

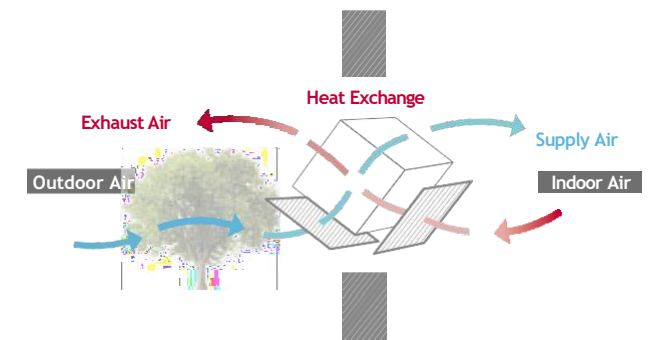


**VENTILATION
SOLUTIONS**



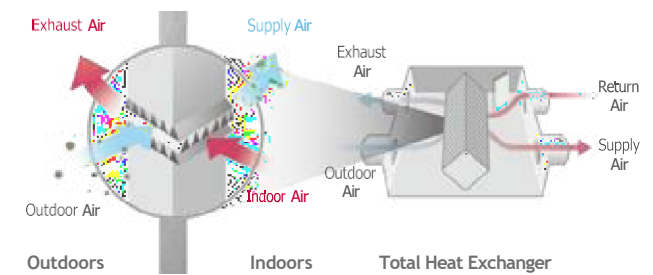
High Efficiency Heat Exchanger

Efficiency and comfort is ensured through the high-efficiency energy recovery central core. This recovers energy from outgoing indoor air and transfers it to the fresh incoming air without mixing the air stream.



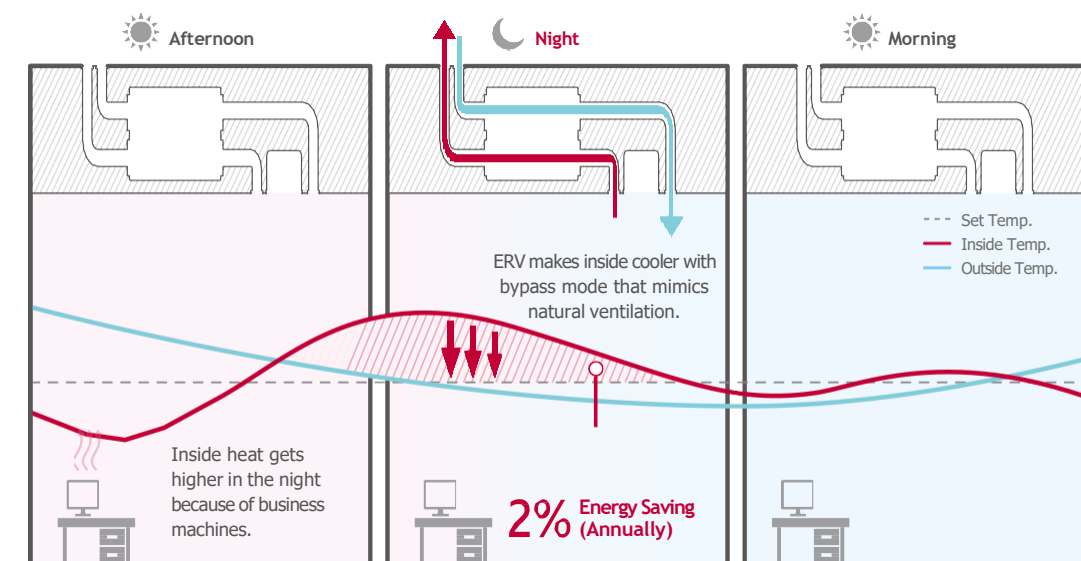
Cross Flow System

The exhaust system uses a high static sirocco fan to remove stale indoor air. Supply and exhaust air flows are completely separated in the heat exchanger, allowing the LG ERV to filter out particles before supplying outdoor air to ensure indoor air is fresh and healthy.



Night Time Free Cooling

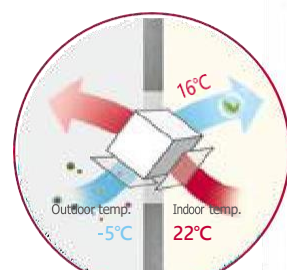
During summer nights, indoor heat can be discharged outdoors and cool outdoor air can be brought indoors for energy savings.



