

# HIMPEL

Smart Solutions  
**HIMPEL**  
Bathroom Ventilation



**M←Universal**<sup>TM</sup>  
Engineering & Trading Limited

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



### Ventilation Fan with Constant Air Volume for Bathroom

(Certified by Korean Association of Air Conditioning Refrigerating and Sanitary Engineers)

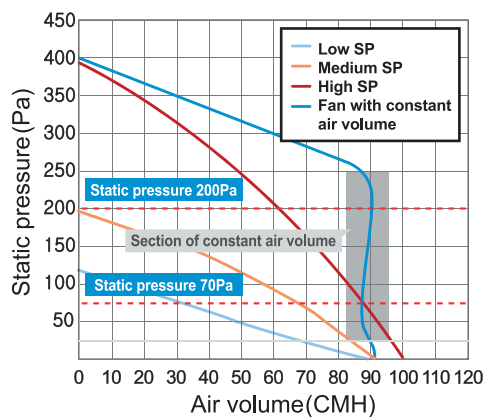


### High Efficiency Energy Equipment

(Energy Management Corporation)



### Conformity European Marking



#### Fan with constant air volume

The air volume is maintained to be more than 60CMH within the static pressure of 20-250Pa, and the variation of the max and minimum air volume is kept within  $\pm 10\%$  (always maintaining constant air volume). (KARSE B 0044)

#### Fan with high static pressure

The air volume is more than 60CMH at the static pressure of 200Pa.

#### Fan with medium static pressure

The air volume is more than 60CMH at the static pressure of 70Pa.

#### Fan with low static pressure

The air volume is more than 60CMH at the static pressure of 0Pa.

	NAME	MODEL	Page
High Static Pressure	ZEROC	FZD-C90S(BLDC)	03
		FZD-C90S(BLDC)	04
		HV3-100	05
		HV3-120	
		HV3-150	
		FZA-C110S	07
		FZA-C80	08
Medium Static Pressure	ZEROC	FZA-L110S	09
		HV3-81JG	
		HV3-81JG	10
	ZAION	HV-81WF	16
		HV-180	
		HV-200	
	TURBO 747	HV-250	11
		FZA-70S1	
Low Static Pressure	CYCLONE	FZA-70S1	13
		JV-201M	
		JV-201S	
		JV-201C	
Thermo Ventilator	HUEZENTTE	JV-201T	15
		FHA-P180S	
		FHA-S180S	
		FHA-P180S	20
		FHA-S180S	

CONSTANT AIR VOLUME	HIGH Efficiency	AIR VOLUME (CMH)	CONNECTION DIAMETER (Ø)	AIR VOLUME Adjusting Damper	Expansion Branch	Control Switch	Remarks
●		91	100	●	●		CE PSE SNI
●	●	90	100	●	●		CE BLDC motor
	●	100	100	●	●	●	
		120	100	●	●	●	CE
		145	100	●	●	●	
●		110	100		●		
●		83	100		●		Magnetic damper SNI
●		110	100		●		CE LED LIGHT SNI
●		85	100		●		LED LIGHT
●		75	100				
	●	220	100/125		●	●	BLDC motor
		250	100/125		●	●	3-step adjustment
	●	250	100/125		●	●	BLDC motor
	●	250	100/125		●	●	3-step adjustment
●	●	83	100		●	●	BLDC motor
●		90	100		●	●	
		100	100		●	●	
		120	100		●	●	
		150	100		●	●	
	●	180	100		●		CE
		200	100		●		
		250	100		●		SNI
	●	90	100				CE SNI
		90	100				CE No power lamp
		90	100				CE SNI
		90	100				CE No power lamp
		90	100				CE SNI
	●	70	100				CE Magnetic damper
		80	100				SNI
		80	100				SNI
		80	100				SNI
		80	100				SNI
		180	100				
		180	100				
	●	55				●	Ductless Ceiling Type SNI

## Ventilation Fan with High Static Pressure (constant air volume)



### HV3-80X



- ▶ Low noise
- ▶ Various operational options
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branching
- ▶ Multi-expansion air volume adjusting damper
- ▶ Acquisition of certification of Ventilation Fan with Constant Air Volume for Bathroom



Ventilation Fan with  
Constant Air Volume  
for Bathroom



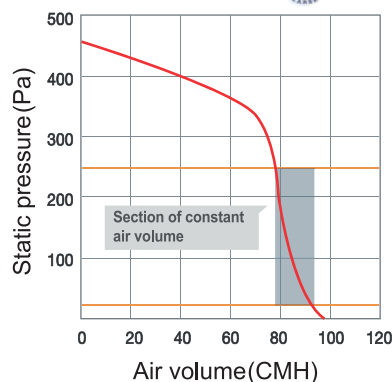
High Efficiency  
Energy  
Equipment



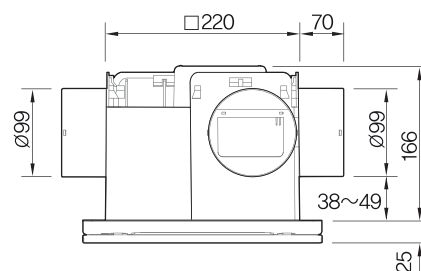
Conformity  
European  
Marking

### Performance

HV3-80X



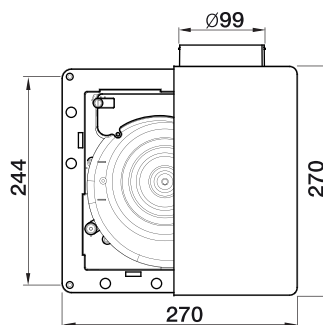
### Dimension



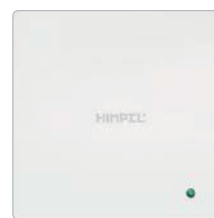
**Installation Size**  
225X225mm(±5mm)

### Dimension of Grille

※ HV3-80X



### Grille ※HV3-80X



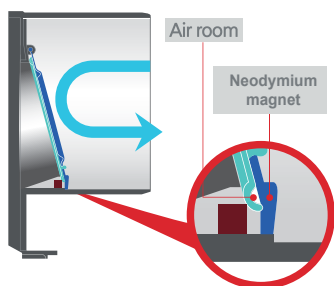
**F GRILLE**

Size 270(W)X270(D)



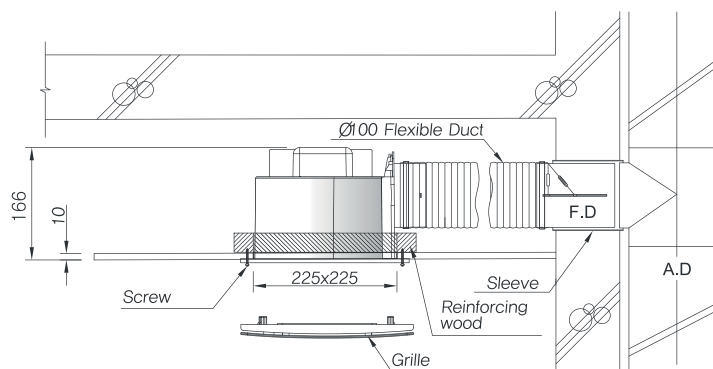
**M GRILLE**

Size 275(W)X275(D)



- ① Airtight Air room structure
- ② Anti back flow neodymium magnetic

### Installation ※ HV3-80X



MODEL	HV3-80X (constant air volume)
Static Pressure	25~250Pa
Constant Air Volume	91CMH (54 CFM)
Air Volume	82.6~100.4CMH (48.6~59 CFM)
Power Consumption	36W
Noise (at 1m)	37dB
Size	Main Body 270(W) X 270(D) X 166(H)mm / Grille 270, 275
Weight	2.4kg
Operational Options	D (Delay type), T (Timer type), V (Ventilation unit interlocking type)
Options	M Grille, F Grille, Power Lamp (L), Multi-expansion Branch, Multi- expansion Air Volume Damper

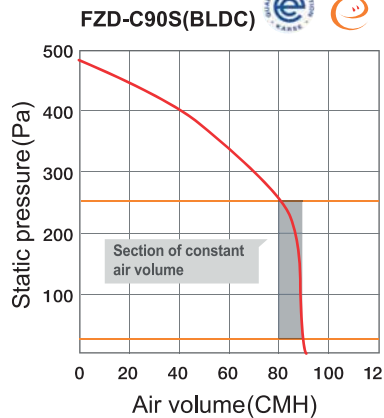
※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

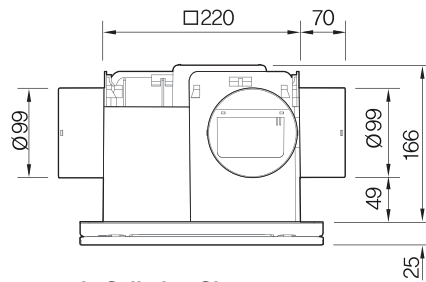


## Ventilation Fan with High Static Pressure (constant air volume, high efficiency, BLDC)

### Performance



### Dimension



**Installation Size**  
225X225mm(±5mm)



### FZD-C90S(BLDC)

- ▶ Low noise
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branching
- ▶ Multi-expansion air volume adjusting damper
- ▶ BLDC motor
- ▶ Acquisition certification of Ventilation Fan with Constant Air Volume for Bathroom
- ▶ Acquired certification of High Efficiency Energy Equipment

### Grill ※ FZD-C90S



**F GRILLE**  
Size 270(W)X270(D)



**M GRILLE**  
Size 275(W)X275(D)

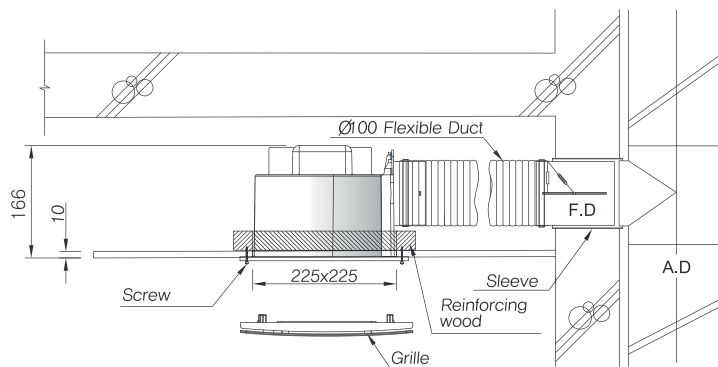


Ventilation Fan with  
Constant Air Volume for  
Bathroom



High Efficiency Energy  
Equipment

### Installation ※ FZD-C90S



Conformity  
European  
Marking

MODEL	FZD-C90S (constant air volume, high efficiency, BLDC)
Static Pressure	25~250Pa
Constant Air Volume	90CMH (53 CFM)
Air Volume	81~99CMH (47.6~58.3 CFM)
Power Consumption	9W
Noise (at 1m)	39.3dB
Size	Main Body 270(W) X 270(D) X 166(H)mm / Grill 270, 275
Weight	2.4kg
Operational Options	—
Options	M Grille, F Grille, Power Lamp (L), Multi-expansion Branch, Multi-expansion Air Volume Damper

