ReSPR ReSPR FLEX

ReSPR FLEX Air Purification System User Manual

Model: ReSPR FLEX

1. Introduction

The ReSPR FLEX is a compact, next-generation air purification system designed to improve indoor air quality. Utilizing advanced NCC (Natural Catalytic Conversion) technology, originally adopted by NASA for the International Space Station, it actively generates ions and ozone from ambient moisture and oxygen. This process effectively addresses viruses, bacteria, and other airborne contaminants, making your environment cleaner and safer. The ReSPR FLEX is suitable for areas up to 280 square meters (approximately 30 tatami mats).

Figure 1.1: ReSPR FLEX Air Purification System. This image shows the front view of the ReSPR FLEX unit, highlighting its compact design and control panel.

2. Safety Information

Please read all safety instructions carefully before operating the ReSPR FLEX. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not immerse the unit in water or any other liquid.
- Do not operate the unit with a damaged power cord or plug.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Ensure proper ventilation around the unit during operation.
- Do not block the air inlets or outlets.
- Unplug the unit before cleaning or performing any maintenance.
- 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.

3. Product Overview and Technology

The ReSPR FLEX utilizes NCC (Natural Catalytic Conversion) technology to purify the air. This innovative system actively releases purifying agents into the environment, rather than just filtering air that passes through the unit.

3.1 NCC Technology Explained

The core of the ReSPR FLEX is its NCC cell, which contains a broad-spectrum UV lamp and a special metal coating. When air, containing moisture (H_2O) and oxygen (O_2), passes through the cell, the UV light and catalytic surface react with these elements to produce various oxidizing agents, including hydroxyl radicals (OH^-), superoxide ions (O_2^-), and low levels of ozone (O_3).

