification Plate Slot.

The Purification Plate Generates an Electrical Arc, an Arcing Noise or a Burning Odor

This means the Purification Plate is damaged and must be replaced. The unit may or may not display the Replace Plate LCD reminder. To order a replacement, contact your distributor or ReSPR Technologies (www.airande.global).

The NCC Cell Does Not Light Up

1. Ensure the NCC Cell Power Connector is properly seated in the NCC Cell Power Connector Outlet.
   a. Follow the instructions for removing the Rear Cover and Filter Assembly on Page 12.
   b. Check to see if the NCC Cell Power Connector is properly inserted in the NCC Cell Power Connector Outlet. To ensure the proper connection, gently push until the tabs at the top and bottom of the NCC Cell Power Connector snap into place, securing it to the NCC Cell Power Connector Outlet.
2. If the NCC Cell still fails to operate, it needs to be replaced. Contact your distributor or Airande www.airande.global).

Changing The Bulb

1. WHEN CHANGING THE BULB, read the maintenance Instructions BEFORE opening the Appliance
2. The Appliance MUST be DISCONNECTED FROM THE SUPPLY before replacing the bulb (I.e., the UV-C emitter)
3. Take the following precautions when replacing the bulb (UV-C emitter):
4. DO NOT operate the bulb (UV-C emitter) outside of the Appliance
5. Make sure that the Appliance is fully reassembled with the new bulb (UV-C emitter) securely in place
6. DO NOT Re-connect to the Power Supply until the Appliance has been fully reassembled.

Limited Warranty

Your ReSPR FLEX is warranted to be free from all defects in material and workmanship in normal household use for a period of (l) year from date of purchase. The warranty is granted only to the original purchaser and is subject to the following provisions. This warranty does not cover parts of the ReSPR FLEX that require replacement under normal use. This includes the purifier plate and rear filter assembly. Although the Cell requires periodic replacement, the cell is warranted for the same 1 year period as the purifier. Any damages or malfunctions caused by negligence, abuse, or use not in accordance with the Owner's Manual are not covered by this warranty. Likewise, any defects or damages caused by unauthorized service or the use of other than Genuine ReSPR parts are not covered. ReSPR Technologies will, at its option, repair or replace a defective ReSPR FLEX or part(s) for the ReSPR FLEX that is covered by this warranty As a matter of warranty policy, ReSPR Technologies will not refund the customer's purchase price.

To obtain warranty service you must return the defective ReSPR FLEX unit or parts along with proof of purchase to your ReSPR distributor. All transportation charges on parts, or units, submitted under this Warranty shall be borne by purchaser. Unless this Warranty is expressly renewed or extended by ReSPR Technologies, any repaired or replaced part of unit shall be warranted to the original purchaser only for the length of the unexpired portion of the original warranty. For additional service information, please visit us online at: www.airande.global

Further Limitations And Exclusions Are as Follows

Any warranty that may be implied in connection with your purchase or use of the ReSPR FLEX, including any warranty of merchantability or any warranty for Fitness For A Particular Purpose is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Your relief for breach of this warranty is limited to the relief expressly provided above. In no event shall ReSPR Technologies be liable for any consequential or incidental damages you may incur in connection with your purchase or use of the ReSPR FLEX. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Records

Purchase Date: _____

Model Number: ReSPR FLEX

Serial Number: _____

Distributor Name: _____

Distributor Phone: _____

Consumer Information

ReSPR Technologies and Airande decline all responsibility for all damages arising from improper use of the unit or in case of tampering with the unit.

Specifications

Unit

Power Consumption: 80W
Dimensions (in): 12 H x 9 W x 12 D
Dimensions (cm): 33 H x 27 W x 21.5 D
Weight (lb): 15.4
Weight (kg): 5
Max. Temp (F): 150
Max Temp (C): 65
Air Flow (cfm): 60
Effective Area: Up to 279 m2 I 3000 ft2

Power Cord

Fuyuang Switching Power Supply
Model: FY3803000
Input: 100-240VAC 50/60Hz 2.5A Output: 38VDC 3A
See the power supply label for certifications and warnings.

PCO/NCC Cell

Normal Mode Output

Purification Plate

High Mode Output: 25-360mg ozone per hour

Ionization Needle

24 to 30 KV, 20-30 Khz Ion Generation Pulsator
6 KV DC Needle Ion Generator

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