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## Ventilation Fan with High Static Pressure (High Efficiency)



### HV3-100, HV3-120 HV3-150

- ▶ Low noise
- ▶ Various operational options
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branching
- ▶ Multi-expansion air volume adjusting damper
- ▶ Acquisition of certification of Ventilation Fan with Constant Air Volume for Bathroom

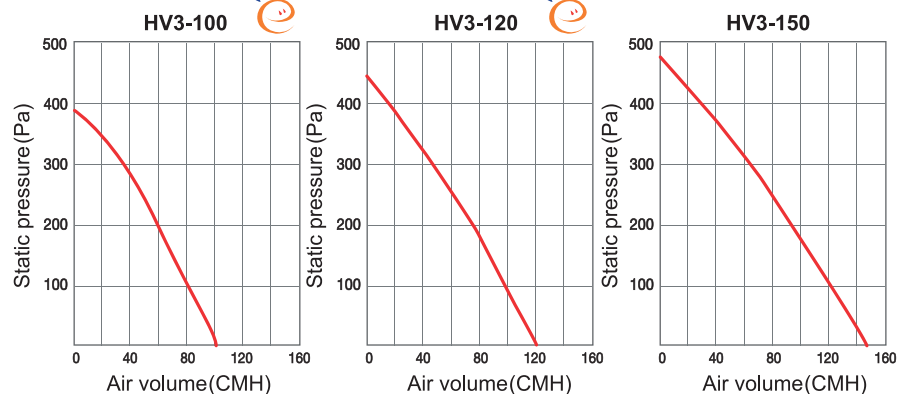


Conformity  
European  
Marking

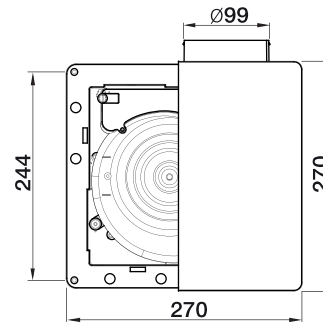


High Efficiency  
Energy  
Equipment

#### Performance



#### Dimension of Grille



#### Grille



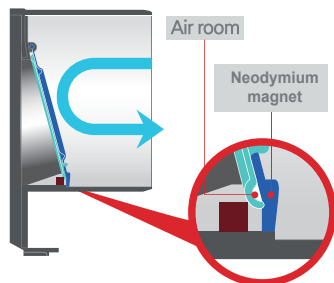
**F GRILLE**

Size 270(W)X270(D)



**M GRILLE**

Size 275(W)X275(D)



- ① Airtight Air room structure
- ② Anti back flow neodymium magnetic

MODEL	HV3-100			HV3-120			HV3-150		
Static Pressure	0Pa	100Pa	200Pa	0Pa	100Pa	200Pa	0Pa	100Pa	200Pa
Air Volume	100CMH (58.9CFM)	80CMH (47.1CFM)	60CMH (35.3CFM)	120CMH (70.6CFM)	90CMH (53CFM)	70CMH (41.2CFM)	145CMH (85.3CFM)	120CMH (70.6CFM)	90CMH (53CFM)
Power Consumption	27W			31W			39W		
Noise (at 1m)	36.5dB			39.6dB			44dB		
Size	Main Body 270(W) X 270(D) X 166(H)mm / Grill 270, 275								
Weight	2.4kg								
Operational Options	H (Humidity type), T (Timer type), D (Delay type), V (Ventilation unit interlocking type), U (High/Low 2-stage type), HT (Humidity, Timer type)								
Options	M Grille, F Grille, Power Lamp (L), Multi-expansion Branch, Multi-expansion Air Volume Damper, Control Switch								

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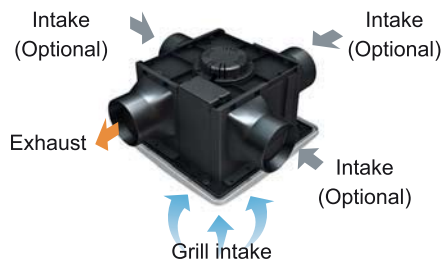
**Control Switch (Optional)**

You can control the fan speed using the control switch

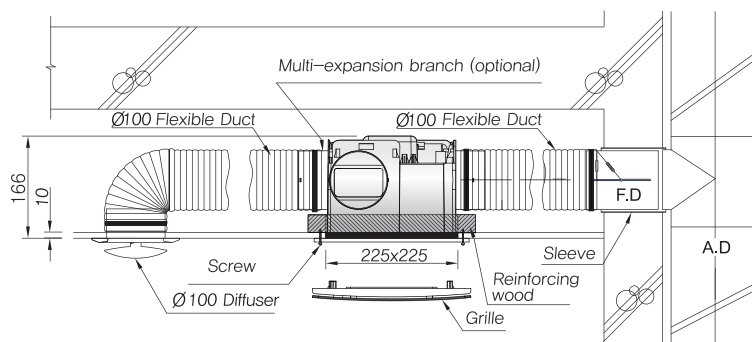
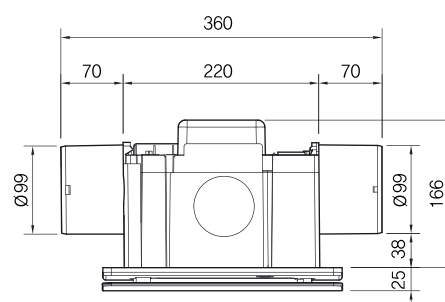
**Features****Air volume ratio for branching (%)**

Branch type	4 Branches
Grill	70 %
Expansion branch	30 %

※ The ratio is for a flexible duct within 2m and may vary according to the installation condition.



※ This controls expansion intake and air volume ratio of Grill.

**Installation****Dimension**

## Ventilation Fan with High Static Pressure(constant air volume)



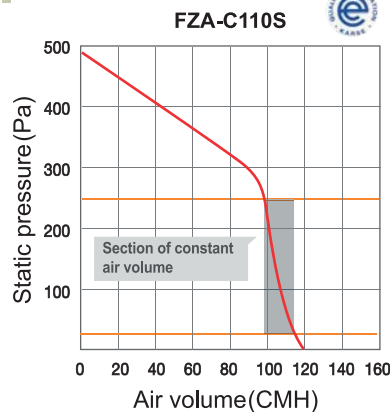
### FZA-C110S

- ▶ Constant air volume and high static pressure
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branching
- ▶ Improved constant air volume
- ▶ Acquisition certification of Ventilation Fan with Constant Air Volume for Bathroom

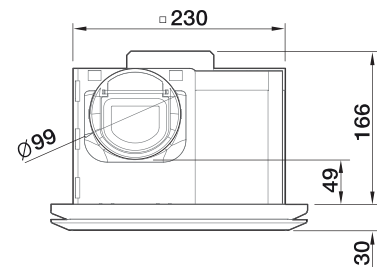


Ventilation Fan with  
Constant Air Volume for  
Bathroom

#### Performance

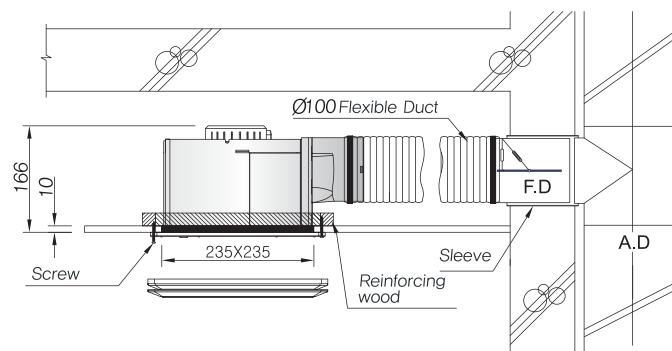


#### Dimension

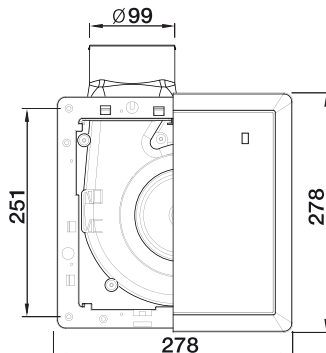


**Installation Size**  
235X235mm(±5mm)

#### Installation



#### Dimension of Grille

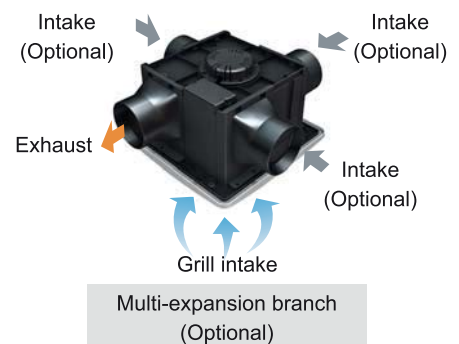


#### Expanded Branching

Air volume ratio for branching (%)

Branch type	4 Branches
Grill	70 %
Expansion branch	30 %

※ The ratio is for a flexible duct within 2m and may vary according to the installation condition.



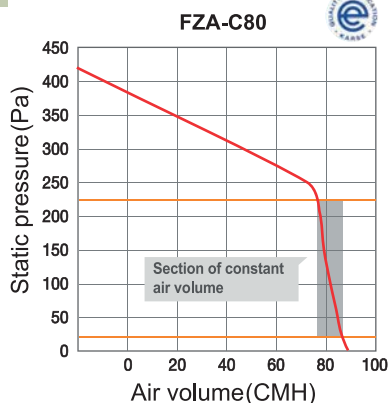
MODEL	FZA-C110S (constant air volume)
Static Pressure	25~250Pa
Constant Air Volume	110CMH (64.7CFM)
Air Volume	103.3~119.2CMH (60.8~70.2CFM)
Power Consumption	44W
Noise (at 1m)	38.4dB
Size	Main Body 278(W) X 278(D) X 166(H)mm / Grill 278
Weight	2.8kg
Options	Expansion Branch

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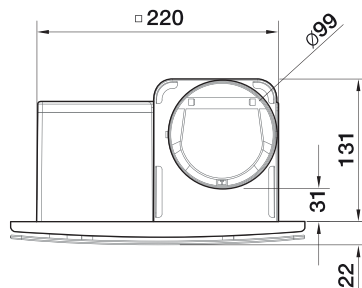
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## Slim Type of Ventilation Fan (constant air volume)

## Performance



## Dimension



**Installation Size**  
225X225mm(±5mm)

**FZA-C80**

- ▶ Slim type
- ▶ Constant air volume and high-static pressure
- ▶ Highly air tight damper preventing back flow (Silicone pad and magnetic applied)
- ▶ Expansive air exhaust for two rooms available