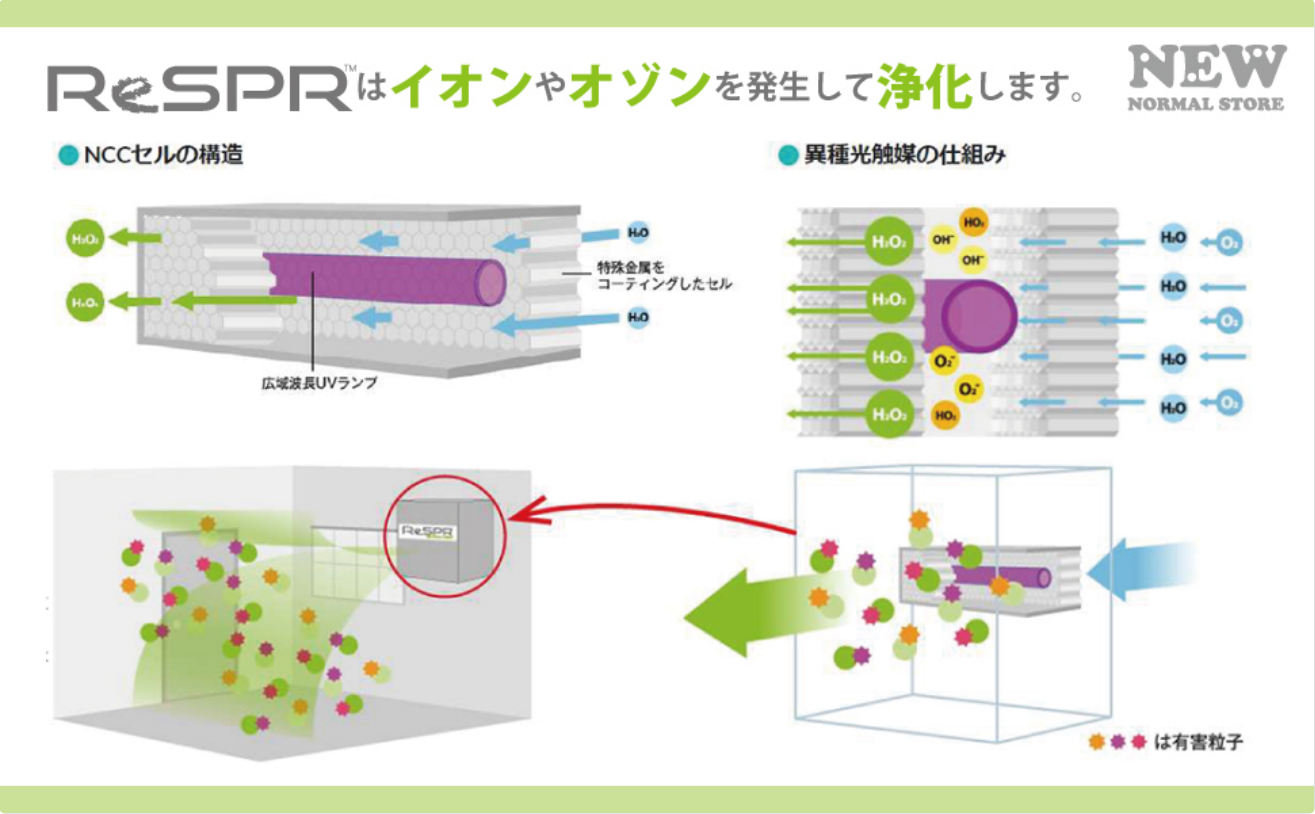


Figure 3.1: Diagram illustrating the NCC cell structure and the heterogeneous photocatalyst mechanism. The diagram shows how H_2O and O_2 enter the cell, react with the UV lamp and coated metal, and are transformed into purifying ions and ozone.

3.2 Active Air Purification

Unlike traditional air purifiers that rely on passive filtration, the ReSPR FLEX actively disperses these purifying agents throughout the treated area. These agents then seek out and neutralize contaminants in the air and on surfaces, including viruses, bacteria, mold, and odors.

Figure 3.2: Visual representation of the active air purification process. The image shows the ReSPR unit releasing purifying agents that spread throughout a room to neutralize harmful particles.

3.3 ReSPR is an Air Purification System, Not Just a Filter

It is important to understand that ReSPR FLEX is not merely an air filter. It is an advanced air purification system designed to actively clean the air and surfaces in your environment.

Figure 3.3: Image emphasizing that ReSPR is an air purification system, not just an air purifier. It shows the ReSPR FLEX alongside another ReSPR model, highlighting their function beyond simple filtration.

4. Setup

Follow these steps to set up your ReSPR FLEX unit:

1. **Unpack the Unit:** Carefully remove the ReSPR FLEX from its packaging. Retain the packaging for future storage or transport.
2. **Choose a Location:** Place the unit on a flat, stable surface in the area you wish to purify. Ensure there is adequate space around the unit for proper airflow. The ReSPR FLEX is versatile and can be used in various settings.
3. **Power Connection:** Plug the power adapter into the unit's power input, then plug the adapter into a standard electrical outlet.
4. **Initial Power On:** The unit may perform a brief self-check upon first power-on.

Figure 4.1: Examples of suitable environments for ReSPR FLEX installation, including restaurants, homes, hospitals, and schools, demonstrating its adaptability.

5. Operating Instructions

The ReSPR FLEX features a user-friendly control panel for easy operation.

- **Power Button:** Press the **POWER** button to turn the unit ON or OFF.
- **Fan Speed Control:** Use the **FAN** button to cycle through different fan speeds (e.g., Low, Medium, High) to adjust the purification intensity and noise level.
- **Mode Selection:** The unit may offer different operating modes such as **HIGH MODE** for maximum purification or **AWAY MODE** for enhanced treatment when the area is unoccupied. Refer to the display for current mode indication.
- **Display:** The digital display provides information such as current fan speed, operating mode, and maintenance alerts (e.g., "PERFORM CLEANING REPLACE CELL").

For optimal performance, it is recommended to operate the ReSPR FLEX continuously, especially in areas with persistent air quality concerns.

6. Maintenance

Regular maintenance ensures the longevity and efficiency of your ReSPR FLEX unit. The unit's display will indicate when maintenance is required, typically showing "PERFORM CLEANING REPLACE CELL".

- **Cleaning the Unit:**
  - Unplug the unit from the power outlet before cleaning.
  - Wipe the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- Gently vacuum or brush any dust from the air inlets and outlets.

- **Replacing the NCC Cell:**
  - The NCC cell has a limited lifespan and will need periodic replacement to maintain purification effectiveness.
  - When the display indicates "REPLACE CELL", order a genuine ReSPR replacement cell.
  - Refer to the detailed instructions provided with the replacement cell for proper installation.
  - After replacing the cell, reset the unit's maintenance indicator as per the instructions in the replacement cell manual.

