



HueVen EBSN ,HueVen EBN User Manual

※ Type : Hueven EBSN / Hueven EBN

※ Model : HRD-EP50IBSN, HRD-EP100IBSN, HRD-EP150IBSN
HRD-EP100IBN, HRD150IBN, HRD-EP200IBN, HRD-EP250IBN

- Images and content in this manual may be changed without notice to improve product performance.
- Be sure to read the 'User Manual' before use.
- If you need product installation, please contact the supplier.
(If a problem occurs as the product is not installed by a professional installer,
there may be a trouble to have free service even within the warranty period.)
- Product specifications may be changed without prior notice to improve quality.

Product Features

Himpel ventilation system automatically measures indoor air quality to create a better indoor environment. It creates a clean indoor space by discharging indoor air pollutants (carbon dioxide, fine dust, harmful substances, etc.) outside and purifying outdoor air with a filter.



Ventilation Mode

It is the function that discharges indoor air pollutants outside and draws in outdoor air cleaned with a filter.



Auto Mode

It is the function that automatically cleans indoor air in Ventilation Mode according to indoor air pollution level.



Air Purification Mode (Optional)

It is the function that purifies fine particulates in indoor air and recirculates clean air indoors on days with severe dust and particulate matter.



Bypass Mode

It is the function that draws in clean air into the room by purifying outdoor air with a filter and without heat exchange when the outdoor temperature is similar to indoor temperature during spring and autumn.



Energy Saving

By recovering discharged cooling/heating energy during ventilation, cooling/heating costs can be reduced by 20% or more compared to regular ventilation.



High-performance Filter System

H13 rated HEPA filter removes particulate matter and harmful substances.



High-efficiency BLDC Motor

Incorporation of a high-efficiency BLDC motor the burden of electricity bills even if the product is used for 24 hours.



UV Sterilization (Optional)

It is the function that sterilizes various harmful bacteria (bacteria, fungi, viruses, etc.) in the air.

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※ Make sure to read the following before using the product to ensure proper use.



Warnings during Installation

*Failing to comply with the instructions may lead to user injury.

01

This product is designed for the Korean market.

Use AC 220V~240V/50Hz,60Hz

Using different voltage can cause product failure, electric shock or fire.

04

Make sure to install a circuit breaker and dedicated switch.

There is risk of fire and electric shock.

07

Have the product be installed by a professional with required certifications including an electrical license.

There is a risk of explosion, fire, electric shock and injury. Request installation by contacting the Customer Service Center.

02

Connect the product to a power outlet with circuit breaker rated 220V~240V/15mA or below.

There is risk of fire and electric shock.

05

Install the product at a location with a solid foundation capable of supporting the weight of the product.

There is risk of injury due to the product falling.

08

Do not install the product near the electric heater, fire source, flammable gases or flammable substances.

There is risk of explosion and fire.

03

Do not extend the power cord or connect it to a multi-outlet with other devices.

There is risk of fire and electric shock.

06

Do not allow a non-certified individual to disassemble, repair or modify the product.

There is risk of fire, electric shock, short circuit and injury.

09

To relocate or reinstall the product, contact the Customer Service Center.

There is risk of fire, electric shock, short circuit and injury.



Precautions during Installation

*Failure to follow instructions may result in injury or property damage.

01

Install an outdoor air cap with a bird barrier or equivalent facility.

Foreign substances such as a bird nest, blocking the air intake can cause performance issues.

04

Make sure to turn off the power when installing, repairing or servicing the product, and do not connect the power without the product being fully assembled.

There is risk of short circuit and electric shock.

07

Do not use the product to dehumidify hot and humid spaces.

There is risk of fire and electric shock due to high humidity air flowing into the product.

02

Do not install the product at a location with temperatures below zero.

Condensation may occur inside the main body or heat exchanger element, which can cause electric shock and abnormal operation.

05

Do not install the product at locations that require cooling throughout the year, such as machine rooms and computer rooms, or inside vehicles (camping cars), ships, etc.

Product reliability issues may occur due to the product being used in environments outside the product warranty.

08

Make sure to use accessories and rated parts for installation.

There is risk of performance issues.

03

If the power cord is damaged, contact the Customer Service Center for a replacement.

There is risk of fire and electric shock.