Ventilation Fan with  
Constant Air Volume for  
Bathroom

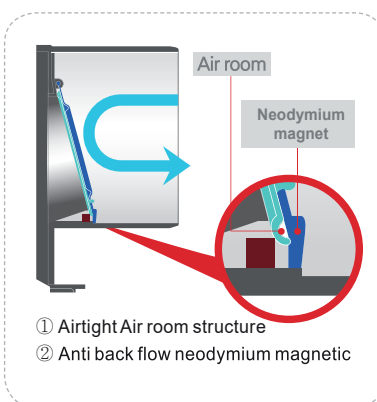
## Grille

**F GRILLE**

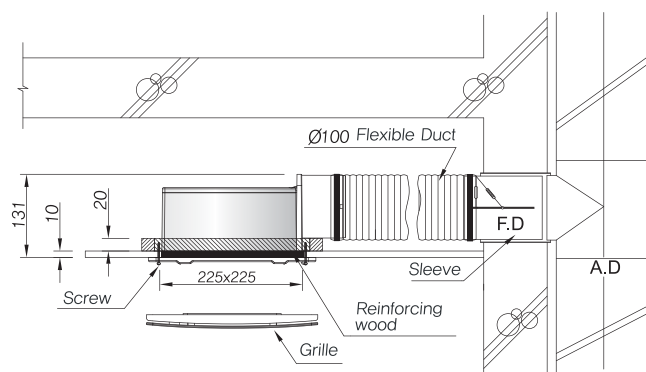
Size 270(W)X270(D)

**M GRILLE**

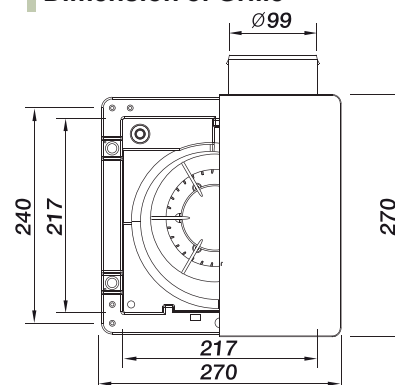
Size 275(W)X275(D)



## Installation



## Dimension of Grille



MODEL	FZA-C80 (constant air volume)
Static Pressure	25~250Pa
Constant Air Volume	83CMH (48.9CFM)
Air Volume	77.3~90.5CMH (45.5~53.3CFM)
Power Consumption	34W
Noise (at 1m)	38dB
Size	Main Body 220(W) X 220(D) X 131(H)mm / Grille 270, 275
Weight	2.1kg
Options	Grille cover (Flat/Honey Moon), Expansion Branch

※ The specification and the performance may be changed for improvement without notice.

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## Ventilation Fan with High Static Pressure (and LED light)



### FZA-L110S

- ▶ Constant air volume and high static pressure
- ▶ Deluxe ventilation fan with light
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-extension branch
- ▶ LEDs with low power consumption

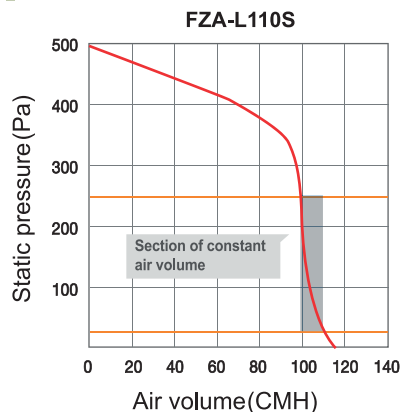


Conformity  
European  
Marking

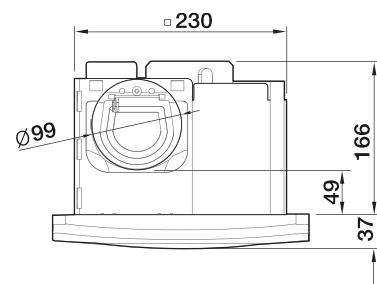


Example ▶ Model. FZA-L110S

### Performance

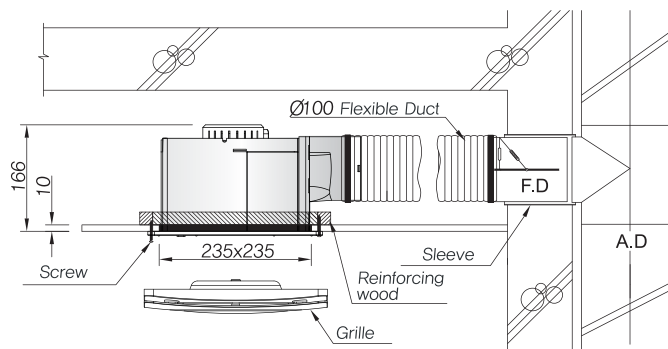


### Dimension



**Installation Size**  
235X235mm(±5mm)

### Installation

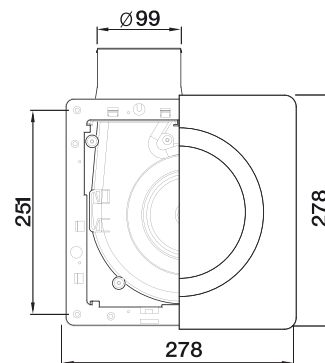


### Grille



LED Light GRILLE  
Size 278(W)X278(D)

### Dimension of Grille



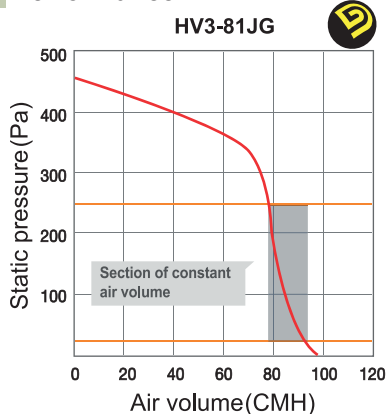
MODEL	FZA-L110S(LED)
Static Pressure	25~250Pa
Constant Air Volume	110CMH (64.7CFM)
Air Volume	103.3~119.2CMH (60.8~70.2CFM)
Power Consumption	Ventilation fan: 40W / LED light: 9W
Noise (at 1m)	39dB
Intensity of Illumination	130~150Lux
Size	Main Body 278(W) X 278(D) X 166(H)mm / Grill 278
Weight	3.0kg
Options	Multi-expansion Branch

※ The specification and the performance may be changed for improvement without notice.

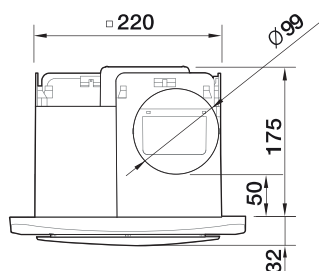
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## Ventilation Fan with High Static Pressure (and LED light)

### Performance



### Dimension



**Installation Size**  
225X225mm(±5mm)



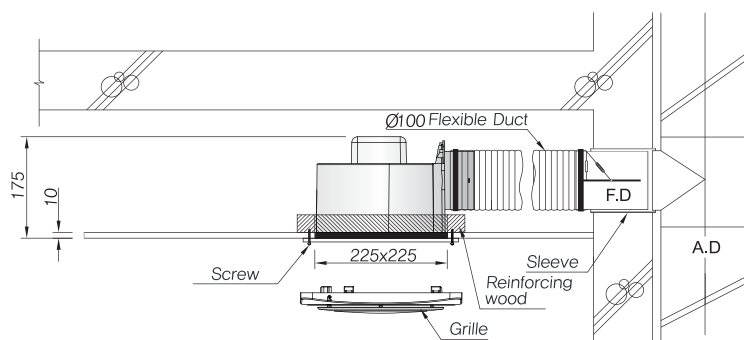
### HV3-81JG

- ▶ Constant air volume and high static pressure
- ▶ Ventilation fan with light
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-extension branch
- ▶ LEDs with low power consumption
- ▶ Acquisition certification of Good Design (GD)

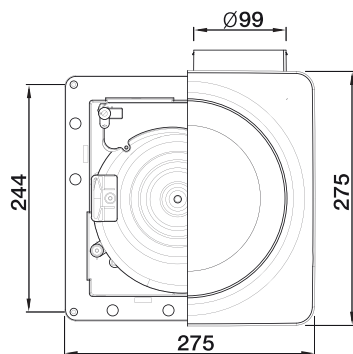


GOOD DESIGN

### Installation



### Dimension of Grille



### Grille



LED Light ON

Size 275(W)X275(D)



LED Light OFF

Size 275(W)X275(D)

MODEL	HV3-81JG(LED)
Static Pressure	25~250Pa
Constant Air Volume	85CMH (50CFM)
Air Volume	78~92CMH
Power Consumption	Ventilation fan: 35W / LED light : 11W
Noise (at 1m)	39dB
Intensity of Illumination	130~150Lux
Size	Main Body 275(W) X 275(D) X 175(H)mm / Grill 275
Weight	2.6kg
Options	Power Lamp (L)

※ The specification and the performance may be changed for improvement without notice.

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## Ventilation Fan with Medium Static Pressure (high air volume)



### HV-180, HV-220

- ▶ High air volume
- ▶ Low noise level
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branch



Conformity  
European  
Marking



High Efficiency Energy  
Equipment

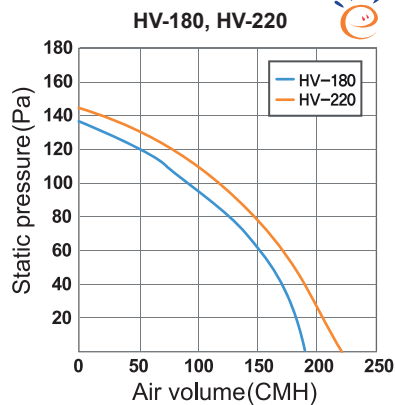


Size 320(W)X320(D)

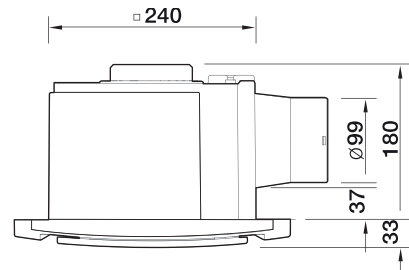


Size 320(W)X320(D)

### Performance

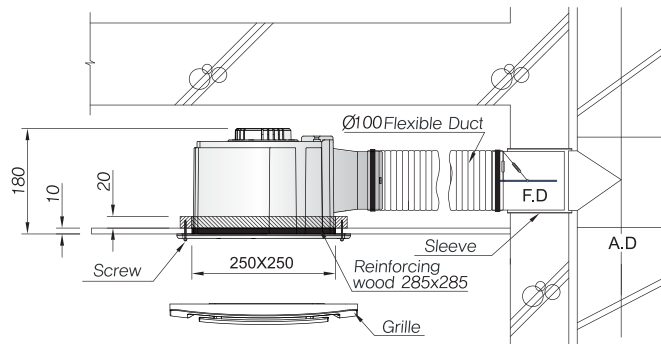


### Dimension



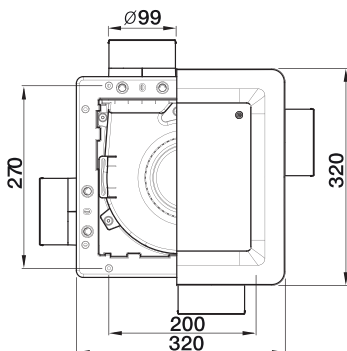
**Installation Size**  
250X250mm(±5mm)

### Installation



※ **CAUTION:** The thickness of the reinforcing wood should not exceed 20mm.

