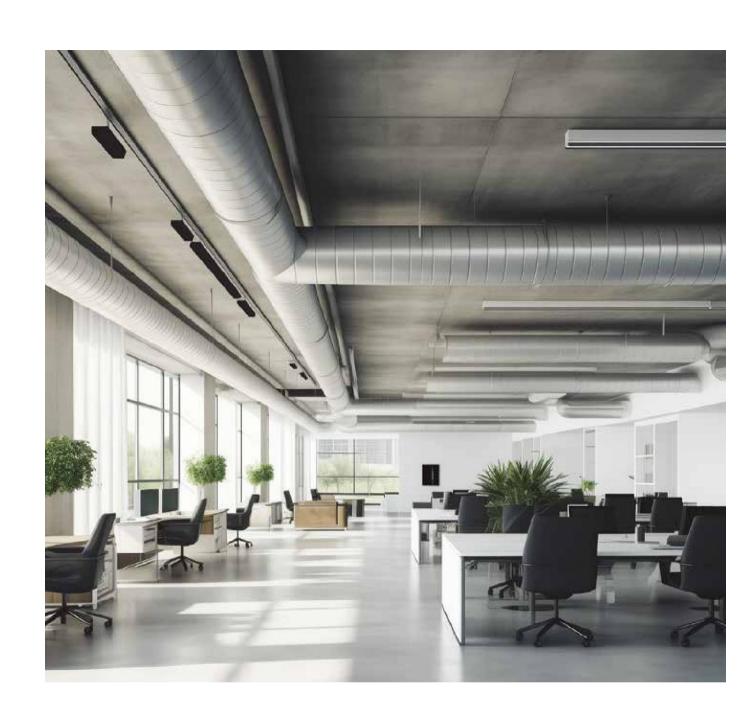
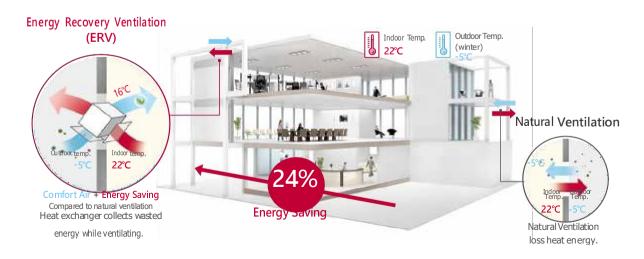


HIGH

EFFICIENCY

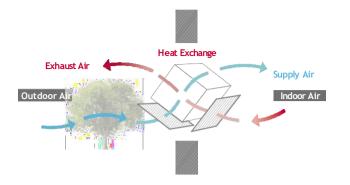


Necessity of ERV



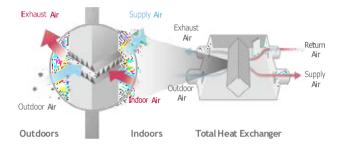
High Efficiency Heat Exchanger

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.



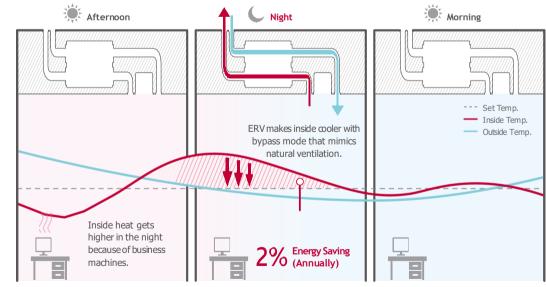
Cross Flow System

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.

COMFORT

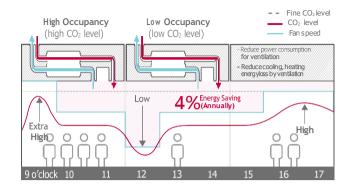
ထ

RELIABILIT

CO₂ Auto Operation

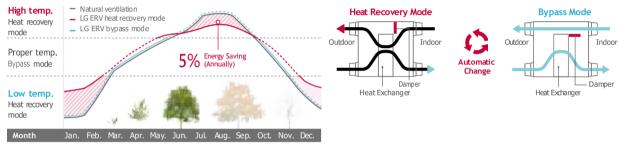
LG ERV reduces energy loss with auto fan speed control following CO2 level.