06

Do not bring the power cord close to high temperature, forcefully pull it, or damage it by placing a heavy object on it.

There is risk of fire and electric shock.

09

Turn off the power when thunder or lightning strikes or when the product is not used for an extended period of time.

There is risk of fire and electric shock.

※ Make sure to read the following before using the product to ensure proper use.



Precautions during Use

*Failing to comply with the instructions may lead to user injury.

01

If water or foreign substances enter the electrical parts of the product, turn off the power and contact the Customer Service Center.

There is risk of short circuit and electric shock.

02

If the product generates abnormal sounds, smell or smoke, immediately turn off the power and contact the Customer Service Center.

There is risk of fire and electric shock.

03

Make sure to turn off the power when replacing the filter and inspecting the product, and do not use an unstable pedestal.

There is risk of fire, electric shock and injury.

04

Do not use the product as ventilator for switch type heaters.

Make sure to use dedicated ventilation when using heaters, such as gas or oil stoves.

05

Store plastic packaging out of children's reach or promptly dispose them.

There is risk of suffocation by blocking one's nose or mouth due to the act of wearing it on one's head.

06

Do not apply excessive force or impact on, or pull the product.

There is risk of fire, failure and injury.

07

Make sure children cannot take the battery and swallow it by storing it out of their reach.

If a child swallows the battery, immediately seek medical attention.

08

Do not allow individuals (including children) who lack the physical or mental ability, or who lack the experience and knowledge to safely operate the product without supervision or instructions.

The product cannot be used safely without supervision or instruction from a guardian.

09

Do not block the air intake and exhaust vents with fingers or by inserting foreign substances.

There is risk of failure and injury.



Recommendations during Use

*Failure to follow the instructions may result in injury or property damage.

01

Do not spray water directly on the product, or clean it with benzene, thinner, alcohol, acetone, chemicals, etc.

There is risk of fire, deformation and discoloration.

02

Do not bend or fold heat exchanger element and filter during replacement.

There is risk of damage and poor assembly.

03

Do not clean the heat exchanger element and filter with water. Replace them regularly.

Accumulated dust can cause fire, performance issues and noise.

04

Do not place items around the inlet or outlet of the product.

There is risk of failure and injury.

05

Turn off the product before cleaning, and begin cleaning after the fan completely stops.

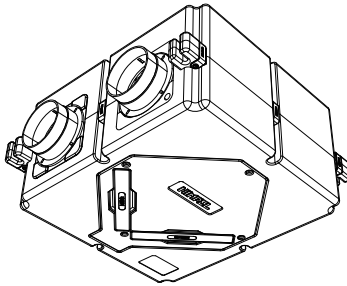
There is risk of failure and injury.

Product Structure

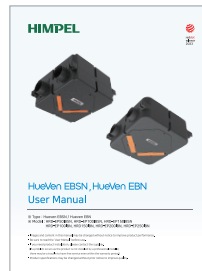
06

※ Check the package and confirm all items are included.

1 Product Structure

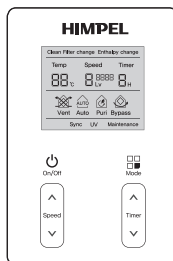


Main Body

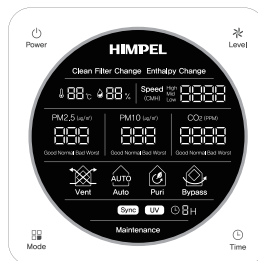


User Manual

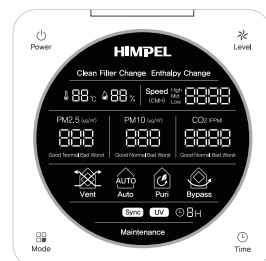
2 Remote Controller Structure



RJ2



RS2 (IoT Option)