### Dimension of Grille

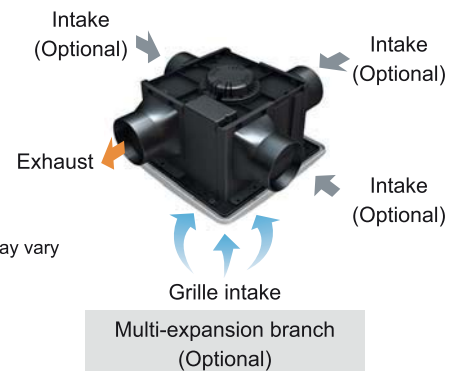


### Expansion Branch

#### Air volume ratio for branching (%)

Branch type	2 Branches
Grille	70 %
Expansion branch	30 %

※ The ratio is for a flexible duct within 2m and may vary according to the installation condition.



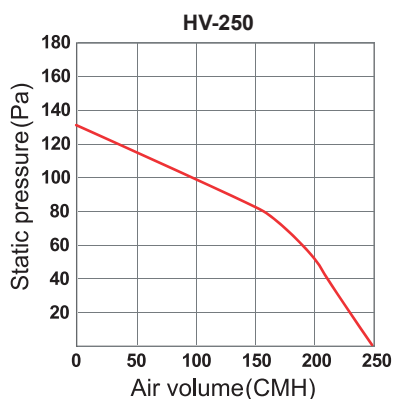
MODEL	HV-180(high efficiency)	HV-220(high efficiency)
Air Volume	180CMH (109.9CFM)	220CMH (117.7CFM)
Power Consumption	30W	31W
Noise (at 1m)	36dB	40dB
Size	Main Body 320(W) X 320(D) X 180(H)mm / Grille 320	
Weight	2.7kg	
Option	Multi-Expansion Branch, Power Lamp (L)	

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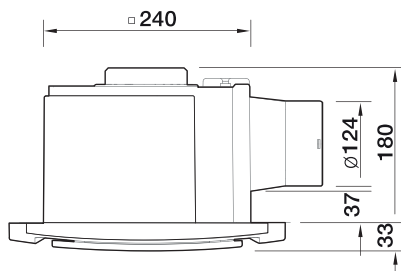
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## Ventilation Fan with Medium Static Pressure (high air volume)

### Performance



### Dimension



**Installation Size**  
250X250mm(±5mm)

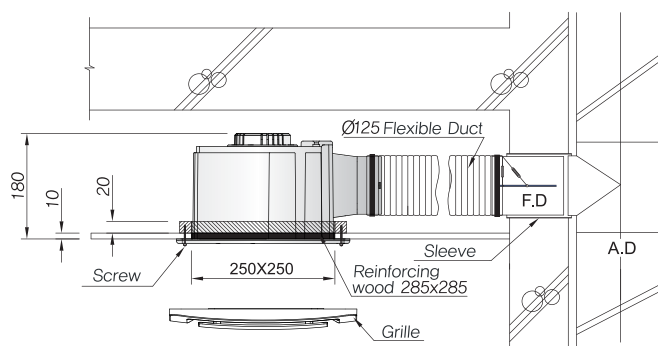


### HV-250

- ▶ High air volume
- ▶ Low noise level
- ▶ Highly air tight damper preventing back flow
- ▶ Multi-expansion branch



### Installation



※ **CAUTION:** The thickness of the reinforcing wood should not exceed 20mm.



Size 320(W)X320(D)



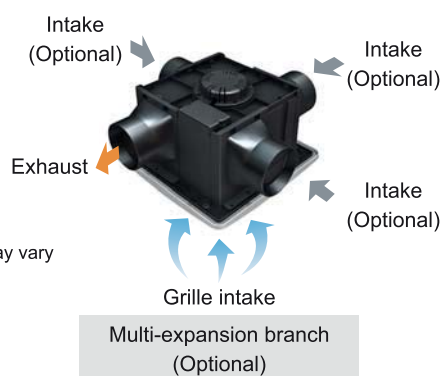
Size 320(W)X320(D)

### Expansion Branch

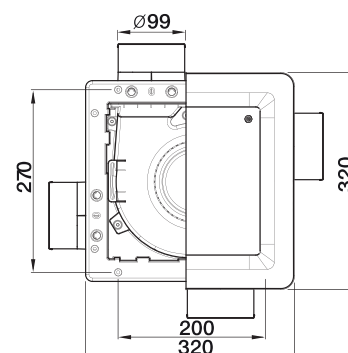
Air volume ratio for branching (%)

Branch type	2 Branches
Grille	70 %
Expansion branch	30 %

※ The ratio is for a flexible duct within 2m and may vary according to the installation condition.



### Dimension of Grille



MODEL	HV-250
Air Volume	250CMH (147.1CFM)
Power Consumption	39W
Noise (at 1m)	46dB
Size	Main Body 320(W) X 320(D) X 180(H)mm / Grille 320
Weight	2.7kg
Option	Multi-Expansion Branch, Power Lamp (L)

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 230V at 50Hz and different results may result in other country in accordance with its standards.

## Ventilation Fan with Medium Static Pressure (High Efficiency)



### FZA-70S1

- ▶ Jet turbo impeller
- ▶ Super powerful magnetic damper preventing back flow
- ▶ Wide range of installation size (□125~□165)

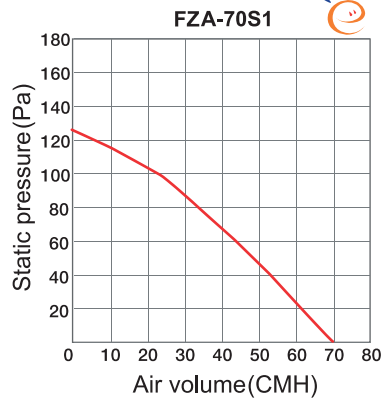


Conformity  
European  
Marking

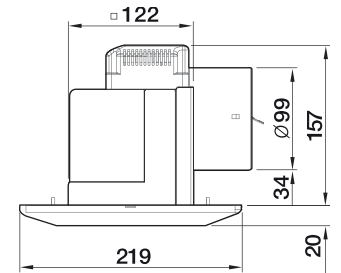


High Efficiency  
Energy Equipment

#### Performance

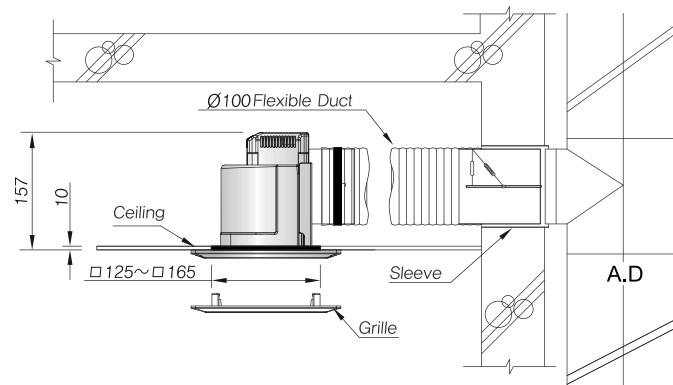


#### Dimension



Installation Size: □125~□165mm

#### Installation



#### Grille



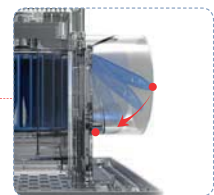
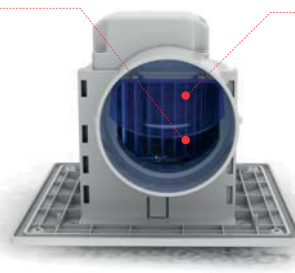
FZA-70S1  
Size 219(W)X219(D)

#### Features



##### Jet turbo impeller

High performance and low noise level realized with optimum design of air flow



##### Anti-back flow magnetic damper

Foul odor prevented by employing neodymium magnet damper

MODEL	FZA-70S1
Air Volume	70CMH (41.2CFM)
Power Consumption	16.5W
Noise (at 1m)	36.5dB
Size	Main Body 219(W) X 219(D) X 157(H)mm
Weight	1.2kg

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.



## Ventilation Fan with Low Static Pressure

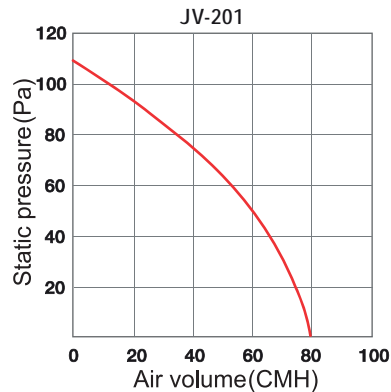


### JV-201

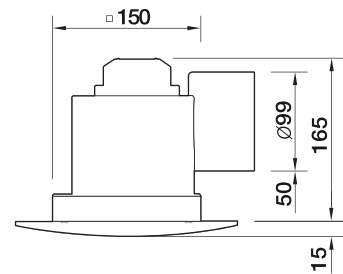
- ▶ Centrifugal multi-blade fan
- ▶ Low noise level
- ▶ Highly air tight damper preventing back flow



### Performance

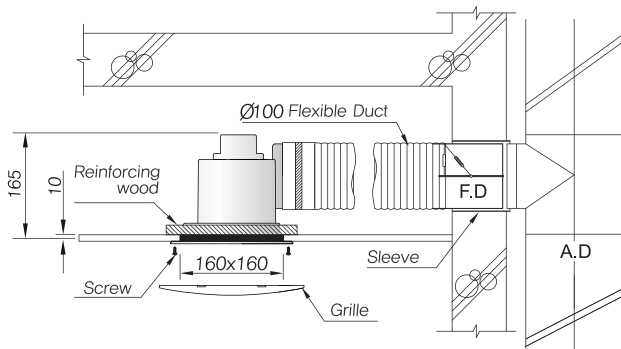


### Dimension

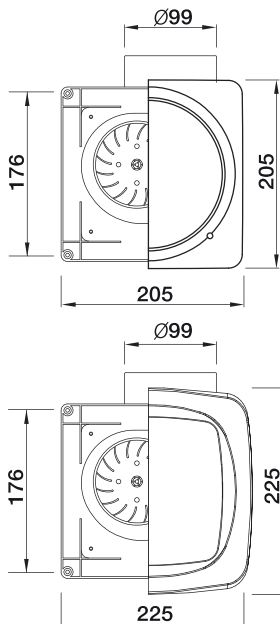


**Installation Size**  
160X160mm(±5mm)

### Installation



### Dimension of Grille



### Grille



JV-201M

Size 205(W)X205(D)



JV-201C

Size 195(W)X225(D)



JV-201S

Size 225(W)X225(D)



JV-201T

Size 208(W)X208(D)

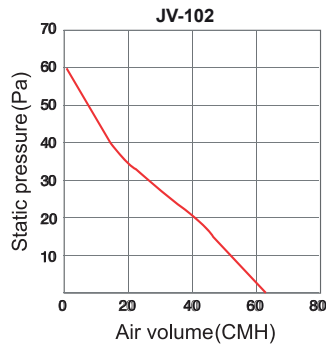
MODEL	Air Volume	Power Consumption	Noise (at 1m)	Weight
JV-201M, JV-201C	80CMH (47.1CFM)	12W	38dB	0.9kg
JV-201S, JV-201T				

※ The specification and the performance may be changed for improvement without notice.