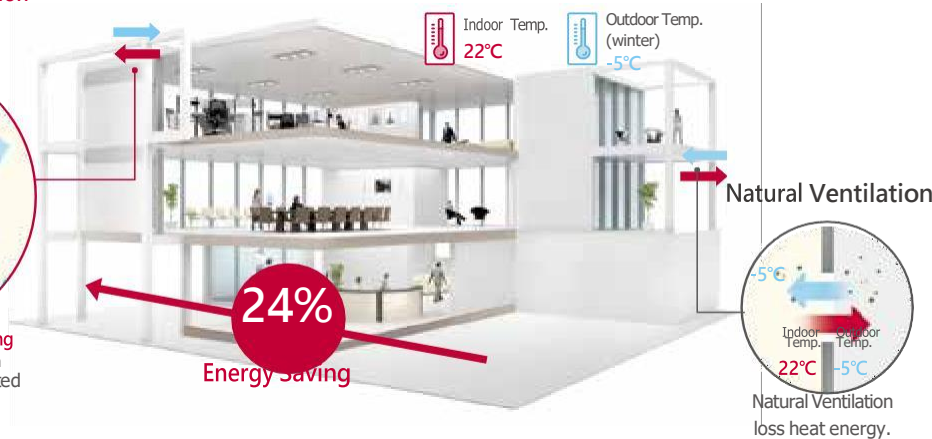
※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition
- Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM.

Necessity of ERV

Energy Recovery Ventilation (ERV)



Comfort Air + Energy Saving
Compared to natural ventilation
Heat exchanger collects wasted
energy while ventilating.

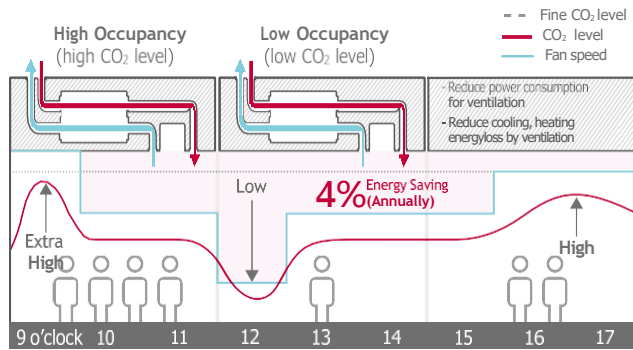


Natural Ventilation
loss heat energy.

CO₂ Auto Operation

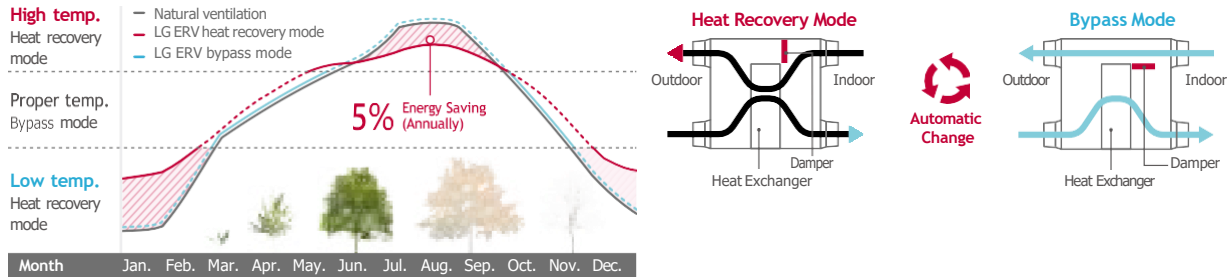
LG ERV reduces energy loss with auto fan speed control following CO₂ level.

※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM



Seasonal Auto Operation

LG ERV senses outdoor temperature and operates automatically following weather conditions.

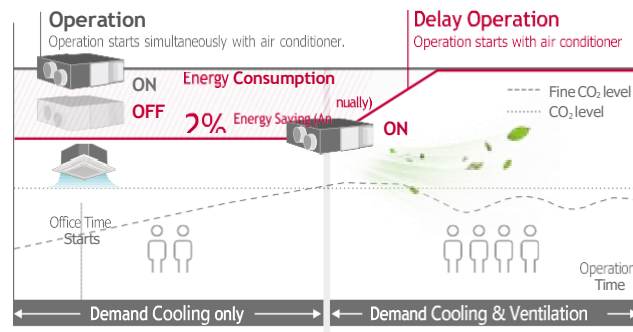


※ This function is operated with 'Auto' mode by wired remote control.
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1,000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

Delay Operation

When the air conditioner and ERV are switched on simultaneously, delayed operation can reduce unnecessary heating and cooling energy loss by slowing down automatic ERV operation.