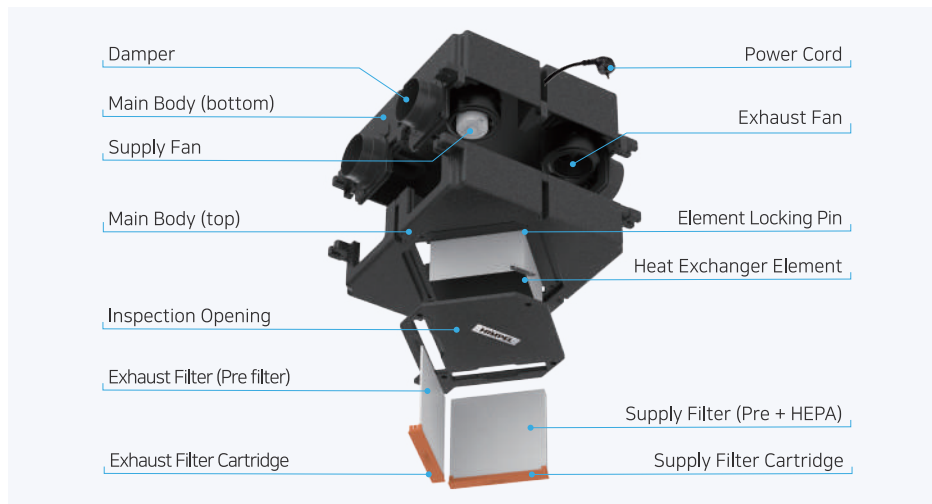


RS2 LED

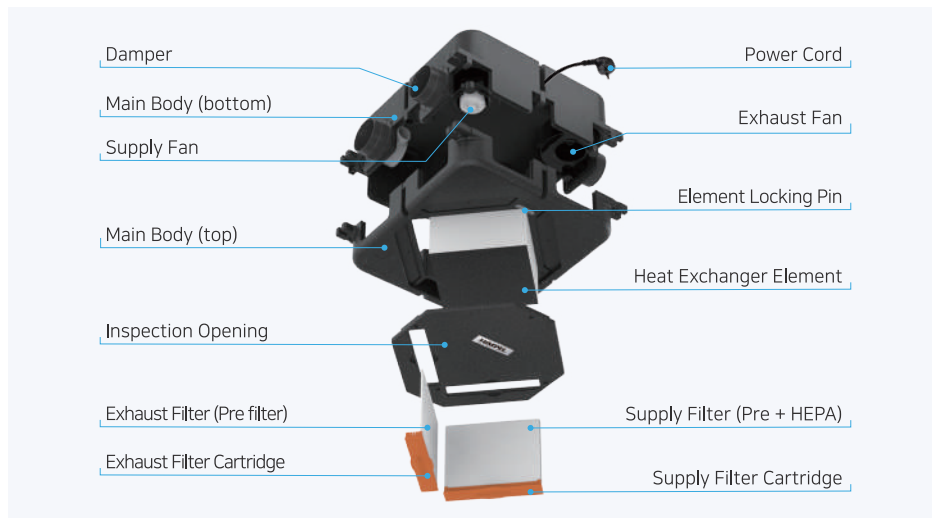
※ The following shows names of major parts of the product.

1 Product Name

Model : Hueven EBSN

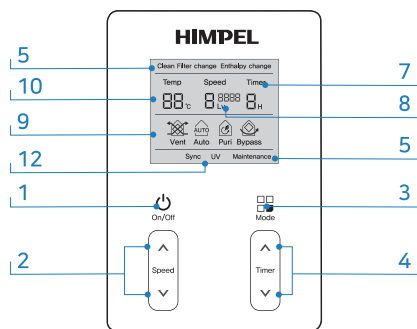


Model : Hueven EBN

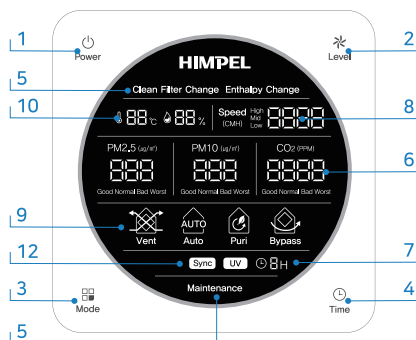


※ The following shows names of major parts of the product.

