

# Part 3

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# 1. FXF(Q)

## 1.1 BYCP125K-W1 — Decoration Panel

### 1. BEFORE INSTALLATION

#### 1. PRECAUTIONS

- Refer also to the installation manual attached to the indoor unit.

#### 2. ACCESSORIES

- Installation manual.

#### 3. NOTE TO INSTALLER

- Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

### 2. PREPARATION OF DECORATION PANEL

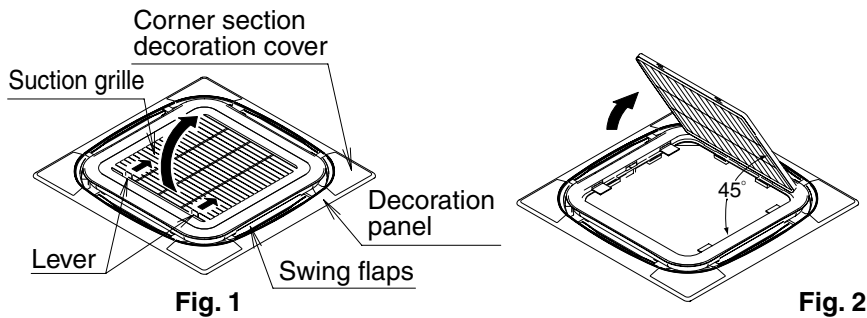
«For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase optional blocking pad kit.»

#### HANDLING OF DECORATION PANELS

- Never place the panel facing down nor lean it against a wall nor leave it on a projecting object.
- Never touch or put pressure on the swing flap.  
(The swing flap may malfunction)

(1) Remove the suction grille from the decoration panel.

- 1 Press the lever on the suction grille and lift the lever side. **(Refer to Fig. 1)**
- 2 Detach the suction grille from the decoration panel by lifting the grille up approximately 45 degrees. **(Refer to Fig. 2)**
- 3 Remove the transporting cardboard (in 4 locations) from the main unit. **(Refer to Fig. 3)**
- 4 Remove the transporting tape (in 4 locations) on the back of the suction grille. **(Refer to Fig. 4)**



3PA64319-13Q



## (2) Remove the corner section decoration cover.

- Lift the four corner decoration covers in the direction of the arrow and remove. (Refer to Fig. 5)

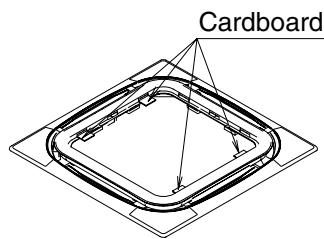


Fig. 3

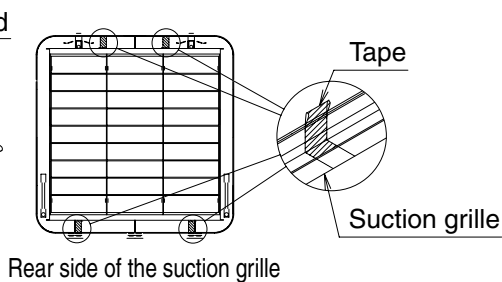


Fig. 4

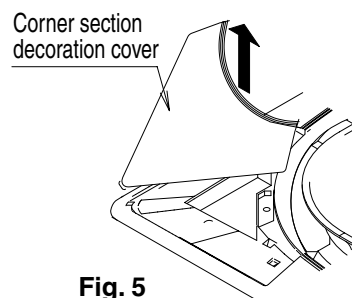


Fig. 5

### 3. INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT BODY

⟨⟨Refer to the installation manual attached to the indoor unit for the installation of the indoor unit. ⟩⟩

## (1) Match the “PIPING SIDE” and “DRAIN SIDE” displays on the decoration panel with the position of the piping section and drain section on the indoor unit.

## (2) Install the decoration panel

- 1 Temporarily install the decoration panel to the indoor unit by hanging the temporary latch of the decoration panel to the hook of the indoor unit body. (2 locations)
- 2 Hook the four mounting brackets on the corner sections of the decoration panels onto the hooks around the main indoor unit body.  
(Make sure at this time that the swing motor lead wire does not get caught between the decoration panel and the main unit.)
- 3 Screw all 4 hexagon head screws located right beneath the latches in approximately 5 mm. (Panel will rise)
- 4 Adjust the decoration panel by turning it to the arrowed direction in Fig. 6 so that the ceiling opening is completely covered.