※ This function is operated with 'Night Time Free Cooling' on remote controller. (with MULTI V only)
※ Energy saving ratio can be differed by weather condition.
※ Test Condition - Office (49,000ft²) / Occupancy : 30 / Area : London, UK
- ERV (1000 CMH) + MULTI V 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

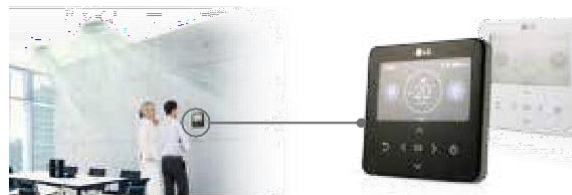


CO₂ Level Monitoring

CO₂ sensor senses CO₂ level in the room. Users can monitor CO₂ level on new wired remote controller, and ERV controls the fan speed automatically following the level.

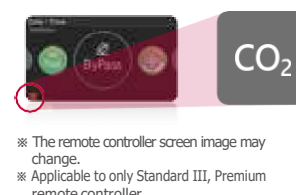
CO₂ Level Visualization

CO₂ sensor senses indoor CO₂ level and displays it on a new wired remote controller.



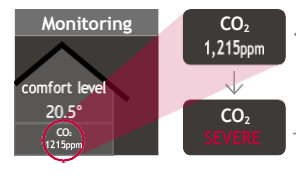
Main Display

If the CO₂ level is above 900ppm in the room, the red mark appears.



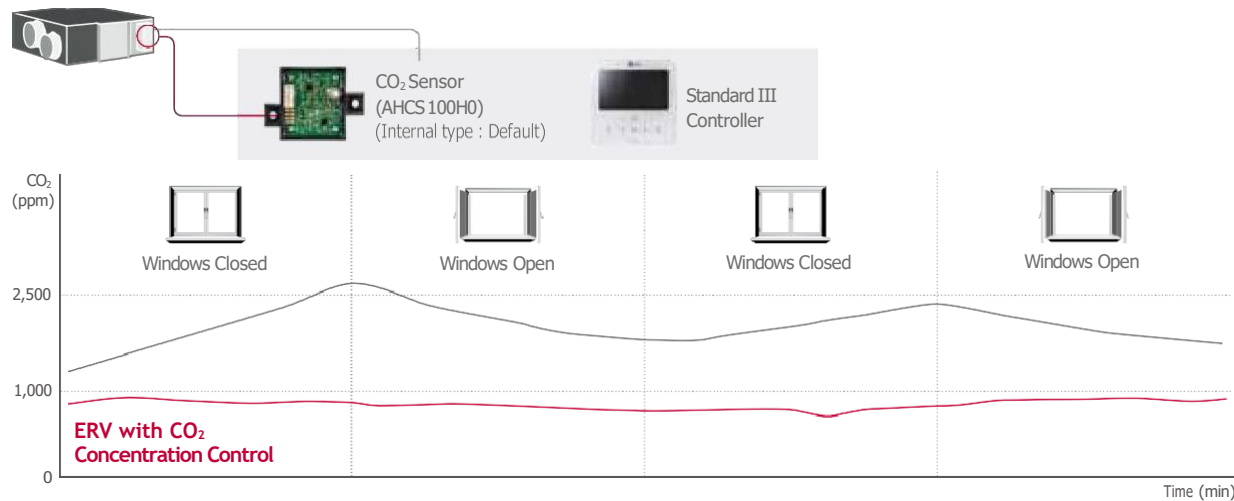
Further Information

CO₂ level and room condition are displayed continuously.



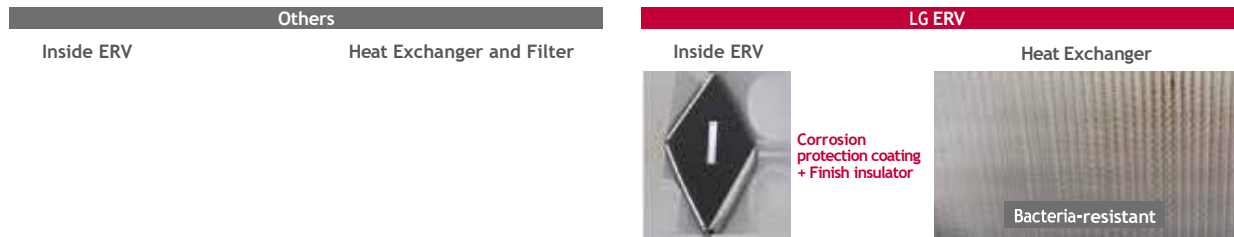
CO₂ Concentration Control

Using CO₂ sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO₂ concentration.



High Durability

There is no moving part within the heat exchanger and therefore it has higher durability and reliability. The heat exchanger is made of special thin paper membranes which are bacteria-resistant to prevent harmful bacteria growth, and flame-retardant treated for fire safety.



Easy Control

The wired remote controller is easy to use.



