

ProCozy Air™ Commercial Air Purification System Technical White Paper
Version 1.1

Manufacturer
Altrason Inc., Taiwan

Publisher
Chisir Electronics Corp., Taiwan
Global Brand Development & Technical Documentation

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1. Introduction

In commercial and professional environments, air quality is often treated as a problem that can be solved by short-term improvement.

In practice, the real challenge is not peak performance, but whether air purification can be carried out continuously, stably, and over long periods of operation.

In spaces with constant human activity and long operating hours, air quality is not a one-time outcome—it is a condition that must be maintained without interruption.

ProCozy Air™ was developed to address this fundamental requirement.

Rather than being a residential device optimized for intermittent use or short-term metrics, ProCozy Air™ is engineered as a commercial air purification system designed for continuous operation, enabling consistent removal of airborne particulates and contaminants in real-world commercial environments.

2. Product Positioning

ProCozy Air™ is positioned as:
A commercial air purification system designed for long-term, continuous operation.

The core objective of the system is sustained air purification, not short-term performance demonstration.

ProCozy Air™ is not classified as:

- A residential air purifier intended for intermittent use
- A dehumidification device
- An HVAC unit or an auxiliary airflow component

ProCozy Air™ operates as an independent air purification system, purpose-built to continuously maintain air quality in commercial environments, rather than serving as a supporting or supplementary device for other systems.

3. Why Continuous Air Purification Matters

In commercial spaces, air quality challenges do not arise from a lack of equipment, but from real operational conditions:

- Airborne contaminants are generated continuously
- Human presence and activity persist throughout operating hours
- Environmental loads accumulate over time

Under these conditions, air purification must be treated as an ongoing process, not a periodic action.

ProCozy Air™ is designed to ensure that air purification:

- Proceeds continuously
- Remains stable over long durations
- Does not rely on intermittent operation cycles

The system prioritizes environmental consistency over short-term numerical performance.

4. System Architecture Overview

ProCozy Air™ is built around a continuous air purification architecture, with multiple physical configurations available to accommodate installation requirements:

- LIR Series: Bottom Discharge / Bottom Intake
- SIR Series: Side Discharge / Side Intake (with optional duct connection)

All structural designs serve a single purpose: to support long-term, stable operation of the air purification process, ensuring that air is consistently delivered to the purification modules for treatment.

System architecture is not intended to address airflow challenges, but to sustain continuous purification performance.

5. Air Purification & Filtration Design

ProCozy Air™ employs commercial-grade air purification modules with configurable filtration options to meet different application requirements:

- MERV 11 filtration modules
- MERV 13 high-efficiency filtration modules
- MERV filtration combined with activated carbon modules for odor and chemical control

The filtration system is designed to maintain stable performance under continuous operating conditions, rather than emphasizing short replacement cycles or short-term efficiency claims.

Filtration modules are a core functional component, directly responsible for executing the air purification process.

6. Control & Operation

ProCozy Air™ is designed for commercial deployment and supports the following control methods:

- RS-485 communication interface for centralized monitoring or management systems
- Infrared control for local operation and service access

The control architecture prioritizes stability and simplicity, minimizing complexity to support long-term operational reliability.

7. Operational Philosophy

The operational philosophy of ProCozy Air™ is defined by:

- Continuous operation as a design baseline, not intermittent cycling
- Emphasis on long-term stability rather than peak short-term metrics
- Reduced system complexity to enhance durability and ease of maintenance

This approach ensures suitability for commercial environments requiring extended operating hours.

8. Application Scenarios

ProCozy Air™ is suitable for commercial and professional spaces that require sustained air quality maintenance, including:

- Commercial office environments
- Building public areas and open lobbies

- Retail and exhibition spaces
- Airports and transportation hubs
- Clinics and professional service environments
- Commercial public spaces with continuous human traffic
- Equipment or workspaces requiring long-duration air purification

9. Conclusion

ProCozy Air™ Commercial Air Purification System is not designed to solve airflow problems or to support other equipment.

It is an independent system engineered to continuously perform air purification in commercial environments.

By focusing on stability, durability, and sustained operation, ProCozy Air™ transforms air purification from a temporary action into a consistently maintained environmental condition.

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Published by: Chisir Electronics Corp., Taiwan

Prepared by: ProCozy Air™ Brand Operator (Chisir Electronics Corp.)

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