- 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 (49,000ft') / Occupancy: 30 / Area: London, UK
- FRV (1000 CMH) + MLILTL V 4 (12HP) Unit Combination



Seasonal Auto Operation

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



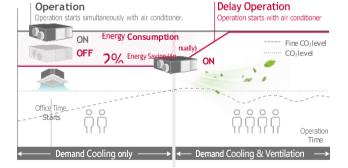
- * This function is operated with 'Auto' mode by wired remote control.
- Energy saving ratio can be differed by weather condition.
 Test Condition: Office (49,000ft²) / Occupancy: 30 / Area: London, UK ERV (1,000 CMH) + MULTIV 4 (12HP) Unit Combination
- Other conditions are subject to BREEAM

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.
- * TestCondition 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

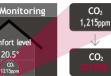
If the CO₂ level is above 900ppm in the room, the red mark appears.



CO₂ level and room condition are displayed continuously.



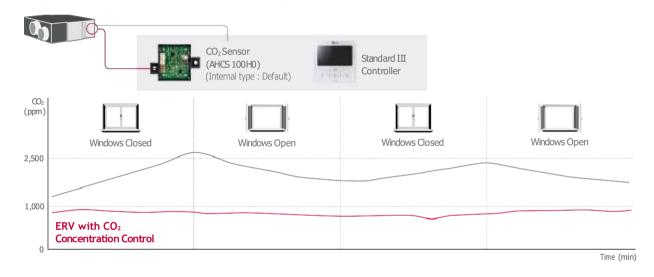




- * Applicable to only Standard III. Premium

CO₂ Concentration Control

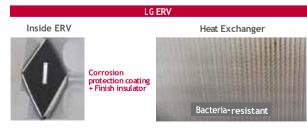
Using CO₂ sensor, LG ERV controls exhaust air flow automatically to keep indoor air fresh under settled CO₂ concentration.



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





CONVENIENCE

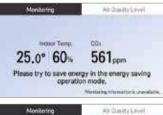
Easy Control

The wired remote controller is easy to use.



Easy

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



Monitoring	Ale Country Level
25.0° 61 _%	Moderate
Please try using UVnano	for hygienic product use.

Display

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



Convenient

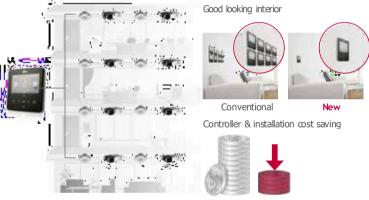
- Flexible display
- Dual display with air conditioner
- Zoom selected directory to increase legibility

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

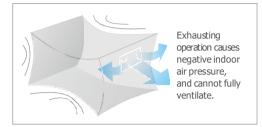
 $16\ \mathrm{units}\ \mathrm{group}\ \mathrm{control}\ \mathrm{is}\ \mathrm{available}\ \mathrm{with}\ 1\ \mathrm{remote}$ controller.



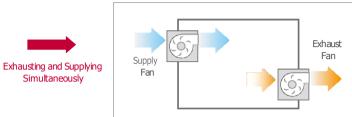
Fast Ventilation Mode

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

Only Exhausting

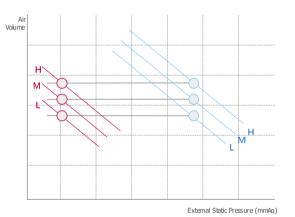


Fast Ventilation Mode



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 deaned.