Easy

- Navigation buttons, easy to use.
- Simple installation setting



Display

- Indoor CO₂ level
- Alarm for filter change / remaining time to change filters



Convenient

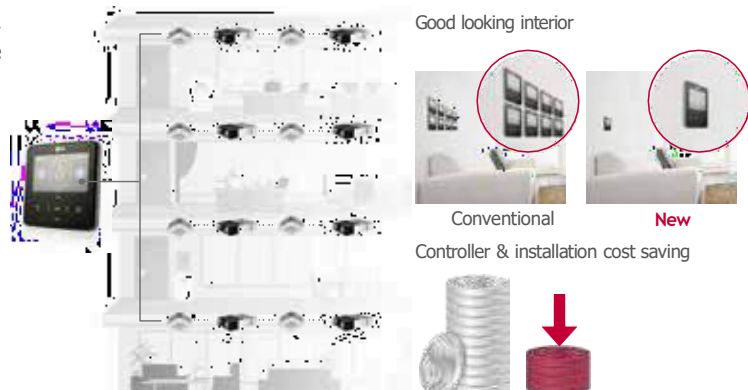
- Flexible display
- Dual display with air conditioner
- Zoom selected directory to increase legibility

Group Control

1 wired remote controller can work with up to 16 ERVs, including air conditioners. It is convenient for large common spaces such as lobbies.

Combine Several Units

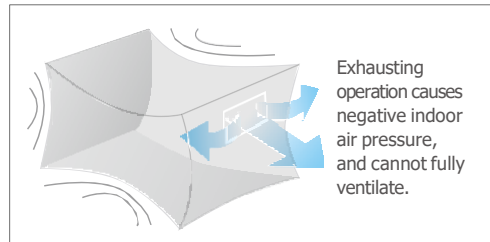
16 units group control is available with 1 remote controller.



Fast Ventilation Mode

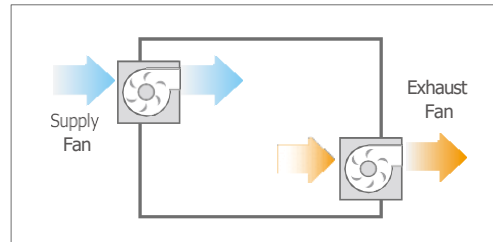
Fast ventilation mode prevents the spread of contaminants under negative indoor pressure, and makes indoor air fresh and comfortable quickly.

Only Exhausting



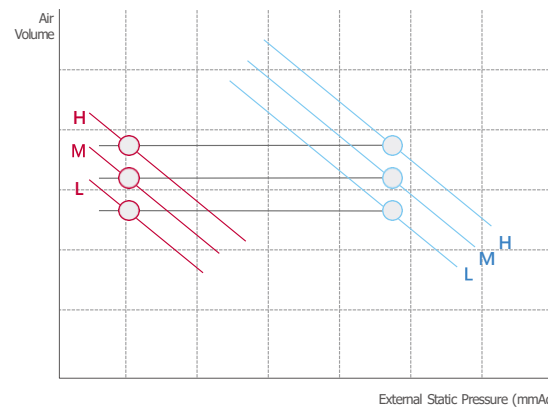
Exhausting and Supplying Simultaneously

Fast Ventilation Mode



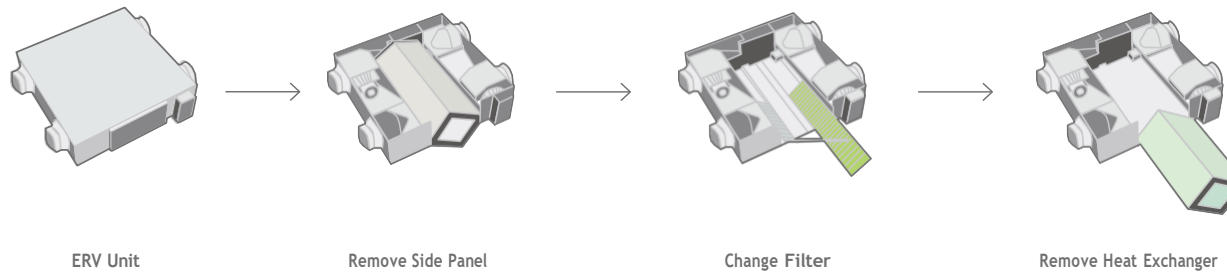
External Static Pressure Control

The high static pressure fan can control the air volume depending on the length of the duct. It is also easy to control the pressure level by using the remote controller for a more flexible duct installation and easier testing.



Easy Cleaning and Filter Change

Filter can be conveniently changed and cleaned.