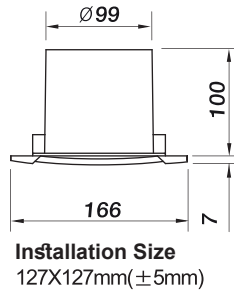
※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

## Ventilation Fan with Low Static Pressure

## Performance



## Dimension



## Grille



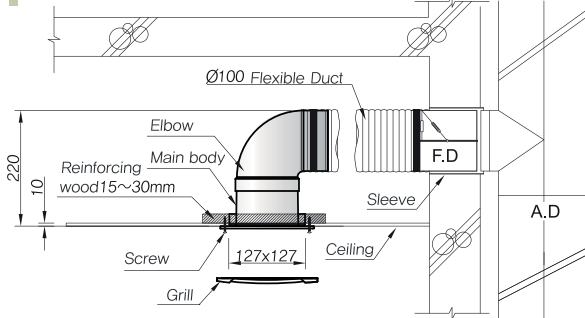
JV-102  
Size 170(W)X170(D)



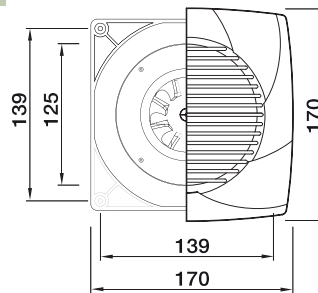
**JV-102**

► Axial-flow turbo fan

## Installation



## Dimension of Grille



## Anti-backflow damper



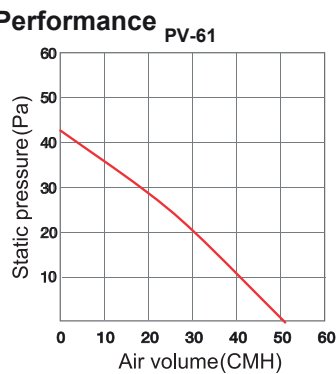
<Straight type>

<Elbow type>

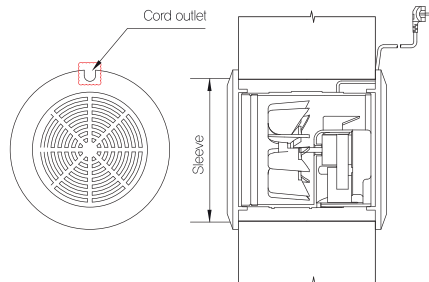
MODEL	Air Volume	Power Consumption	Weight	Noise(at 1m)
JV-102	60CMH (35.3CMF)	10W	0.64kg	38dB

## Ventilation Fan with Low Static Pressure (Pipe Fan)

## Performance



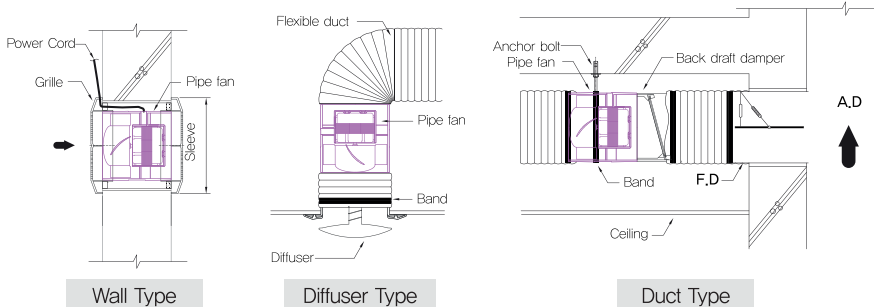
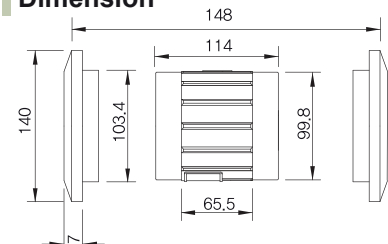
## Installation



**PV-61**

- Multipurpose pipe fan
- Enhanced durability by application of ball bearings
- Installation on various places including ceiling and wall made possible by its compact size and light weight

## Dimension

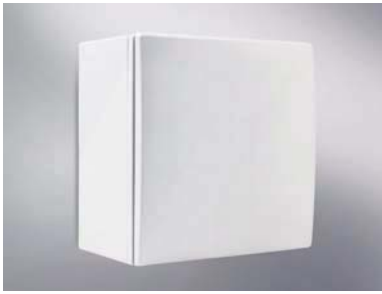


MODEL	Air Volume	Power Consumption	Weight	Noise(at 1m)
PV-61	50CMH	15W	640g	38dB

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

## Ventilation Fan with High Static Pressure (constant air volume, wall mounted type)



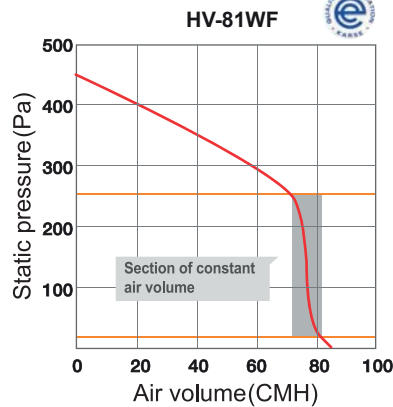
### HV-81WF

- ▶ Constant air volume and high static pressure
- ▶ Wall mounted type
- ▶ Highly air tight damper preventing back flow
- ▶ Easy installation  
(Rotational 360 degrees, can be installed in 4 directions)
- ▶ Acquisition certification of Ventilation Fan with Constant Air Volume for Bathroom

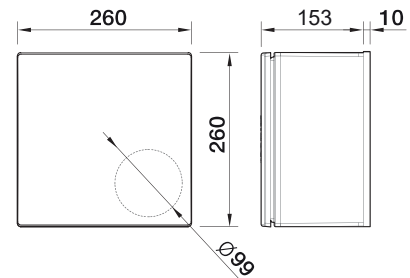


Ventilation Fan with  
Constant Air Volume for  
Bathroom

#### Performance

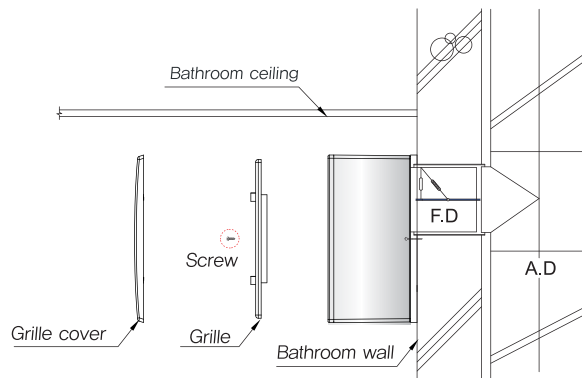


#### Dimension

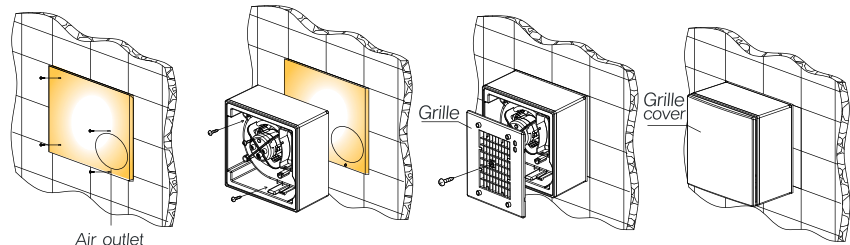
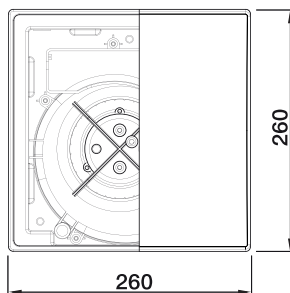


#### Installation Size

#### Installation



#### Dimension of Grille



1. Install the fixing board on the exhaust pipe (with 4 screws).

2. Fix the main body to the fixing board (with 3 screws).

3. Fix the grille to the main body.

4. Install the grille cover

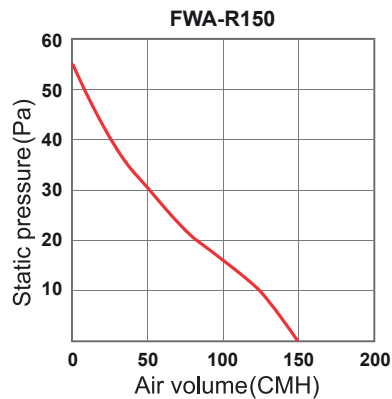
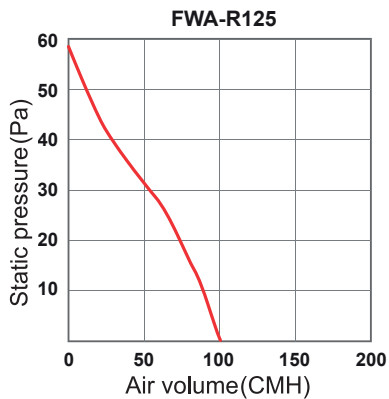
MODEL	HV-81WF (constant air volume, wall mounted type)
Static Pressure	25~250Pa
Constant Air Volume	75CMH (44.1CFM)
Air Volume	67.5~82.5CMH (39.7~48.6CFM)
Power Consumption	33W
Noise (at 1m)	38.7dB
Weight	3.3kg
Options	—

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

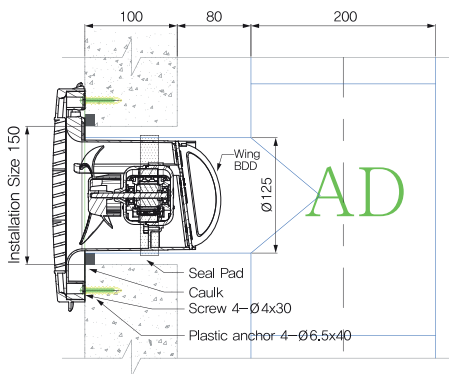
## Wall mount Ventilation Fan

### Performance

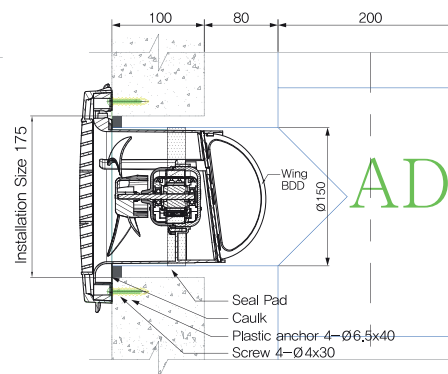


### Installation

[ FWA-R125D100 ]