7. Troubleshooting

If you encounter issues with your ReSPR FLEX, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power cord not properly connected.	Ensure the power cord is securely plugged into both the unit and a working electrical outlet. Check the power outlet with another device.
Air purification seems ineffective.	NCC cell needs cleaning or replacement; blocked air vents.	Check the display for "PERFORM CLEANING REPLACE CELL" message. Clean the unit and replace the NCC cell if indicated. Ensure air inlets and outlets are not obstructed.
Unusual noise from the unit.	Fan obstruction; unit not on a stable surface.	Check for any foreign objects obstructing the fan. Ensure the unit is placed on a flat, stable surface. If noise persists, contact customer support.

If the problem persists after trying these solutions, please contact customer support.

8. Specifications

Technical specifications for the ReSPR FLEX Air Purification System:

Feature	Detail
Brand	ReSPR
Model	ReSPR FLEX
Color	Black
ASIN	B08M3CNL2G
Applicable Area	Up to 280 (approx. 30 tatami mats)
Technology	NCC (Natural Catalytic Conversion)

8.1 Dimensions

Figure 8.1: Dimensions of the ReSPR FLEX (right) compared to ReSPR ONE (left). ReSPR FLEX dimensions are approximately 230mm (W) x 330mm (H) x 270mm (D).

9. Warranty and Support

For warranty information, technical support, or to purchase replacement parts (such as the NCC cell), please contact ReSPR customer service.

Contact Information:

Company: STS Co., Ltd.

Address: 141-0031 Tokyo, Shinagawa-ku, Nishi-Gotanda 1-26-2, Higashi-Gotanda Building 8F

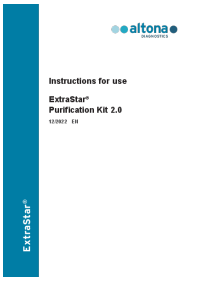
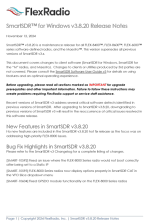
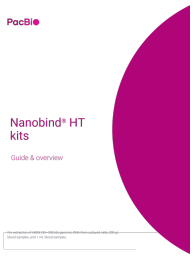
Phone: TEL: 03-6458-7317

Email: info@respr.jp

Website: https://respr.jp/

Please have your product model (ReSPR FLEX) and ASIN (B08M3CNL2G) ready when contacting support.

Related Documents - ReSPR FLEX

	[ReSPR FLEX Owner's Manual: Air Purifier Setup, Operation, and Maintenance] This owner's manual provides comprehensive guidance for the ReSPR FLEX air purifier, covering setup, operating modes, routine maintenance, troubleshooting, and warranty information from ReSPR Technologies.
	[ExtraStar® Purification Kit 2.0 Instructions for Use | altona Diagnostics] Comprehensive instructions for use for the altona Diagnostics ExtraStar® Purification Kit 2.0, detailing its intended use, kit contents, storage and handling procedures, product description, principle of method, sample types, warnings, step-by-step protocol for purification with the KingFisher™™ Flex system, performance data, disposal guidelines, quality control, troubleshooting, technical support, and literature references.
	[SmartSDR for Windows v3.8.20 Release Notes | FlexRadio] Official release notes for SmartSDR for Windows version 3.8.20, detailing bug fixes, important release details, best practices for installation and upgrades, and known issues for FlexRadio FLEX-8000 and FLEX-6000 series radios and Maestro.
	[PacBio Nanobind HT Kits: Guide and Overview for HMW DNA Extraction] A comprehensive guide to PacBio's Nanobind HT kits for high-molecular-weight (HMW) DNA extraction from various sample types including cultured cells, blood, and bacteria. Details automation platform compatibility, workflow, sample information, processing tips, and program scripts.
	[SmartSDR for Windows v3.9.19 Release Notes and Upgrade Guide] Official release notes and essential upgrade instructions for FlexRadio's SmartSDR for Windows v3.9.19, covering bug fixes, best practices, and licensing for FLEX-8000 and FLEX-6000 series radios and Maestro.
	[SmartSDR v3.8.21 Release Notes] This document provides release notes for SmartSDR v3.8.21, detailing new features, bug fixes, and important upgrade information for FlexRadio's software-defined radio clients, including SmartSDR for Windows, Maestro, and M-model radios.