LZ-H025GBA4 / LZ-H035GBA5



MODEL		UNIT	LZ-H025GBA4	LZ-H035GBA5
Dimensions (W x H x D)	Body	mm	988 x 273 x 1,014	
Weight	Body	kg	44	
Power Supply		V / Ø / Hz	220-240 / 1 / 50	
Normal Air flow			m³/h	250
	Operating Step		-	Super-high / High / Low
	Current	SH / H / L	A	0.70 / 0.60 / 0.42
	Power Input	SH / H / L	W	97 / 78 / 52
	Air Flow	SH / H / L	m³/h	250 / 250 / 150
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50
	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	70 / 70 / 72
		Cooling (SH / H / L)	%	66 / 66 / 68
	Energy Label	A+ to G Scale	-	A
	Sound Pressure Level	SH / H / L	dB(A)	29 / 28/ 24
	Sound Power Level	SH / H / L	dB(A)	50
	Operating Step		-	Super-high / High / Low
	Current	SH / H / L	A	0.70 / 0.60 / 0.42
	Power Input	SH / H / L	W	97 / 78 / 52
	Air Flow	SH / H / L	m³/h	250 / 250 / 150
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50
	Sound Pressure Level	SH / H / L	dB(A)	29 / 29/ 25
Duct Work	Qty	EA	4	
	Size (Ø)	mm	Ø200	
	Qty	EA	1	
Supply Air Fan	Type	-	Direct-Drive Sirocco	
	Qty	EA	1	
Exhaust Air Fan	Type	-	Direct-Drive Sirocco	
	Qty	EA	2	
Filters	Type	-	Cleanable Fibrous Fleeces	
	Size (W x H x D)	mm	855 x 10 x 160	855 x 10 x 166

Note :
1. ERV mode : Total Heat Recovery Ventilation mode
2. Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

Accessories

CHASSIS	LZ-H025GBA4	LZ-H035GBA5
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leak Detector	-	-
EEV Kit	-	-
Multi-tenant Power Module	-	-
Robot Cleaner	-	-
Pre Filter (Washable)	-	-
Ion Generator	-	-
CO ₂ Sensor	○ (embedded)	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	
External Input (1 point)	-	-
Wi-Fi	-	-

※ ○ : Applied, - : Not applied
Option : Refer to model name in table

LZ-H150GBA5 / LZ-H200GBA5



MODEL		UNIT	LZ-H150GBA5	LZ-H200GBA5
Dimensions (W x H x D)	Body	mm	1,353x815x 1,230	
Weight	Body	kg	130	
Power Supply		V / Ø / Hz	220-240 / 1 / 50	
Normal Air flow		m³/h	1,500	2,000
ERV Mode	Operating Step		-	Super-high / High / Low
	Current	SH / H / L	A	4.26 / 3.50 / 2.00
	Power Input	SH / H / L	W	660 / 530 / 290
	Air Flow	SH / H / L	m³/h	1,500 / 1,500 / 1,200
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50
	Temperature Exchange Efficiency	SH / H / L	%	81 / 81 / 83
	Enthalpy Exchange Efficiency	Heating (SH / H / L)	%	73 / 73 / 76
		Cooling (SH / H / L)	%	66 / 66 / 70
	Sound Pressure Level	SH / H / L	dB(A)	43 / 39 / 35
	Sound Power Level	SH / H / L	dB(A)	59 / 56 / 50
	Operating Step		-	Super-high / High / Low
	Current	SH / H / L	A	4.26 / 3.50 / 2.00
	Power Input	SH / H / L	W	660 / 530 / 290
	Air Flow	SH / H / L	m³/h	1,500 / 1,500 / 1,200
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	44 / 40 / 36
	Qty		EA	4 + 2
	Size (Ø)		mm	Ø250 + Ø350
	Qty		EA	2
Supply Air Fan	Type	-	Direct-Drive Sirocco	
	Qty	EA	2	
Exhaust Air Fan	Type	-	Direct-Drive Sirocco	
	Qty	EA	4	
Filters	Type	-	Cleanable Fibrous Fleeces	
	Size (W x H x D)	mm	1,148 x 6 x 245	

Note :
1. ERV mode : Total Heat Recovery Ventilation mode
2. Refer to dimensional drawings.
3. Noise level :
- The operating conditions are assumed to be standard
- Sound measured at 1.5m below the center the body.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The sound level at the air discharge port is about 8 dB(A) higher than the unit's operating sound.
4. Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature : 26.5°C DB, 64.5% RH, Outdoor Temperature : 34.5°C DB, 75% RH
5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
6. Temperature Exchange efficiency is tested at heating condition.