	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	350
	Operating Step		-		Super-high / High / Low
	Current	SH / H / L	Α	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50
	Power Input	SH / H / L	W	97 / 78 / 52	150 / 125 / 60
	Air Flow	SH / H / L	m³/h	250 / 250 / 150	350 / 350 / 210
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	150 / 100 / 50
ERV Mode	Temperature Exchange Efficiency	SH / H / L	%	80 / 80 / 83	79 / 79 / 82
	Enthalpy Exchange	Heating (SH / H / L)	%	70 / 70 / 72	75 / 75 / 80
	Efficiency	Cooling (SH / H / L)	%	66 / 66 / 68	71 / 71 / 75
	Energy Label	A+ to G Scale	-	Α	В
	Sound Pressure Level	SH / H / L	dB(A)	29 / 28/ 24	35 / 32 / 26
	Sound Power Level	SH / H / L	dB(A)	50	53 / 50 / 42
	Operating Step		-		Super-high / High / Low
	Current	SH / H / L	Α	0.70 / 0.60 / 0.42	1.05 / 0.90 / 0.50
Bypass Mode	Power Input	SH / H / L	W	97 / 78 / 52	150 / 125 / 60
	Air Flow	SH / H / L	m³/h	250 / 250 / 150	350 / 350 / 210
	External Static Pressure	SH / H / L	Pa	100 / 70 / 50	150 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	29 / 29/ 25	35 / 33 / 26
Duct Work		Qty	EA		4
Duct Work		Size (Ø)	mm		Ø200
Committee Com		Qty	EA		1
Supply Air Fan		Туре	-		Direct-Drive Sirocco
Exhaust Air Fan		Qty	EA		1
EXTIGUST AIL L'AU		Туре	-		Direct-Drive Sirocco
		Qty	EA		2
Filters		Туре	-		Cleanable Fibrous Fleeces
		Size (W x H x D)	mm	855 x 10 x 160	355 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 vany 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	<u>-</u>
Cassette Cover	-
Refrigerant Leak Detector	-
EEV Kit	-
Multi-tenant Power Module	-
Robot Cleaner	-
Pre Filter (Washable)	-
Ion Generator	-
CO ₂ Sensor	o (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	1,353 x 8	315 x 1,230
Weight	Body		kg	130	
Power Supply			V / Ø / Hz	220-24	0/1/50
Normal Air flow			m³/h	1,500	2,000
	Operating Step		-	Super-high	/ High / Low
	Current	SH / H / L	Α	4.26/3.50/2.00	5.92 / 4.76 / 2.80
	Power Input	SH/H/L	W	660 / 530 / 290	926 / 740 / 420
	Air Flow	SH / H / L	m³/h	1,500/1,500/1,200	2,000/2,000/1,60
	External Static Pressure	SH/H/L	Pa	160 / 100 / 50	160 / 100 / 50
EKV MODE	remperature Exchange Efficiency	SH / H / L	%	81 / 81 / 83	79 / 79 / 80.9
	Enthalpy Exchange	Heating (SH / H / L)	%	73 / 73 / 76	71 / 71/ 73
	Efficiency	Cooling (SH / H / L)	%	66 / 66 / 70	64 / 64 / 67
	Sound Pressure Level	SH / H / L	dB(A)	43 / 39 / 35	43 / 40 / 36
	Sound Power Level	SH / H / L	dB(A)	59 / 56 / 50	62 / 59 / 55
	Operating Step		-	Super-high	/ High / Low
	Current	SH / H / L	А	4.26 / 3.50 / 2.00	5.92 / 4.76 / 2.80
Bypass Mode	Power Input	SH / H / L	W	660 / 530 / 290	926 / 740 / 420
bypass mode	Air Flow	SH / H / L	m³/h	1,500 / 1,500 / 1,200	2,000 / 2,000 /
	External Static Pressure	SH / H / L	Pa	160 / 100 / 50	160 / 100 / 50
	Sound Pressure Level	SH / H / L	dB(A)	44 / 40 / 36	44/ 41 / 37
5 .W I		Oty	EA	4+2	
Duct Work		Size (Ø)	mm	Ø250 + Ø350	
		Oty	EA		2
Supply Air Fan		Type	-	Direct-Dri	ive Sirocco
Exhaust Air Fan		Oty	EA		2
EXIIAUST AII LAU		Type	-	Direct-Dri	ive Sirocco
		Oty	EA		4
Filters		Type	-	Cleanable Fi	brous Fleeces
		Size (W x H x D)	mm	1,148 >	(6 x 245

- Refer to dimensional drawings.