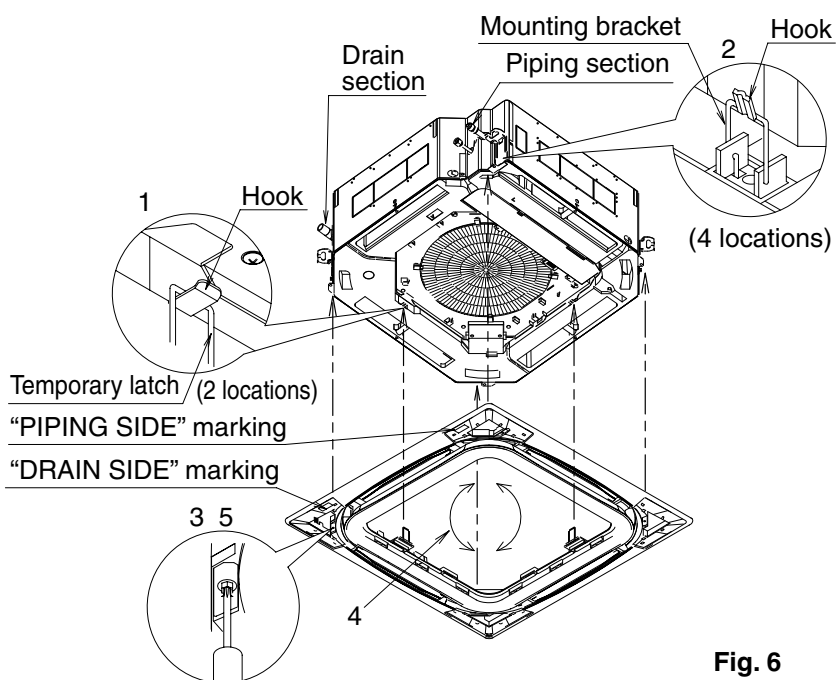
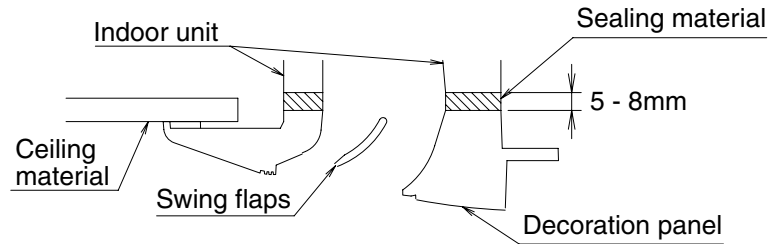


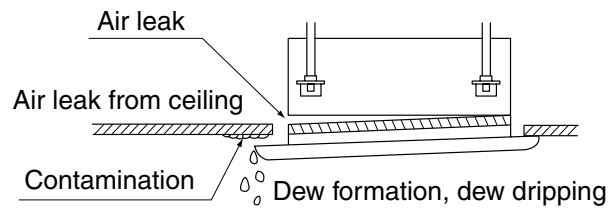
Fig. 6

- 5 Tighten the screws until the thickness of the sealing material between the decoration panel and the indoor unit body reduces to 5-8 mm.



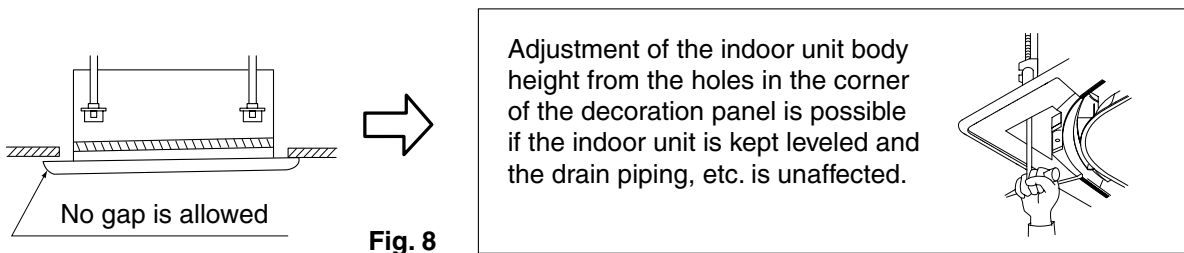
**[ PRECAUTIONS ]**

- Improper screwing of the screws may cause the troubles shown in Fig. 7. Screw properly.



**Fig. 7**

- If gap is still left between the ceiling and the decoration panel after screwing the screws, readjust the indoor unit body height. (Refer to Fig. 8)

