



# Bathroom IAQ Solution

Four-season auto fan (basic model)

Four-season + Dry pan (premium model)

A comfortable bathroom all year round

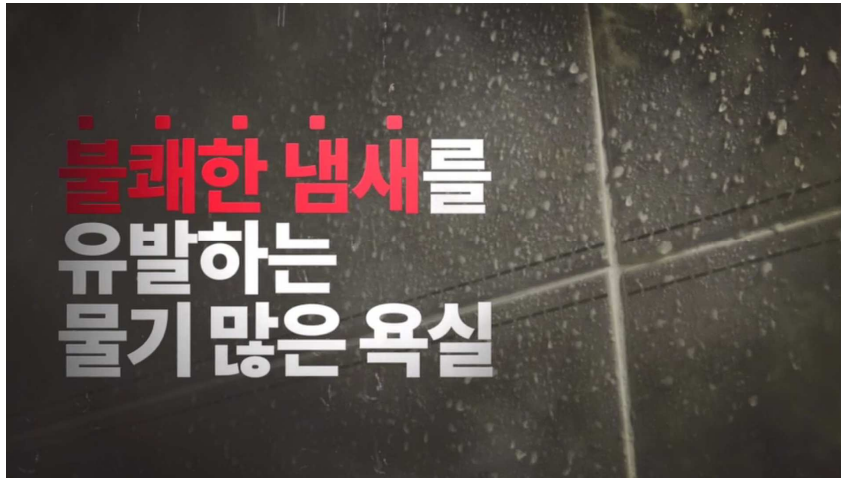
# Ontech Compound Ventilation Fan

## Contents

---

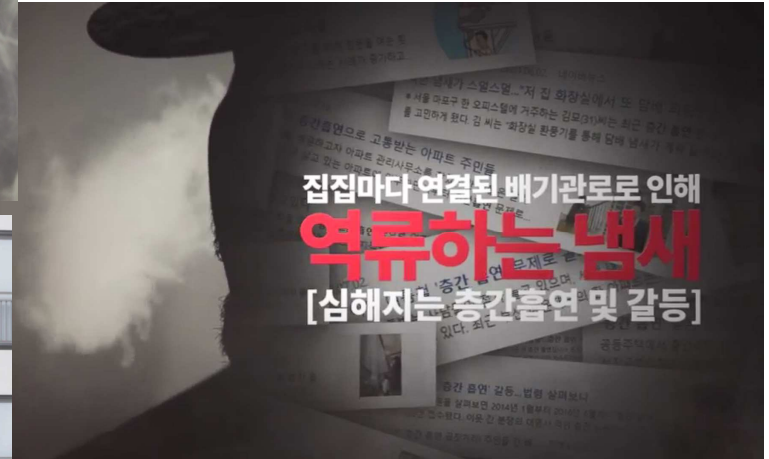
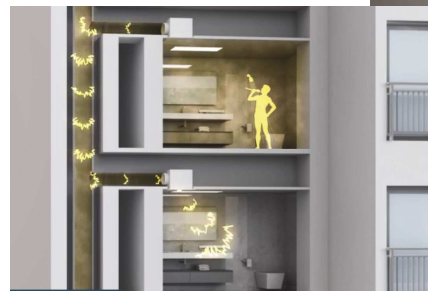
1. Bathroom Environment Status and Need for Improvement
2. Main Features of Four-Season Auto Fan (Basic Model)
3. Composition and Specifications of Four-Season Auto Fan (Basic Model)
4. Voice Recognition & Smart Mirror Integration (Optional)
5. Main Features of Four-Season + Dry Pan (Premium Model)
6. Composition and Specifications of Four-Season + Dry Pan (Premium Model)
7. Feature Comparison between Basic and Premium Models
8. Product Safety
9. Convenience of Installation and Maintenance
10. Recommended Installation Locations and Electrical Work
11. Key Performance and After-Sales Service Status

## A bathroom exposed to mold and bacteria



- ▶ Mold and various bacteria easily proliferate
- ▶ leading to unpleasant odors
- ⇒ The cause of mold and discoloration in the bathroom is humidity

## Intensifying inter-floor smoking and noise





- ▶ "Backflow of tobacco smell and foul odors through the air duct (AD)
- ▶ Persistent inter-floor noise issue






- ▶ The need for ventilation equipment capable of automatically adjusting airflow according to bathroom humidity
- ▶ The need for equipment with sterilization functions to reduce various molds and bacteria.
- ▶ The need for odor and noise blocking functions that are visibly confirmable by users
- ▶ The need for equipment with additional features such as body dryers, heaters, dehumidifiers, and voice recognition to enhance residential satisfaction.
- ▶ The need for equipment equipped with various safety features such as automatic shutdown functions.