- Refer to dimensional drawings.
 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 units operating sound.

 Temperature and Enthalpy Exchange Efficiency at cooling Indoor Temperature: 26.5°C DB, 64.5% RH,
 Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature: 20.5°C DB, 59.5% RH,
 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	o (embedded)
Ventilation Kit	•
IR Receiver	•
Zone Controller	-
Dry Contact (with additional accessory)	PDRYCB000 (1 point contact), PDRYCB500 (Modbus)
External Input (1 point)	•
Wi-Fi	-

* o : Applied, - : Not applied
Option : Refer to model name in table





¥ 2Q Launching

- Ventilation with sensible and latent heat recovery
- \bullet Air flow coverage from 500 to 1,000 $\,\text{m}^3/\text{h}$
- 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	ZE080GUCDA0	ZE100GUCDA0
Dimensions (W x H x D)	Body		mm	1,014 × 273 × 988	4 × 273 × 988 1,062 × 36 5 × 1,240	
Weight	Body		kg	41.7	54.4	54.4
Power Supply	Power Supply		V/Ø/Hz		220-240 / 1 / 50-60	
Normal Airflow Ra	ate		m³/h	500 800 1,000		1,000
	Operating Step		-		High / Mid / Low	
	Current	SH / H / L	Α	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
ERV Mode	Temperature Exchange Efficiency	SH / H / L	%	78	75	73
	Enthalpy Exchange	Heating (SH / H / L)	%	75 / 75 / 78	73 / 76 / 79	72 / 73 / 74
	Efficiency	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			-		0	
Duct Work		Qty	EA		4	
		Size (Ø)	mm	200	250	250
Supply Air Fan		Qty	EA		1	
зирріу Ан Ган		Туре	-	Direct-Drive Sirocco		
Exhaust Air Fan		Qty	EA	1		
EXIIduSt All Fall		Туре	-		Direct-Drive Sirocco	
Filters		Default	Grade (Qty)		OA: F7 RA: M5	
1 110013		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.

 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,

 5. Temperature and Enthalpy Exchange Efficiency at heating Indoor Temperature: 20.5°C DB, 59.5% RH,

 6. Temperature Exchange efficiency is tested at heating condition.

Accessories

Interlocking with MULTI V

The chief with Piets			
CHASSIS	ZE050GUCCA0	ZE080GUCDA0	ZE100GUCDA0
Filter		M5, F7, F9	
CO ₂ Sensor	Empeaaea		
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

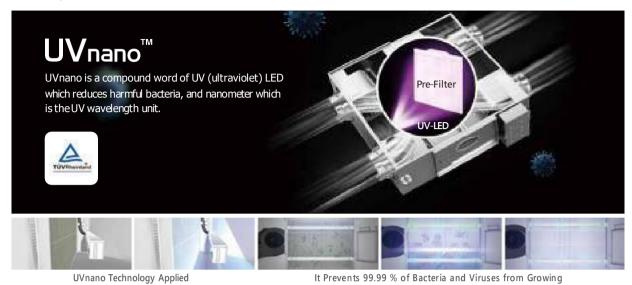
MODEL (CMH)	500	800, 1,000 AFT100AEM50
M5	AFT050AEM50	AFT100AEM50
F7	AFT050AEF70	AFT100AEF70
F9 (Lanching date will be updated)	AFT050AEF90	AFT100AEF90





Clean Air Supply

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



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.