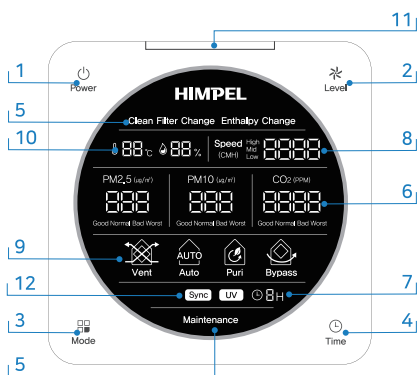
2 Remote Controller Buttons & Display



RJ2



RS2(IoT Optional)

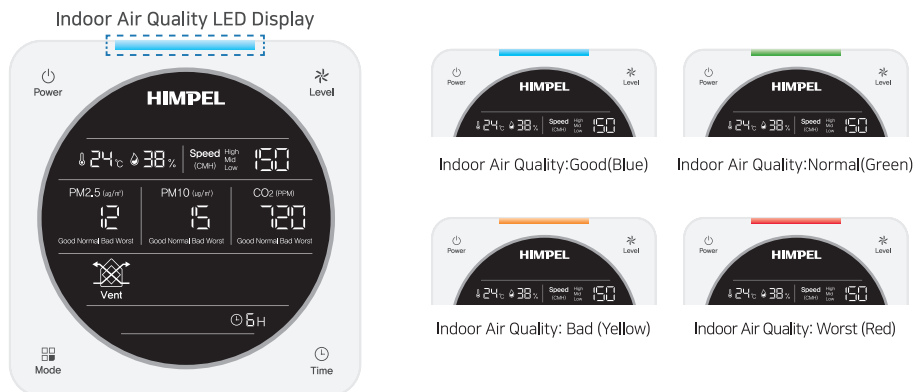


RS2 LED

- 1 Power Button 2 Air Volume Button 3 Mode Button 4 Timer Button 5 Maintenance & Filter Alarm
- 6 Indoor Air Quality Display 7 Reservation Time Display 8 Air Volume Display
- 9 Operation Mode Display 10 Temperature, Humidity Display 11 Indoor Air Quality LED Display
- 12 UV Sterilization Status & IoT Link Display

1 Indoor Air Quality LED Display / Criteria

Indoor air quality is monitored in real-time and is displayed through the LED display.



Type	Good	Normal	Bad	Worst
CO ₂ (PPM)	0 ~ 700	701 ~ 1,000	1,000 ~ 1,500	1,501 or higher
PM 10 (μm/m ³)	0 ~ 30	31 ~ 80	81 ~ 150	151 or higher
PM 2,5 (μm/m ³)	0 ~ 15	16 ~ 35	36 ~ 75	76 or higher
Physical Symptoms	Pleasant, normal breathing	Eye irritation. Sneezing	Headache, fatigue	Impaired concentration, vomiting

※ Note: PM10 and PM2,5 Criteria - Integrated Air Quality Index

※ The indoor air quality displayed on the remote controller may vary slightly depending on the installation location and environment.

※ The remote controller sensor varies depending on the remote controller, and only remote controllers with sensors can check indoor air quality.

※ The LED on the top of the RS2 LED remote controller changes color depending on the indoor air quality.

2 Auto Mode according to Indoor Air Quality

In Auto Mode, the operation mode changes according to the indoor air quality.

CO ₂ PM2,5 PM10	Good	Normal	Bad	Worst
Good	Stop	Air Purification / (Lv1)	Air Purification / (Lv2)	Air Purification / (Lv3)
Normal	Ventilation / (Lv1)	Ventilation / (Lv1)	Ventilation / (Lv2)	Ventilation / (Lv3)
Bad	Ventilation / (Lv2)	Ventilation / (Lv2)	Ventilation / (Lv2)	Ventilation / (Lv3)
Worst	Ventilation / (Lv3)	Ventilation / (Lv3)	Ventilation / (Lv3)	Ventilation / (Lv3)

※ If CO₂ and particulate matter values are both "Good," operation stops.

※ Models without Air Purification Mode will operate in Ventilation Mode.

※ The remote controller sensor varies depending on the remote controller, and the Auto Mode operation may vary accordingly.

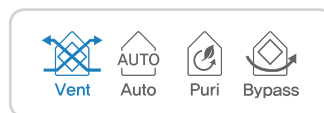
※ Make sure to read the following before use to ensure proper operation.

1 Ventilation Mode

1. Press the **[Power]** button of the remote controller to start Ventilation Mode.

- **Ventilation Mode** icon is displayed on the remote controller LCD display.

- Ventilation Mode initially starts with **[Lv1]** air volume setting.