Accessories

CHASSIS	LZ-H150GBA5	LZ-H200GBA5
Drain Pump	-	-
Cassette Cover	-	-
Refrigerant Leak Detector	-	-
EEV Kit	-	-
Multi-tenant Power Module	-	-
Robot Cleaner	-	-
Pre Filter (Washable)	-	-
Ion Generator	-	-
CO ₂ Sensor	○ (embedded)	-
Ventilation Kit	-	-
IR Receiver	-	-
Zone Controller	-	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)	
External Input (1 point)	-	-
Wi-Fi	-	-

※ ○ : Applied, - : Not applied
Option : Refer to model name in table

ZE050GUCCA0 / ZE080GUCD A0
ZE100GUCD A0



※ 2Q Launching

- Ventilation with sensible and latent heat recovery
- Air flow coverage from 500 to 1,000 m³/h
- Compact size from 273 mm height
- Various filters can be used to improve indoor air quality (IAQ)
 - Filters grades : ePM10 50% (M5), ePM1 70% (F7), ePM1 80% (F9)
 - A second filter can be installed on the supply air side
- Built-in CO₂ concentration sensor
 - CO₂ Auto Operation based on CO₂ level
- Wi-Fi connection (optional)
- Hygienic material with Safe plus insulation
- Group control available up to 16 units with one wired controller

MODEL		UNIT	ZE050GUCCA0	ZE080GUCD A0	ZE100GUCD A0
Dimensions (W x H x D)	Body	mm	1,014 x 273 x 988	1,062 x 365 x 1,240	
Weight	Body	kg	41.7	54.4	54.4
Power Supply		V / Ø / Hz	220-240 / 1 / 50-60		
Normal Airflow Rate		m³/h	500	800	1,000
ERV Mode	Operating Step	-	High / Mid / Low		
	Current	SH / H / L A	1.7 / 1.2 / 0.8	2.2 / 1.4 / 0.8	3.0 / 1.9 / 1.0
	Power Input	SH / H / L W	250 / 160 / 105	330 / 200 / 100	475 / 280 / 140
	Airflow Rate	SH / H / L m³/h	500 / 400 / 300	800 / 640 / 480	1,000 / 800 / 600
	External Static Pressure	SH / H / L Pa	150 / 96 / 54	160 / 102 / 57	160 / 102 / 57
	Temperature Exchange Efficiency	SH / H / L %	78	75	73
	Enthalpy Exchange Efficiency	Heating (SH / H / L) %	75 / 75 / 78	73 / 76 / 79	72 / 73 / 74
		Cooling (SH / H / L) %	68 / 68 / 75	68 / 70 / 73	63 / 67 / 71
	Sound Pressure Level	SH / H / L dB(A)	39 / 34 / 29	39 / 34 / 28	40 / 36 / 29
	Sound Power Level	SH / H / L dB(A)	TBD	TBD	TBD
Bypass Mode		-	○		
Duct Work	Qty	EA	4		
	Size (Ø)	mm	200	250	250
Supply Air Fan	Qty	EA	1		
	Type	-	Direct-Drive Sirocco		
Exhaust Air Fan	Qty	EA	1		
	Type	-	Direct-Drive Sirocco		
Filters	Default (Qty)	Grade	OA: F7 RA: M5		
	Option	Grade	OA: M5, F7, F9 SA: M5, F7, F9		

- Note :
1. ERV mode : Total Heat Recovery Ventilation mode
 2. Refer to dimensional drawings.
 3. Noise level :
 - The operating conditions are assumed to be standard
 - Sound measured at 1.5m below the center the body.
 - Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
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 5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature : 20.5°C DB, 59.5% RH, Outdoor Temperature : 5°C DB, 65% RH
 6. Temperature Exchange efficiency is tested at heating condition.

Accessories

Air

Interlocking with MULTI V

CHASSIS	ZE050GUCCA0	ZE080GUCD A0	ZE100GUCD A0
Filter		M5, F7, F9	
CO ₂ Sensor		Embedded	
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)		
Wi-Fi		PWFMDD200	

※ ○ : Applied, - : Not applied
Option : Refer to model name in table

LG Filters

MODEL (CMH)	500	800, 1,000
M5	AFT050AEIM50	AFT100AEIM50
F7	AFT050AEF70	AFT100AEF70
F9 (Lanching date will be updated)	AFT050AEF90	AFT100AEF90






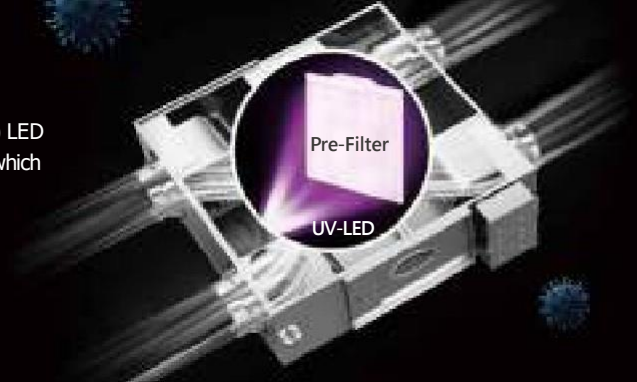
Clean Air Supply



Remove Up to 99.99% of Harmful Particles on Pre-Filter with UVnano

UVnano™

UVnano is a compound word of UV (ultraviolet) LED which reduces harmful bacteria, and nanometer which is the UV wavelength unit.