[ FWA-R125D150 ]



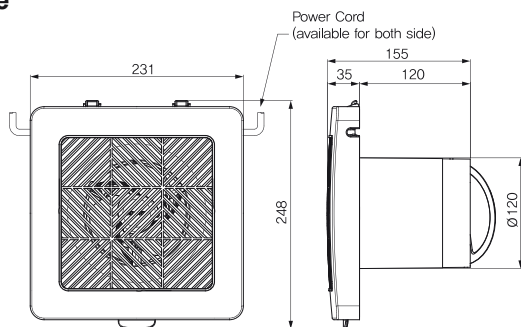
**FWA-R125D100**



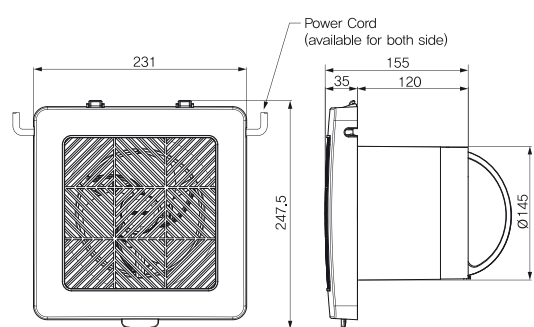
**FWA-R125D150**

- ▶ Highly air tight damper preventing back flow
- ▶ Low power consumption low noise
- ▶ Easy installation
- ▶ Simple and luxurious design
- ▶ Duct type

### Grille



[ FWA-R125D100 ]



[ FWA-R125D150 ]

MODEL	FWA-R125D100	FWA-R125D150
Static Pressure	59Pa	55Pa
Air Volume	100CMH (58.9CFM)	150CMH (88.3CFM)
Power Consumption	22W	25W
Noise (at 1m)	45dB	45dB
Size	231(W) x 155(D) x 248(H)mm	231(W) x 155(D) x 248(H)mm
Weight	1.1kg	1.1kg

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 230V at 50Hz and different results may result in other country in accordance with its standards.

## Wall mount Ventilation Fan



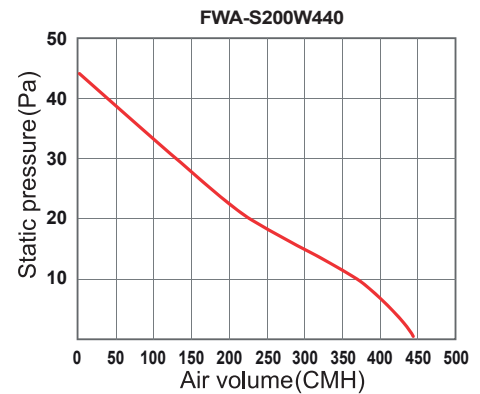
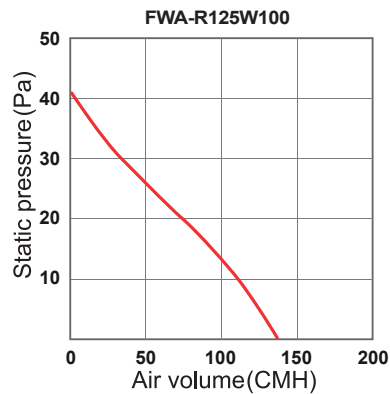
**FWA-R125W100**



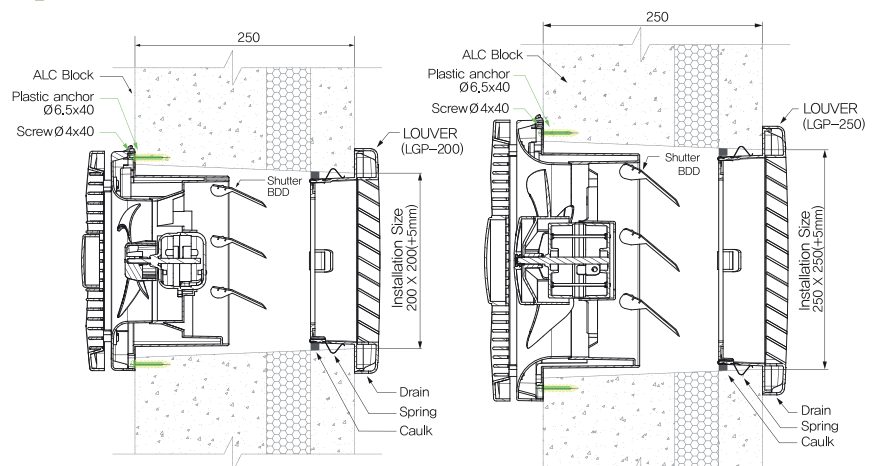
**FWA-S200W440**

- ▶ Preventing inflow of dust and sand with gravity shutter
- ▶ Low power consumption low noise
- ▶ Easy installation
- ▶ Simple and luxurious design
- ▶ Wallmounted type

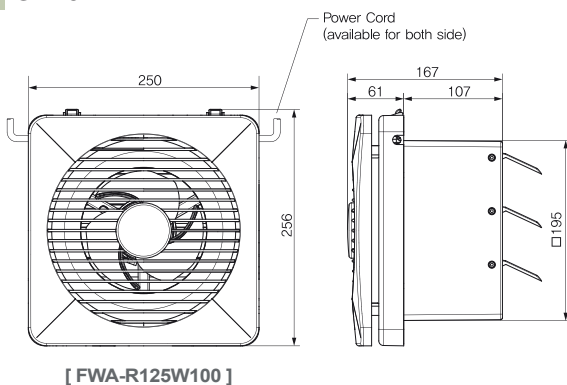
### Performance



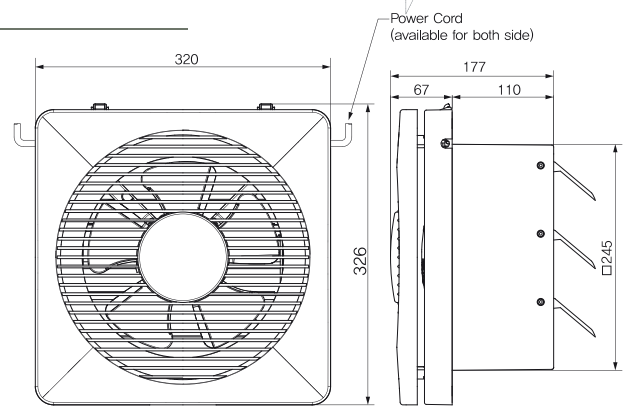
### Installation



### Grille



[ FWA-R125W100 ]



[ FWA-S200W440 ]

MODEL	FWA-R125W100	FWA-S200W440
Static Pressure	41Pa	44Pa
Air Volume	140CMH (82.4CFM)	440CMH (259CFM)
Power Consumption	25W	32W
Noise (at 1m)	45dB	45dB
Size	250(W) x 168(D) x 256(H)mm	320(W) x 177(D) x 326(H)mm
Weight	1.5kg	2.7kg

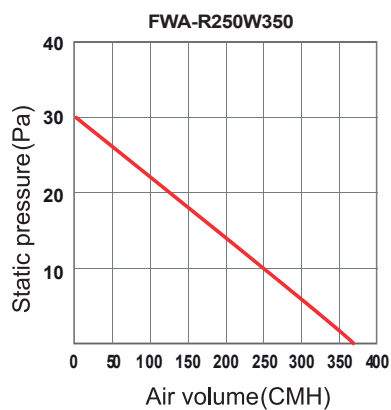
※ The specification and the performance may be changed for improvement without notice.

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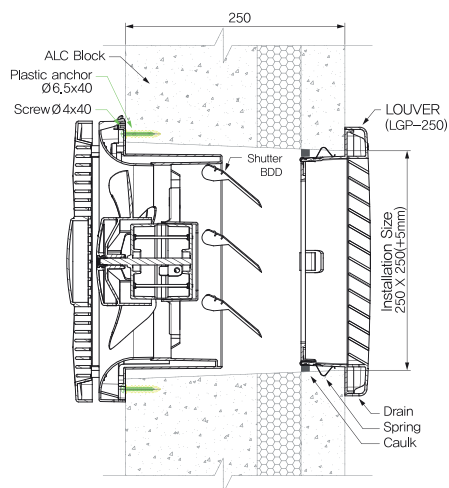
## Wall mount Ventilation Fan

### Performance



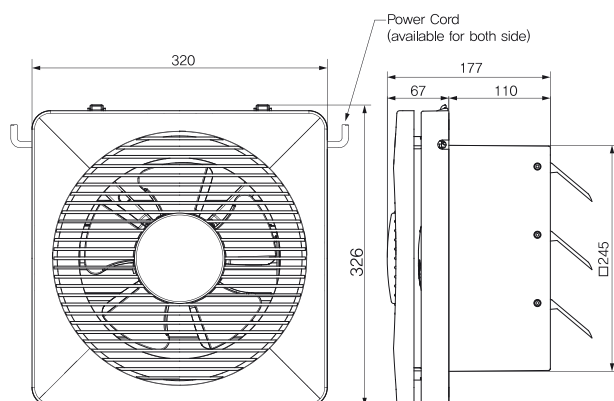
**FWA-S250W350**

### Installation



- ▶ Preventing inflow of dust and sand with gravity shutter
- ▶ Low power consumption low noise
- ▶ Easy installation
- ▶ Simple and luxurious design
- ▶ Wallmounted type

### Grille



MODEL	FWA-R250W350
Static Pressure	30Pa
Air Volume	350CMH (206CFM)
Power Consumption	20W
Noise (at 1m)	35dB
Size	320(W) x 177(D) x 326(H)mm
Weight	2.7kg

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 230V at 50Hz and different results may result in other country in accordance with its standards.