[Ventilation Mode Display]

2. Press the appropriate **[Air Volume Setting]** button on each remote control to set the desired air volume.

- The air volume setting can be set in the order of : **Lv1 ▶ Lv2 ▶ Lv3**

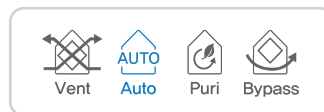
RJ2 Remote Controller			RS2/RS2 LED Remote Controller				
Speed 1 Lv Lv1	▶	Speed 2 Lv Lv2	Speed (CMH) Low Lv1	▶	Speed (CMH) Mid Lv2	▶	Speed (CMH) High Lv3

3. Press the **[Mode]** button on the remote controller to set the operation mode in the order of Ventilation Mode ▶ Ventilation (Auto) Mode ▶ Air Purification Mode ▶ Bypass Mode.

2 Auto (Ventilation) Mode

1. Press the **[Mode]** button of the remote controller and select Auto Mode.

- Auto Mode icon is displayed on the remote controller LCD display.
- Air volume setting is unavailable in Auto (Ventilation) Mode.



[Auto Mode Display]

2. To cancel Auto Mode, press the **[Mode]** button on the remote controller.

※ Auto (Ventilation) Mode Details

- 1) Air volume is set automatically according to the indoor air quality.
- 2) Models without carbon dioxide (CO₂) and particulate matter sensors repeat operation consisting of 20-minute "Lv1" air volume operation and 40-minute standby.

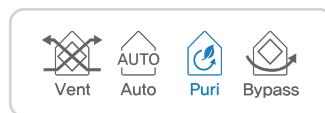
※ Make sure to read the following before use to ensure proper operation.

3 Air Purification Mode (Optional)

1. Press the **[Mode]** button on the remote controller and select Air Purification Mode.

- Air Purification icon is displayed on the remote controller LCD display.
- Press the Air Volume Setting button to adjust the air volume.
- Selecting UV Sterilization (Optional) will start UV sterilization during Air Purification Mode.

※ When UV sterilization is active, UV icon is displayed on the remote controller display.



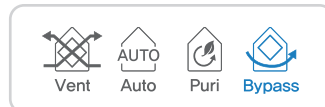
[Air Purification Mode Display]

2. To cancel Air Purification Mode, press the **[Mode]** button on the remote controller.

4 Bypass Mode

1. Press the **[Mode]** button of the remote controller and select Bypass Mode.

- **Bypass** icon is displayed on the remote controller LCD display.
- Bypass Mode only operates in air volume **[Lv1]** setting.



[Bypass Mode Display]

2. To cancel Bypass Mode, press the **[Mode]** button on the remote controller.

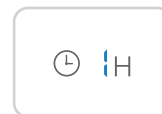
5 Reservation Time Setting

1. Press the **[Timer]** button on the controller to set the reservation time.

- 1) The set reservation time is displayed on the remote controller LCD display.
- 2) Reservation time is set in the order of 1h ▶ 2h ▶ 3h ▶ OFF.
- 3) Timer function automatically shuts down the product after the set time.



[RJ2 : Reservation 1H]



[RS2 : Reservation 1H]

* Reservation setting is available in all modes except for Auto Mode.

※ Regularly clean the filter to prevent performance issues in the ventilation system.

! Filter Cleaning & Replacement Interval

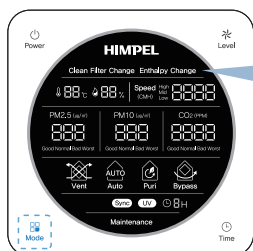
* Cleaning and replacement intervals of the filter and heat exchanger element may vary depending on the environment and management.

Type	Cleaning Interval	Replacement Interval
SA, EA Pre-filter	About 2,000 hours (about 3 months)	About 4,000 hours (about 5 months)
Hepa-filter	-	60%~70% filter contamination (about 3 ~ 6 months)
Enthalpy exchanger	-	About 20,000 hours (about 2 years 3 months)

* Based on 24-hour operation per day

! Filter Notification & Notification Removal

* Remove the filter notification after filter cleaning and replacement.