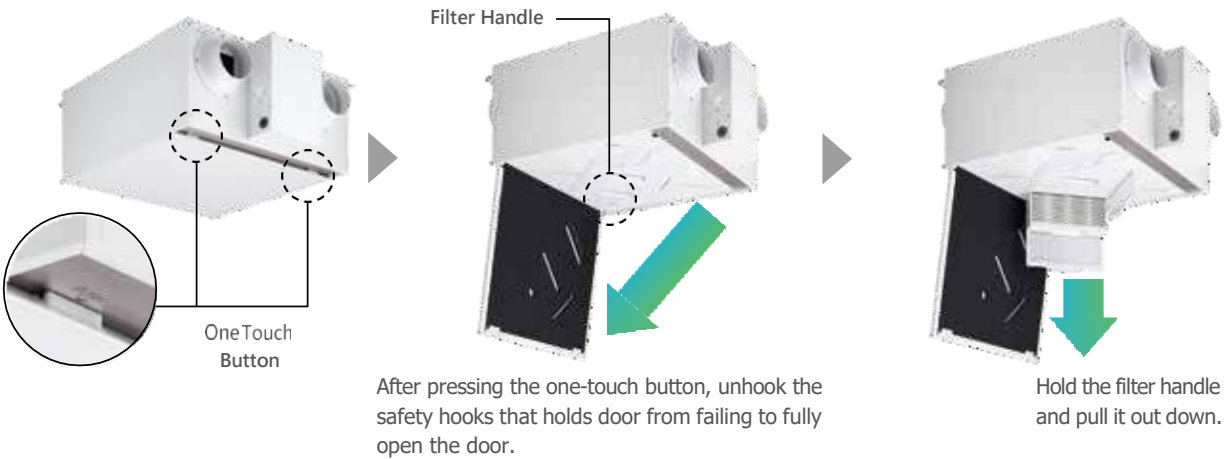






Easy Filter Maintenance

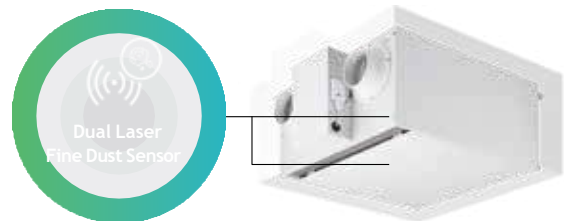
Via the one-touch button, the user can open the access door at the bottom of the unit, pull down the heat exchanger to change the filters. It is easy and simple without the need for any additional tools.



Smart Control

① Dual Laser Fine Dust Sensor

Two fine dust sensors monitor the incoming air and the supplied air to the room in real time to ensure that clean air is always supplied.



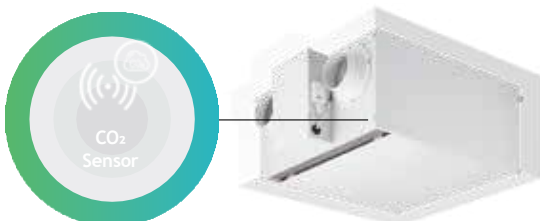
When the measured dust concentration in the air supplied to the room is higher than the pre-set value, a notification or text message will be sent out for filter replacement.

* Wi-Fi Modem is Optional.



② CO₂ Monitoring

The embedded CO₂ sensor monitors the carbon dioxide concentration in the room in real time and automatically controls the ventilation rate.



The system monitors the CO₂ concentration in the room and adjusts the ventilation rate accordingly. When the CO₂ concentration is high, it increases the ventilation rate, and automatically reduces it when the concentration is low.

* Wi-Fi Modem is Optional.

* CO₂ Sensor is Embedded.



③ Control ERV Anytime, Anywhere

Wired Remote Control	Mobile	Third-Party Compatibility
- Indoor CO ₂ concentration - Dust concentration in the supply air - Dust concentration in outdoor air	Check and control the Indoor air conditioner anytime, anywhere	With the dry contact connected, Modbus protocol is available.