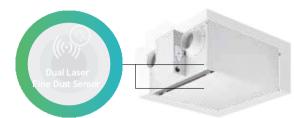
RESIDENTIAL

ERV

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

② CO₂ Monitoring

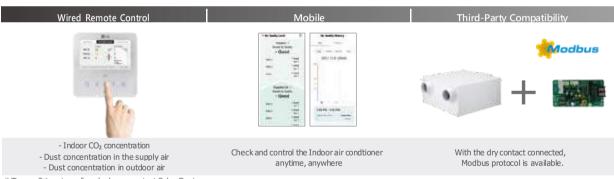
The embedded CO₂ sensor monitors the carbon dioxide concentration in the room in real time and automatically controls the ventilation rate.



The system monitors the CO_2 concentration $\,^*\,\text{Wi-Fi}\,\,\text{Modem}$ is 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.



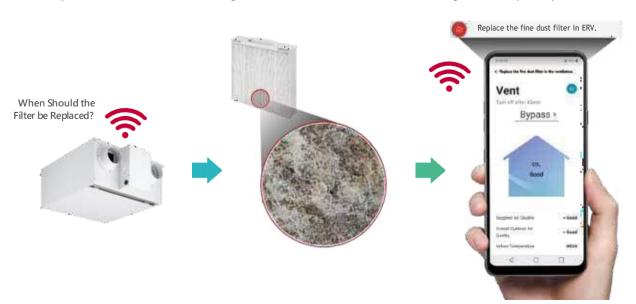
③ Control ERV Anytime, Anywhere



^{*} To use 3rd party wall pad, please contact Sales Engine r.

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
	Operating Step		-	SH / H / L	SH / H / L
	Current	SH / H / L	Α	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
		Heating (SH / H / L) (ErP)) %	85	82
ERV Mode	Temperature Exchange Efficiency	Heating (SH / H / L) (JIS)	%	80 / 80 / 84	78 / 78 / 82
	Linciency	Cooling (SH / H / L) (JIS)	%	74 / 74 / 83	70 / 70/ 81
	Enthalpy Exchange	Heating(SH/H/L)(JIS)	%	79 / 79 / 83	75 / 75 / 81
	Efficiency	Cooling(SH/H/L)(JIS)	%	74 / 74 / 80	68 / 68 / 76
	Energy Label	A+ to G Scale	-	А	А
	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	А	0.45 / 0.40 / 0.26	0.60 / 0.52 / 0.29
Bypass Mode	Power Input	SH / H / L	W	63 / 53 / 31	84 / 73 / 35
bypass mode	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
Operation Range	Outdoor Air Temperature	/ Relative Humidity	°C/%	-10 ~ 40 / 20 ~ 80	-10 ~ 40 / 20 ~ 80
Decet Week	Qty		EA	4	4
Duct Work	Size (Ø)		mm	125	125
	Supply Air Fan		RPM	1,850 / 1,710 / 1,300	2,050 / 1,910 / 1,400
Fan Motor	Exhaust Air Fan		RPM	1,750 / 1,600 / 1,250	1,910 / 1,770 / 1,320
an Motor	Max.		RPM	2,100	2,100
	Min.		RPM	1,000	1,000
F114	Grade ¹⁾		-	F8	F8
Filters	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.

NO TE

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)	0	
Wi-Fi Modem (PWFMDD200)	0	

% o : Applied, - : Not applied
Option : Refer to model name in table

Functions

	MODEL	LZ-H015GBA6	LZ-H020GBA6
	UVnano	0	0
Air Purification	Pre-Filter	0	0
	Fine Filter (ePM1 95%)	0	0
Reliability	Self Diagnosis	0	0
	Auto Restart	0	0
	Child Lock	0	0
	Forced Operation	0	0
	Group Control	0	0
	Turn On / Off Reservation	0	0
Convenience	Schedule	0	0
	Night Time Free Cooling	0	0
	Delayed Operation	0	0
	Airflow Amount Customized Operation	0	0
	Seasonal Customized Operation	0	0
	Seasonal Auto Operation	0	0
Installation	E.S.P. Control	0	0
	Central Control (LGAP)	0	0
ETC	Filter Alarm	0	0
	CO ₂ Sensor	0	0
	Wi-Fi	Accessory	Accessory

Note
1. 0 : 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.