[Example: RS2 Remote Controller]

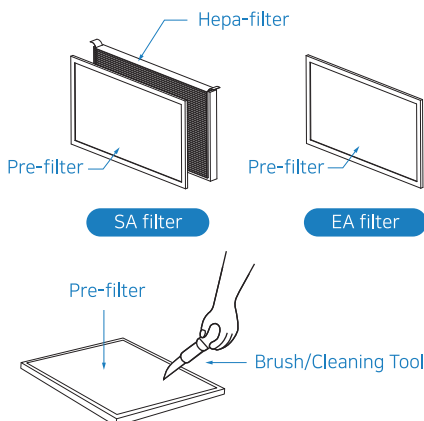
If [Filter Cleaning & Filter/Element Replacement] notification is displayed, remove the notification through the following.

[Remote Controller Filter Notification Display Removal]

- RJ2, RS2 Remote Controller: With the product set to OFF, press and hold the [Mode] button for more than 3 seconds.

! Filter Cleaning

* Cleaning and replacement intervals of the filter and heat exchanger element may vary depending on the environment and management.



- Gently Shake off dust from the pre filter and use a vacuum cleaner to clean it. It is recommended to replace the HEPA filter, deodorization filter and heat exchanger elements. (Clean the filter every 3-6 months to ensure product durability.)
- If the pre filter accumulated excessive amount of dust, gently wash it off using lukewarm water with a neutral detergent. However, be careful not to rub the filter as it may damage the filter, and after washing, dry it completely in the shade and attach to the product.
- To prevent performance issues, periodically clean the filter and replace the filter and heat exchanger element.

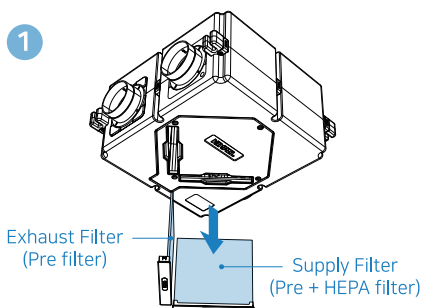
※ If the filter is severely damaged or contaminated, purchase a new one from the Himpel website. (www.himpel.com)

※ Turn off the power of the product before removing the filter or heat exchanger element.

! Filter/Element Detachment

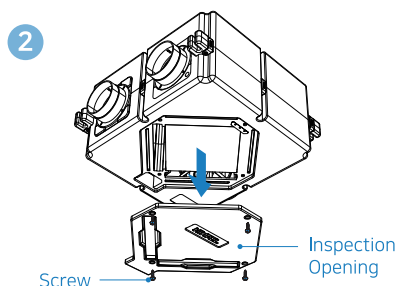
※ When attaching the filter, make sure to insert the supply/exhaust filter in the correct location as shown below.

※ Product : Hueven EBSN

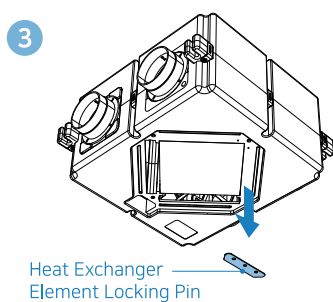


- Hold the supply filter and exhaust filter cartridge and pull it downwards to detach it.

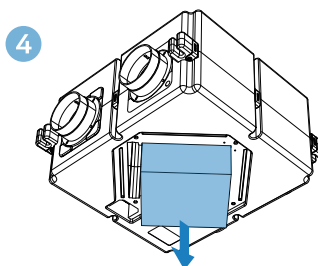
※ Insert the HEPA filter in the supply filter.



- Remove the 4 screws on the inspection opening and pull it downwards to detach.



- Before removing the heat exchanger element, remove 2 screws on the locking pin holding the heat exchanger element.



- Hold the heat exchanger element handle and pull it downwards to detach.

※ Be careful of the heat exchanger element falling when removing it.