## Thermo Ventilator

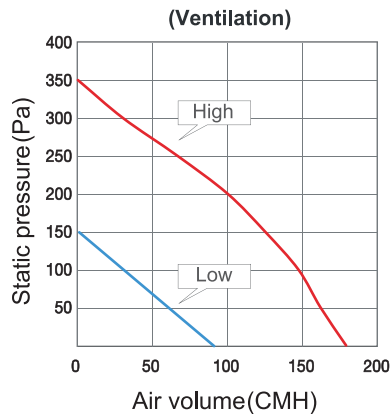


### FHA-P180S

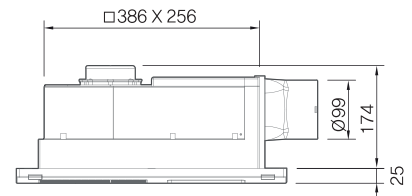
- ▶ Triple safety system(bimetal, temperature sensor and fuse)
- ▶ Anti-backflow damper of odor (patented)
- ▶ Air volume control in two steps
- ▶ Pre- filter
- ▶ Remote controller
- ▶ PTC heater
- ▶ Super Plasma Ion



#### Performance



#### Dimension



**Installation Size**  
390X260mm(±5mm)

#### Features



Ventilation



Drying



Air Cleaning



Heating

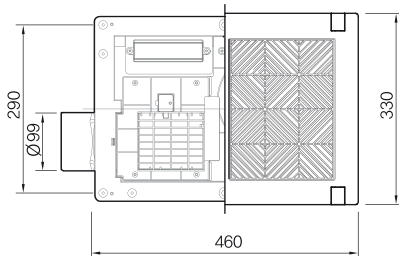


Hair drying



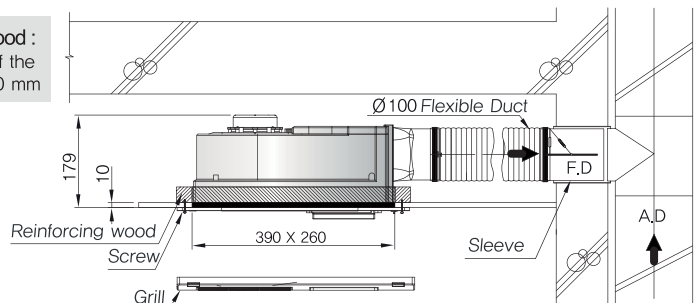
Circulation

#### Drawing of Grille



#### Installation

Reinforcing wood :  
Note) Height of the wood: below 40 mm



※ **SPI (Super Plasma Ion)**  
**cleans air.**

It eliminates or neutralizes harmful substances and provides health air.

It decomposes moisture in the air to generate a large amount of active hydrogen ions and oxygen ions that remove viruses and substances that cause allergic reaction.

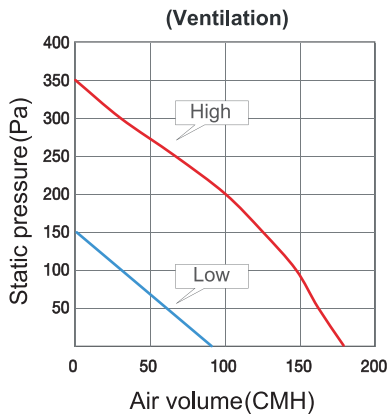
Item		Heating	Drying	Circulation	Ventilation	Hair drying
Air Volume (CMH / CFM)	H	Circulation 150/88.3	Ventilation 80/47.1 Circulation 110/64.7	Ventilation 80/47.1 Circulation 110/64.7	180/105.9	Circulation 200/117.7
	L	Circulation 110/64.7	—	—	89/52.4	Circulation 200/117.7
Power Consumption (W)	H	1,700	1,600	65	64	1,800
	L	1,000	—	—	45	84(Circulation)
Noise (dB) (at 1m)	H	52	54	54	49	58
	L	45	—	—	36.5	58
Static Pressure (Pa)	H	—	130	130	350	—
	L	—	—	—	150	—
Size		Main Body 460(W) X 330(D) X 174(H)mm				
Connection Duct		Exhaust: Ø100mm				
Weight		5.5Kg				

※ The specification and the performance may be changed for improvement without notice.

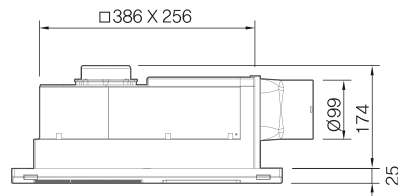
※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

## Thermo Ventilator

### Performance



### Dimension

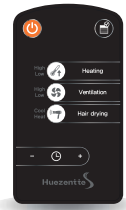


**Installation Size**  
390X260mm(±5mm)



### FHA-S180S

- ▶ Triple safety system(bimetal, temperature sensor and fuse)
- ▶ Anti-backflow damper of odor (patented)
- ▶ Air volume control in two steps
- ▶ Pre- filter
- ▶ Remote controller
- ▶ PTC heater
- ▶ Super Plasma Ion



### Features



Ventilation



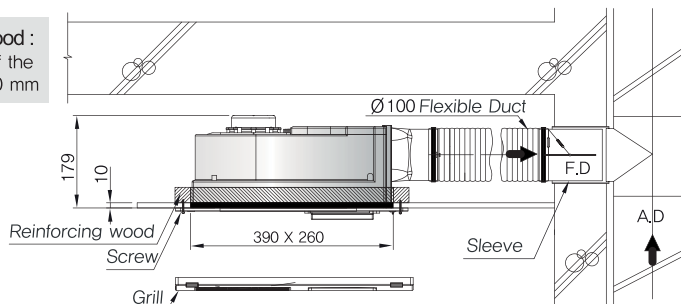
Heating



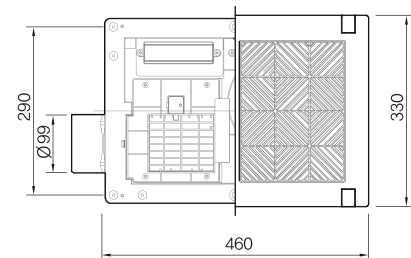
Hair drying

### Installation

Reinforcing wood :  
Note) Height of the wood: below 40 mm



### Drawing of Grille



Item		Heating	Ventilation	Hair drying
Air Volume (CMH / CFM)	H	Circulation 150/88.3	180/105.9	Circulation 200/117.7
	L	Circulation 110/64.7	89/52.4	Circulation 200/117.7
Power Consumption (W)	H	1,700	64	1,800
	L	1,000	45	84(Circulation)
Noise (dB) (at 1m)	H	52	49	58
	L	45	36.5	58
Static Pressure (Pa)	H	—	350	—
	L	—	150	—
Size		Main Body 460(W) X 330(D) X 174(H)mm		
Connection Duct		Exhaust: Ø100mm		
Weight		5.5Kg		

※ The specification and the performance may be changed for improvement without notice.

※ This figure is the result of tests under 220V at 60Hz which is the Korean electricity standard and different results may result in other country in accordance with its standards.

## ■ Ventilation System

This is a system that discharges polluted indoor air out of the room and takes fresh outdoor air into the room to maintain healthy quality of indoor air.

It includes heat recovery unit, air supply system, exhaust system.



## ■ Subsidiary Materials for Ventilation

All the materials that are installed to assist the effective ventilation, prevent the spread of toxic substances due to fire and infiltration of polluted air, rain or dirt into the indoor, or connected to secure path of air flow





## A noise reduction device between the floors of apartment house bathroom

### A noise cutoff type vent

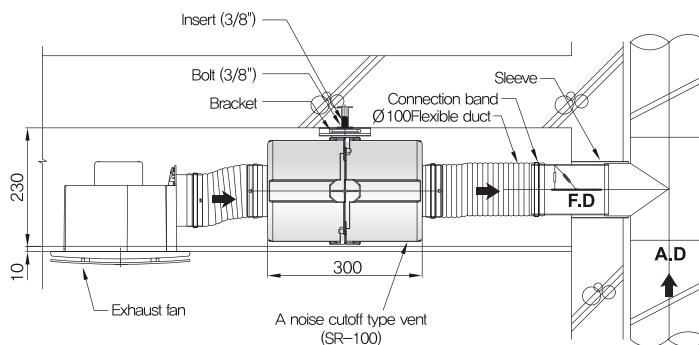
#### What is a noise cutoff type vent?

- The noise cutoff type vent is the vent that makes the ventilation possible and simultaneously gets the noise reduced in the constantly opened state.
- By applying a reduction device against noise between the floors of apartment house bathroom, additional marks of 2 points are secured under the housing performance certification and management standard (bathroom noise).
- The experimental result conducted by Korea Testing Certification show the noise was reduced 6dB. **ICTC**

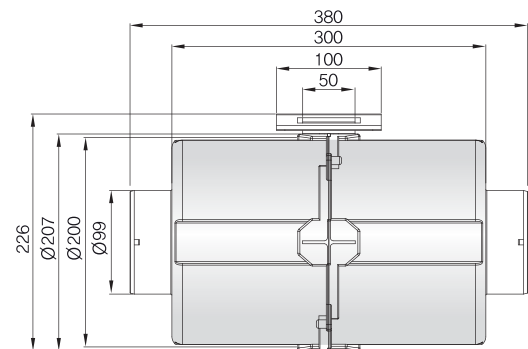


SR-100

### Installation



### Drawing of Grill



### Housing performance certification and management standard – Bathroom noise

#### Rating indicator

Grade	Grade standard
★★★★	Over 9 points
★★★	Over 7 points, below 8 points
★★	Over 5 points, below 6 points
★	below 4 points

#### Additional marks table

Noise reduction engineering method	Points
Water supply pressure by household is kept below 2.5kg/cm <sup>2</sup>	3
Water saving type toilet lavatory is adopted	2
Execution of insulation such as shock-absorbing material etc on the piping piercing part	1
A low noise type drainpipe is used	2
The corresponding floor plumbing method of the sewage . drainpipe is adopted	4
<b>Prevention scheme against noise transmission between the up &amp; down floors through an Air Duct for exhaust is established</b>	2

Prevention scheme against noise transmission between the up & down floors through an Air Duct for exhaust means a case that installed an independent air supply exhaust pipe, a case that arranged the vent between the neighboring up & down floors not to pass through each other directly and a case that installed a noise cutoff type vent etc. The noise cutoff type vent here means a vent that the noise cutoff performance difference is over 5dB(A) compared with other general vent.