* To use 3rd party wall pad, please contact Sales Engineer.

④ Filter Maintenance Alarm

The filter replacement notification and text message are sent when the fine dust concentration is higher than the pre-set point.



LZ-H015GBA6 / LZ-H020GBA6



MODEL		UNIT	LZ-H015GBA6	LZ-H020GBA6
Dimensions (W x H x D)	Body	mm	640 x 320 x 640	640 x 320 x 640
Weight	Body	kg	23	23
Power Supply		V / Ø / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50
ERV Mode	Operating Step	-	SH / H / L	SH / H / L
	Current	SH / H / L A	0.43 / 0.38 / 0.23	0.59 / 0.51 / 0.26
	Power Input	SH / H / L W	56 / 49 / 26	79 / 71 / 30
	Air Flow	SH / H / L CMH	150 / 150 / 80	200 / 200 / 100
	External Static Pressure	SH / H / L Pa	100 / 70 / 50	100 / 70 / 50
	Temperature Exchange Efficiency	Heating (SH / H / L) (ErP) %	85	82
		Heating (SH / H / L) (JIS) %	80 / 80 / 84	78 / 78 / 82
		Cooling (SH / H / L) (JIS) %	74 / 74 / 83	70 / 70 / 81
	Enthalpy Exchange Efficiency	Heating (SH / H / L) (JIS) %	79 / 79 / 83	75 / 75 / 81
		Cooling (SH / H / L) (JIS) %	74 / 74 / 80	68 / 68 / 76
Bypass Mode	Energy Label	A+ to G Scale -	A	A
	Sound Power Level	SH / H / L dB(A)	53 / 51 / 45	55 / 53 / 46
	Sound Pressure Level	SH / H / L dB(A)	28 / 26 / 21	30 / 28 / 22
	Current	SH / H / L A	0.45 / 0.40 / 0.26	0.60 / 0.52 / 0.29
	Power Input	SH / H / L W	63 / 53 / 31	84 / 73 / 35
	Air Flow	SH / H / L CMH	150 / 150 / 80	200 / 200 / 100
Operation Range	Outdoor Air Temperature / Relative Humidity	°C / %	-10 ~ 40 / 20 ~ 80	-10 ~ 40 / 20 ~ 80
	Qty	EA	4	4
Fan Motor	Size (Ø)	mm	125	125
	Supply Air Fan	RPM	1,850 / 1,710 / 1,300	2,050 / 1,910 / 1,400
	Exhaust Air Fan	RPM	1,750 / 1,600 / 1,250	1,910 / 1,770 / 1,320
	Max.	RPM	2,100	2,100
	Min.	RPM	1,000	1,000
Filters	Grade ¹⁾	-	F8	F8
	Size (W x H x D)	mm	278 x 276 x 50	278 x 276 x 50

Note :
1. Temperature and Enthalpy Exchange Efficiency are based on the following conditions. Temperature Exchange Efficiency is tested at heating conditions.
- Cooling : Indoor Ambient Temp. 26.5°CDB / 64.5%RH, Outdoor Ambient Temp. 34.5°CDB / 75%RH
- Heating : Indoor Ambient Temp. 20.5°CDB / 59.5%RH, Outdoor Ambient Temp. 5°CDB / 65%RH
2. The operating sound measured at the point 1.5 m below the center of the unit is converted to that measured at an anechoic chamber.
3. The specifications, designs and information here are subject to change without notice.

LZ-H015GBA6 / LZ-H020GBA6



Accessories

CHASSIS	LZ-H015GBA6	LZ-H020GBA6
CO ₂ Sensor		Embedded
UVnano		Embedded
Pre Filter (Washable)		Embedded
Dual Laser Fine Dust Sensor		Embedded
Remote Controller (PREMTB101 / PREMTBB11)		○
Wi-Fi Modem (PWFMD200)		○

※ ○ : Applied, - : Not applied
Option : Refer to model name in table

Functions

MODEL	LZ-H015GBA6	LZ-H020GBA6
Air Purification	UVnano	○
	Pre-Filter	○
	Fine Filter (ePM1.95%)	○
Reliability	Self Diagnosis	○
Convenience	Auto Restart	○
	Child Lock	○
	Forced Operation	○
	Group Control	○
	Turn On / Off Reservation	○
	Schedule	○
	Night Time Free Cooling	○
	Delayed Operation	○
	Airflow Amount Customized Operation	○
	Seasonal Customized Operation	○
Installation	Seasonal Auto Operation	○
	E.S.P. Control	○
ETC	Central Control (LGAP)	○
	Filter Alarm	○
	CO ₂ Sensor	○
	Wi-Fi	Accessory

Note
1. ○ : Applied, X : Not applied
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.