Product Specification

14

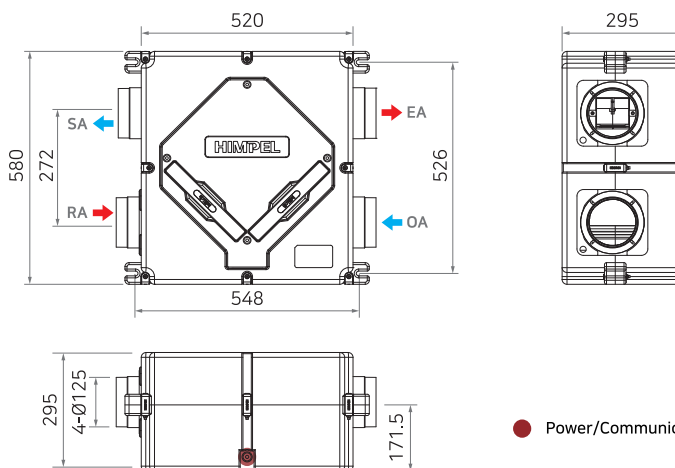
※ Product size and performance may change without notice to improve product quality.

1 Product Specification

Model	HRD-EP50IBSN	HRD-EP100IBSN	HRD-EP150IBSN
Voltage Spec.	220V~240V / 50Hz, 60Hz		
Air Volume (CMH)	40 / 50 / 70 (Lv1/Lv2/Lv3)	80 / 100 / 110 (Lv1/Lv2/Lv3)	130 / 150 / 160 (Lv1/Lv2/Lv3)
Power Consume (W)	18 / 25 / 28 (Lv1/Lv2/Lv3)	31 / 34 / 41 (Lv1/Lv2/Lv3)	45 / 55 / 62 (Lv1/Lv2/Lv3)
Noise (dB)	50 or less		
Filter	SA	Pre (240 X 244 X 5T) 1EA + HEPA (240 X 242 X 20T) 1EA	
	EA	Pre (240 X 244 X 10T) 1EA	
Energy saving rate (%)	Heating 82, Cooling 72	Heating 77, Cooling 60	Heating 72, Cooling 58
Product size (mm)	580 (W) X 520 (D) X 295 (H)		
Duct size (Ø)	EA, OA, RA, SA : Ø125		
Weight (kg)	8		
Option	Wired Remote Controller, Air Purification Mode, UV Sterilization		

2 Product Size

* Dimension Unit : mm



● Power/Communication Cable

Product Specification

15

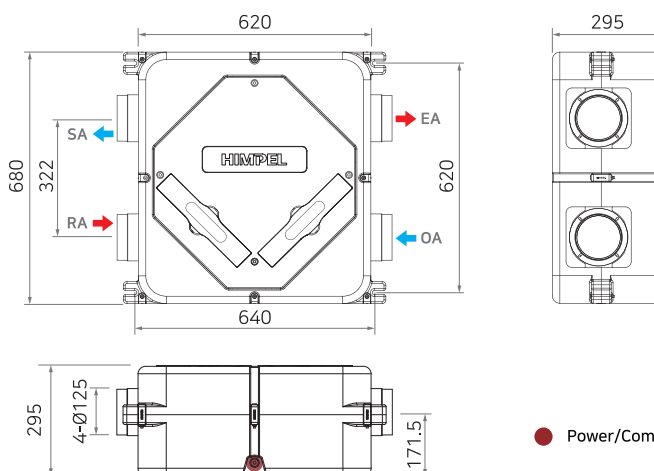
※ Product size and performance may change without notice to improve product quality.

1 Product Specification

Model	HRD-EP100IBN	HRD-EP150IBN	HRD-EP200IBN	HRD-EP250IBN
Voltage Spec.	Ø1 X 220V~240V / 50Hz, 60Hz			
Air Volume (CMH) (Lv1 / Lv2 / Lv3)	70 / 100 / 110	110 / 150 / 160	150 / 200 / 220	150 / 250 / 270
Power Consume (W) (Lv1 / Lv2 / Lv3)	23 / 30 / 33	37 / 56 / 62	56 / 112 / 118	56 / 116 / 128
Noise (dB)	50 or less			
Filter	SA	Pre (296 X 246 X 5T) 1EA + HEPA (296 X 243 X 40T) 1EA + Deodorization (296 X 243 X 10T) 1EA		
	EA	Pre (296 X 246 X 30T) 1EA		
Energy saving rate (%)	Heating 78, Cooling 73	Heating 77, Cooling 67	Heating 78, Cooling 73	Heating 72, Cooling 58
Product size (mm)	680 (W) X 620 (D) X 295 (H)			
Duct size (Ø)	EA, OA, RA, SA : Ø125			
Weight (kg)	9			
Option	Wired Remote Controller, Air Purification Mode, UV Sterilization			

2 Product Size

* Dimension Unit : mm



● Power/Communication Cable

※ In case of a product issue, please check the following before requesting service by contacting the Customer Service Center.