# DIFFUSER

## Internal Damper Type Diffuser

DGW-100D

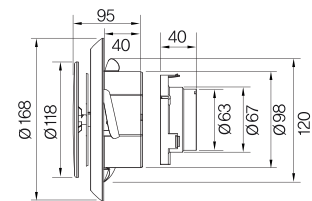
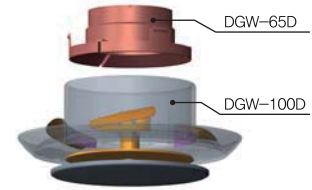


### Internal air volume control damper

- 7 steps air volume control
- Easy press in installation
- Inner connection reducer(63~67mm)

#### ■ Specification

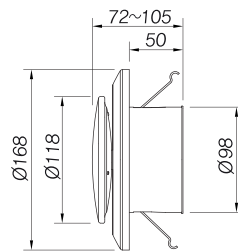
- Connection duct :  $\varnothing 100$  /  $\varnothing 63\sim 67$
- Material : ABS
- Mounting opening dimension :  $\varnothing 120$



DGH-100R



### Dimension/Specification



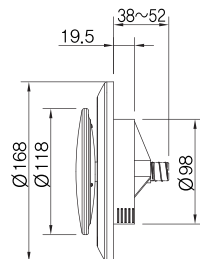
#### ■ Specification

- Connection duct :  $\varnothing 100$
- Material : ABS
- Mounting opening dimension :  $\varnothing 120$

DGS-100P Slim Type



### Dimension/Specification



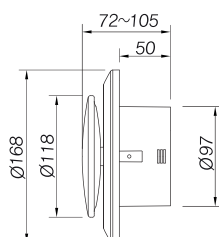
#### ■ Specification

- Connection duct :  $\varnothing 100$
- Material : ABS
- Mounting opening dimension :  $\varnothing 120$

DGS-100R



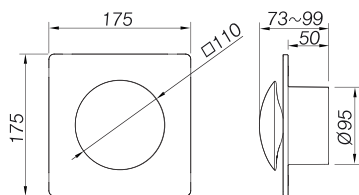
### Dimension/Specification



#### ■ Specification

- Connection duct :  $\varnothing 100$
- Material : ABS
- Mounting opening dimension :  $\varnothing 120$

### Dimension/Specification



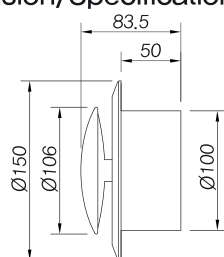
#### ■ Specification

- Connection duct : Ø100
- Material : ABS
- Mounting opening dimension : Ø120

DGS-100S



### Dimension/Specification



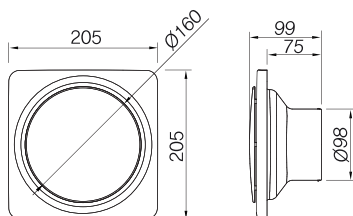
#### ■ Specification

- Connection duct : Ø100
- Material : ABS
- Mounting opening dimension : Ø120

DGS-100F



### Dimension/Specification



#### ■ Specification

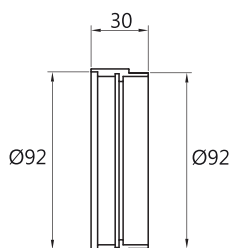
- Connection duct : Ø100
- Material : ABS
- Mounting opening dimension : 160X160(±5mm)

DGS-100M



## DIFFUSER FILTER

### Dimension/Specification



#### Available Model

DGS-100S

#### ■ Specification

- Connection duct : Ø100
- Material : ABS

DPP-100E



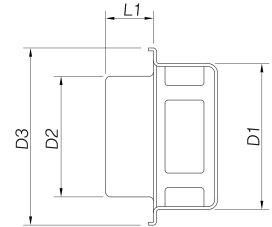
# VENT CAP



## Ventilator (Wind fence type) Specification

□ Material : Al (Powder Coating)

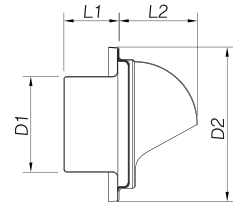
Model	Dimension	D1(Ø)	D2(Ø)	D3(Ø)	L1(mm)
VCW-75	Ø75	100	73	120	40
VCW-100	Ø100	122	98	146	45
VCW-125	Ø125	150	123	182	50
VCW-150	Ø150	182	148	210	50
VCW-200	Ø200	250	198	300	80
VCW-250	Ø250	250	248	300	80



## Ventilator (General type) Specification

□ Material : Al (Powder Coating) / SUS

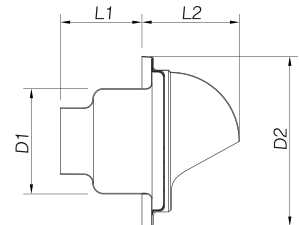
Model	Dimension	D1(Ø)	D2(Ø)	L1(mm)	L2(mm)
VCS-75	Ø75	73	120	40	80
VCS-100	Ø100	98	144	45	80
VCS-125	Ø125	123	180	50	100
VCS-150	Ø150	148	180	50	100
VCS-200	Ø200	198	300	80	185
VCS-250	Ø250	248	300	80	185
VCS-300	Ø300	295	400	100	200
VCS-350	Ø350	345	400	100	200



## Ventilator (Reducer type) Specification

□ Material : Al(Powder Coating)

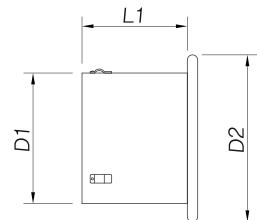
Model	Dimension	D1, D2, L1, L2(mm)
VCS-100R	Ø100~ Ø300	Customized



## Vent Cap (Mesh type) Specification

□ Material : Al(Powder Coating)

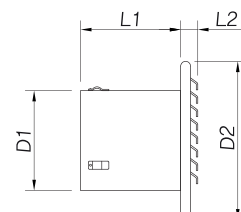
Model	Dimension	D1(Ø)	D2(Ø)	L1(mm)
VCM-50	Ø50	50	70	40
VCM-75	Ø75	73	90	40
VCM-100	Ø100	98	120	40



## Ventilator (Louver type) Specification

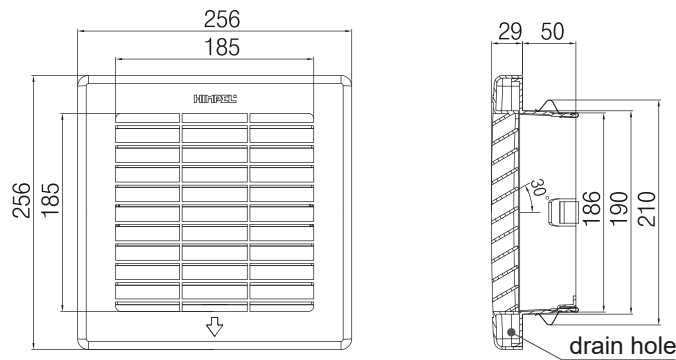
□ Material : Al(Powder Coating)

Model	Dimension	D1(Ø)Outer diameter of the connection	D2(Ø)	L1(mm)	L2(mm)
VCL-75	Ø75	73	144	40	12
VCL-100	Ø100	98	144	45	12
VCL-125	Ø125	123	182	50	12
VCL-150	Ø150	147	182	50	12
VCL-200	Ø200	197	300	80	12



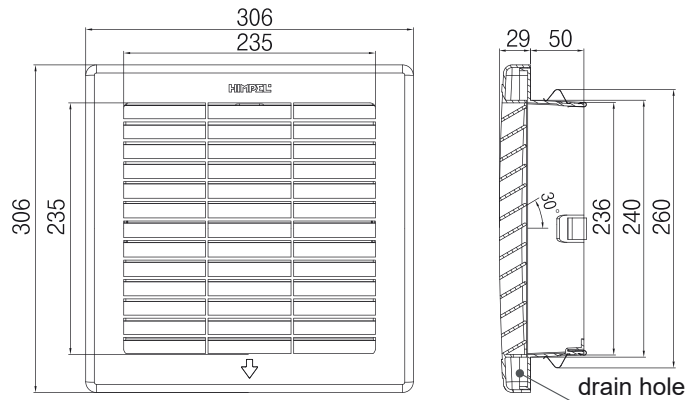
# LOUVER

## Dimension (LGP-200)



Installation Size : □200mm

## Dimension (LGP-250)



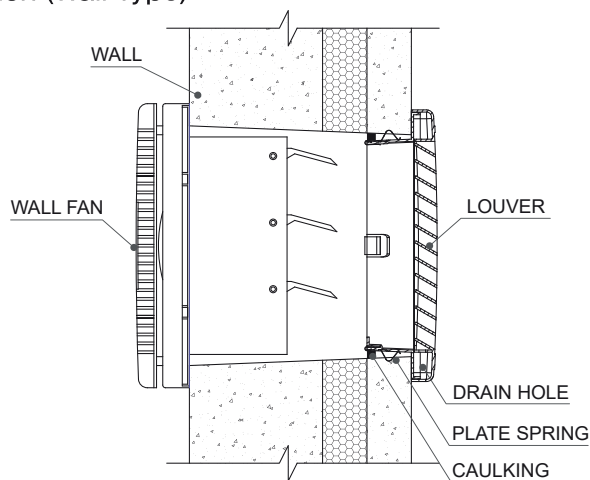
Installation Size : □250mm



LGP-250  
LGP-200

- ▶ Easy installation & maintenance
- ▶ High stability
- ▶ Simple & Modern Design

## Installation (Wall Type)



Model	LGP-250		LGP-200	
Size	306mm x 306mm		256mm x 256mm	
Material	LOUVER		Polypropylene + UV stabilizer	
	Plate Spring		Stainless steel plate	

# FLEXIBLE



## SK-A2 (Al Foil 2P)

- Material: Aluminum Foil/Polyester Film Laminated x 2ply/Copper Galvanized Steel Wire
- Adhesive: Self hardening Type
- Service Temperature/Pressure:  $-30^{\circ}\text{C}$ – $120^{\circ}\text{C}$ / 30m/sec
- Size of Production: 50mm–Specified size
- Purpose: For apartment bathroom, air intake and exhaust/air conditioning facility for exhaust of kitchen range hood/air intake and exhaust in the hygiene facility



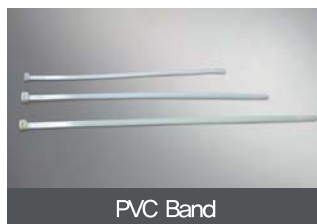
## SK-A2V (Al Foil 2P Sound Absorption/ used for the Korea Land & Housing Corporation)

- Material: Aluminum Foil for Mounting ole/Polyester Film Laminated x 2ply/Copper Galvanized Steel Wire/Damp-proof Outer Shell – Aluminum Foil, Vaper Barrier
- Adhesive: Self hardening Type
- Service Temperature/Pressure:  $-30^{\circ}\text{C}$ – $120^{\circ}\text{C}$ / 30m/sec
- Size of Production: 100mm–Specified size



## SK-A4 (Al Foil 4P)

- Material: Aluminum Foil/Polyester Film Laminated x 4ply/Copper Galvanized Steel Wire
- Adhesive: Self hardening Type/ Gluing both faces
- Service Temperature/Pressure:  $-30^{\circ}\text{C}$ – $140^{\circ}\text{C}$ / 30m/sec
- Size of Production: 50mm–Specified size
- Purpose: For air intake and exhaust in the smoke-proof air conditioning facility/ exhaust of kitchen range hood





A woman and two children are in a bathtub filled with white bubbles. The woman is in the background, smiling and looking towards the children. A young boy is sitting in the water, looking towards the camera. In the foreground, a young girl is lying on her stomach, looking directly at the camera with a smile. The scene is bright and cheerful, with natural light coming from a window in the background.

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because there is HIMPEL**

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at a bathroom even without window,  
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that even thinks of the family health.

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