## Exhaust through auto cover

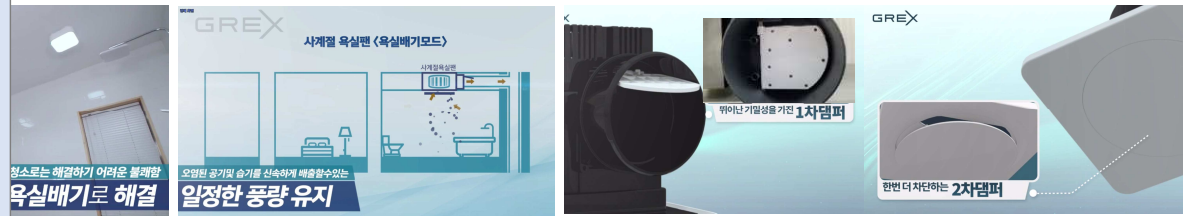
When the bathroom is not in use	When the bathroom exhaust is activated
	
Closing the exhaust intake vent	Opening the exhaust intake vent

## Ventilation & dehumidification functions

Body dryer	Heater	Dehumidifier
		
Drying hair and body after shower	Warm bathing during the winter season	Efficient simultaneous operation of rapid exhaust

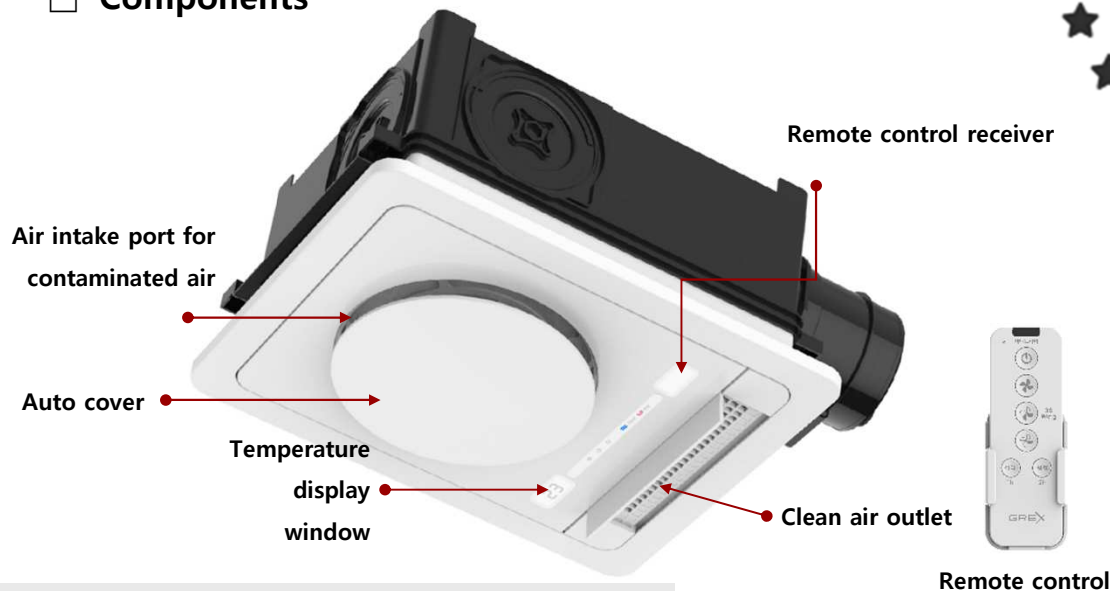


Auto cover	<ul style="list-style-type: none"> <li>▶ When the bathroom is not in use, the exhaust vent automatically closes, preventing equipment contamination by household dust.</li> <li>▶ Users can visually confirm the opening and closing of the exhaust vent, enhancing product reliability and promoting sales.</li> <li>▶ With a dual damper structure, complete prevention of noise and odor backflow.</li> </ul>
Ventilation	<ul style="list-style-type: none"> <li>▶ Hair &amp; Body Dryer: Swift moisture removal after showering to dry the body quickly.</li> <li>▶ Heater: Supply of warm air through internal heater during winter months.</li> <li>▶ Adjustable ventilation angle according to user's position and 3-level airflow control.</li> </ul>
dehumidification	<ul style="list-style-type: none"> <li>▶ Efficient moisture removal through simultaneous operation of rapid exhaust and ventilation.</li> </ul>





## □ Components

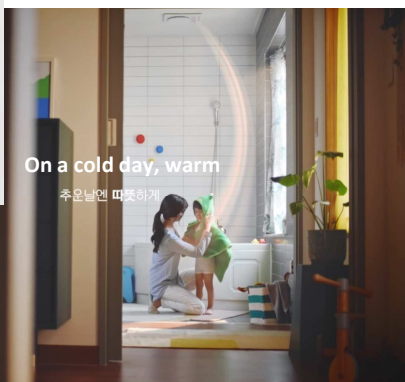


## □ Specifications

Product Name		Four-season auto fan		
Model No.		BD-150A		
Power Consumption(W)	Control	Weak	Medium	Strong
	Warm product	970	980	1250
	Blowing	6	8	27
Airflow(m <sup>3</sup> /h)	Exhaust air	10		
	Blowing/warm air	60	80	160
	Exhaust	90		
Motor		BLDC		
Safety Features		Automatic stop function, silicone insulation coating Bimetallic, Thermostat, Current Fuse Mains switch		
Product Dimensions(mm)		383(W) x 308(D) x 185(H)		