Product Issue Checklist

Q. The product does not operate.

A. If the power cord is not connected, the product will not function properly.

Make sure the power cord is plugged into a power outlet properly.

Q. The product does not ventilate well.

A. 1) If the filter/heat exchanger element is not properly attached, the product performance will be poor.

Make sure the filter/heat exchanger element are attached properly.

2) If the filter has not been cleaned for an extended period of time, and if the filter is severely contaminated, product performance will be poor.

Clean the filter/heat exchanger element before operating the product.

Q. The product makes too much noise.

A. 1) If the product is not installed properly, the product may generate noise.

Make sure the flexible duct and electric damper are attached properly.

2) If the filter is not attached properly, the product may generate noise.

Make sure the filter is attached properly.

Q. The air volume cannot be adjusted.

A. 1) In case of Auto Mode, wind volume cannot be adjusted because the mode operates automatically according to the sensor.

Ventilation Mode allows air volume adjustment.

2) In case of Auto Mode, models without an indoor air quality sensor repeats "Lv1" air volume for 20 minutes ► standby for 40 minutes.

Models without indoor air quality sensors in Auto Mode repeat operation and standby, and such is not a product failure.

! Product Issue Checklist

Q. The product turns off during operation.

A. 1) In case of Auto Mode, the product does not operate when the CO₂ and particulate matter dust concentration indoors are good.

[Set the product to operate in Ventilation Mode.](#)

2) In case of Auto Mode, modes without indoor air quality sensors repeats "Lv1" air volume for 20 minutes ► standby for 40 minutes.

[Models without indoor air quality sensors in Auto Mode repeat operation and standby, and such is not a product failure.](#)

3) If reservation time is set, the product operates for the set time and shuts down automatically.

[In this case, turn on the product again.](#)

! Error Notification

※ Error notifications can be checked on the wired remote controller.

If the inspection display and error code are displayed, check the following error code list and contact the Customer Service Center.

E02 : Temperature and humidity sensor E05 : Heat exchanger element replacement

E06 : CO₂ sensor E07 : Internal communication E08 : PM sensor

E09 : SA (fan) motor E10 : EA (fan) motor COLD : Equipment protection mode

MEMO

HIMPEL

Product Warranty

About Product Services

HIMPEL provides product warranty as grounds mentioned below under Consumer Compensation for Damage Regulation. HIMPEL Co. Service or dedicated cooperative companies will provide customer service when requested. Compensation acceptance notification is provided within 7 days and actual compensation for the damage is provided within 14 days.



**Warranty period
of total heat exchanger
is 1 year and part
retention period is
5 years.**

Product Name		Model Name	
Purchase Date		Purchasing Price	
Store where Purchased			

Customer Service

You have a right to be entitled for free of charge 1 year guaranteed service if damage occurs when using the product. However, if the damage was caused by customer fault or natural disaster, the service will be provided of charge even during the free of charge guarantee period.

A/S fee consists of technical fee, price of the parts, and visitation fee.

1. Technical fee refers to an expense occurring for diagnosis, repair or change of broken parts, adjustment, and inspection after completion of repair.
2. Price of parts refers to parts or additional material used for repair.
3. Visitation fee refers to an expense occurring for A/S technician to visit the site as per the request from the customer.

Free of Charge Services

During guaranteed service period, repair or change of device/product caused by its defect is provided for free of charge, excluding customer fault caused by negligence.

Below grounds show applicable cases for free of charge services.

1. Excessive noise caused by unbalanced fan or any other odd conditions
2. Remote control display not matching with actual operation of the product
3. Fan not operating properly even when the power on

Services of Charge

1. Abnormality occurred caused by removing and reassembling of parts on the customer's own
2. Product damaged by missing wiring
3. Change of filters or grill cover of enthalpy exchanger
4. Routine inspection and repair



HIMPEL Co., Ltd.

5, Annyeongnam-ro, Hwaseong-si,
Gyeonggi-do, 18364, Korea
sales@himpel.co.kr

* Product specifications and performance may be changed
depending on quality improvement or
installation environment without notice.