## □ Feature

- Energy saving by applying static air volume exhaust and BLDC motor
- Double dampers completely block noise and odor reflux
- Visual confirmation of opening and closing of exhaust vents by autocover is possible
- Hair & Body Dry Blow for quick drying
- Warm air supply by using PTC heater
- Adjust the blowing angle according to the user's position and adjust the air volume in 3 stages
- Efficient dehumidification with simultaneous operation of rapid exhaust and blowing
- Voice recognition and voice guidance / Human body detection / Control by touch (optional)
- Compact size for installation position and space securing glass
- Automatic stop function according to modes which can be used with peace of mind
- Antibacterial pre-filter that is easy to remove and reusable after washing




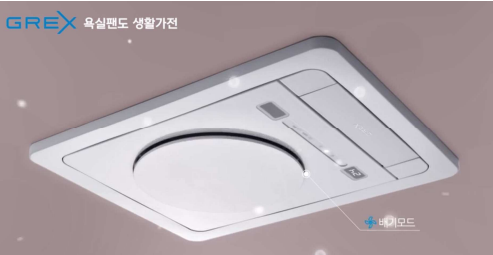


## Control by voice

By linking with the smart mirror, voice commands are recognized, and bathroom fan control and voice guidance are possible.

Voice Recognition	Voice guidance
 <p>"Hey Mirror! Turn on the heater"</p>	 <p>Start the hot air function</p>

## Control by human body detection and touch



When the human body is close to the smart mirror, the bathroom exhaust automatic operation / the bathroom exhaust and blowing mirror touch

Bathroom exhaust	Body Dry & Heater
 <p>[Ventilator Operation Button]</p> 	 <p>[Body Dry / Heater Operation Button]</p> 
<p>Automatic exhaust by human body detection or manual exhaust by mirror touch</p>	<p>Manual blowing by mirror touch</p>



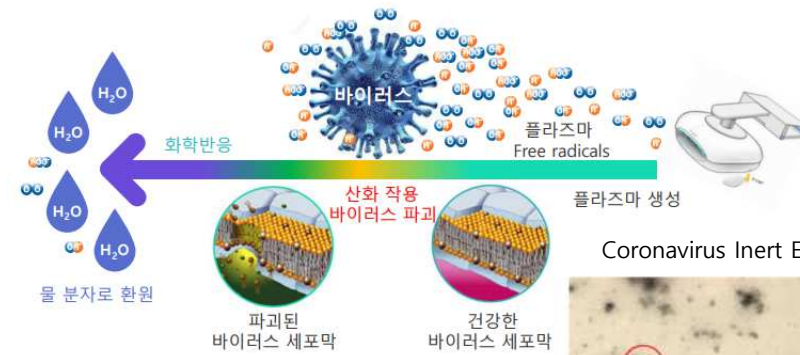


## Humidity Control Automatic Exhaust

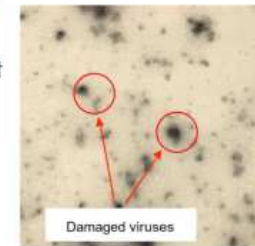
When maintaining proper humidity	When the appropriate humidity is exceeded
	
Low-speed operation <b>Solid blue LED</b>	The inlet is wide open / High-speed operation <b>Solid red LED</b>

Humidity Control Automatic exhaust	<ul style="list-style-type: none"> <li>▶ Humidity sensor automatic control exhaust allows you to adjust the exhaust speed according to the humidity change example</li> <li>▶ Saves energy by operating at low speed when maintaining proper humidity and operating at high speed when the appropriate humidity is exceeded. (When driving at high speeds, the intake is opened wider to provide powerful exhaust)</li> <li>▶ LED color change according to humidity (blue when proper humidity is maintained, red LED lights up when proper humidity is exceeded) and Temperature and humidity value display makes it easy for users to recognize bathroom humidity status</li> </ul>
Sterilization blowing & Sterilization	<ul style="list-style-type: none"> <li>▶ Plasma ion sterilization: Through the plasma ion module, the air during dehumidification and blowing Destroy bacterial particles and remove viruses and odors =&gt; can create a clean bathroom environment</li> <li>▶ Blower mode: Comfortable blowing by body dry or plasma ion sterilization when the heater is running</li> <li>▶ Dehumidification mode: Rapid exhaust and blowing simultaneous operation for efficient moisture removal plus plasma ions</li> <li>Sterilization is activated to prevent various viruses and mold and remove odors from toilets</li> </ul>

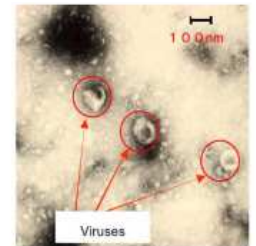
## Plasma ion sterilization



Coronavirus Inert Electron Microscope Imaging



Coronaviruses damaged and collapsed due to plasma exposure



Normal form of coronavirus



# Thank you.



**AiONTECH**

[www.ontechiot.com](http://www.ontechiot.com)

Wechat : SUNGBUMKONG

Clark Kong CEO.

[kongsungbum@gmail.com](mailto:kongsungbum@gmail.com)