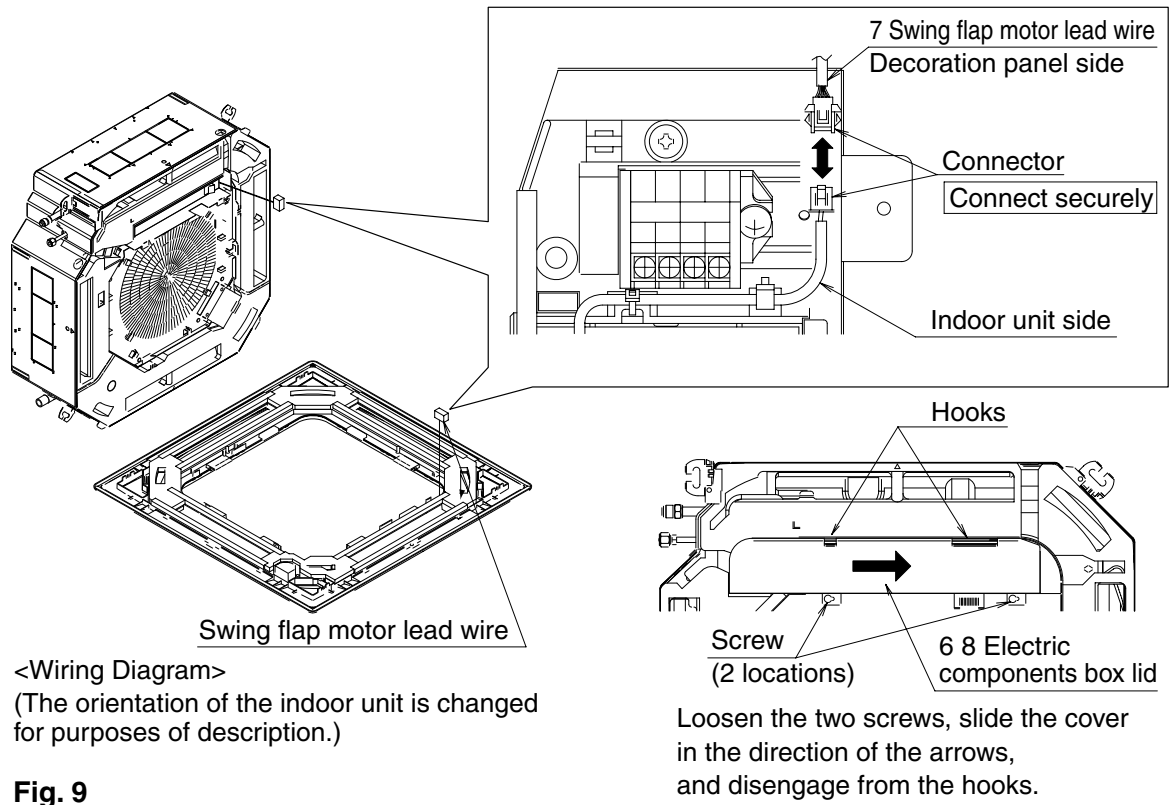


**Fig. 8**

**(3) Wiring of the decoration panel (Refer to Fig. 9)**

- 6 Remove the electric components box lid.
- 7 Connect the connectors for swing flap motor lead wire installed on the decoration panel.
- 8 Replace the electric components box lid reversing the procedure to remove it.

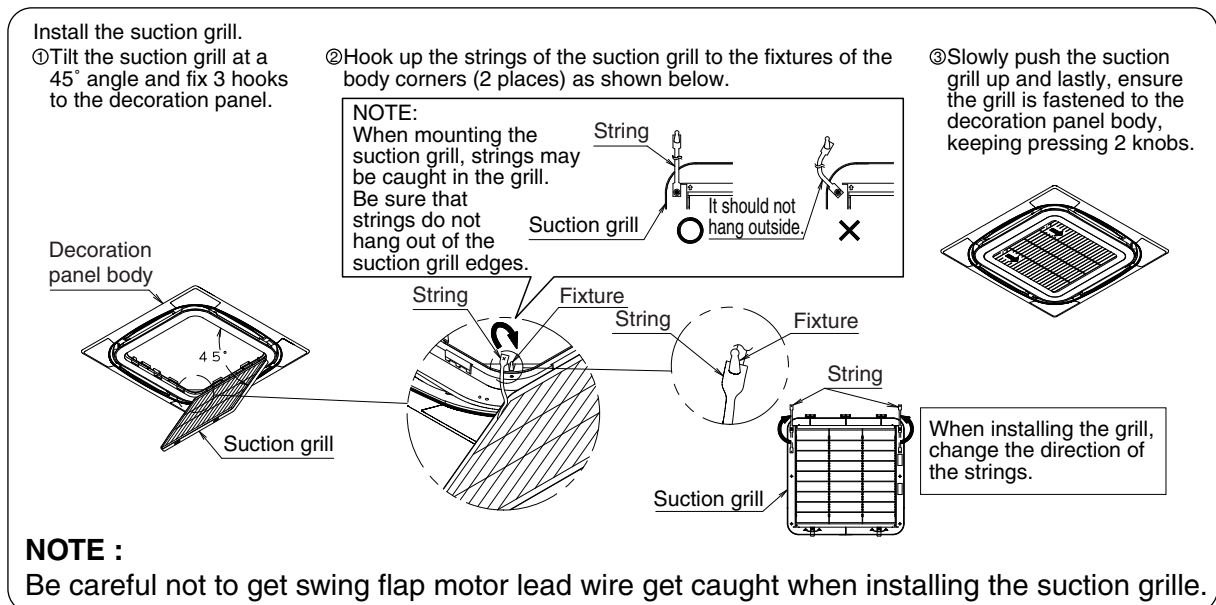
Make sure that the swing flap motor lead wire is not caught between the electric components box and its lid, and between the indoor unit body and the decoration panel.



#### 4. INSTALLATION OF SUCTION GRILLE AND SERVICE COVER

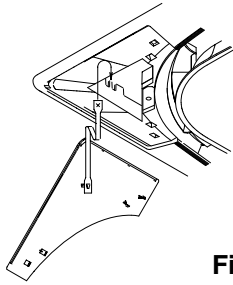
**(1) Install the suction grille**

Install by reversing the procedure shown in "PREPARATION OF DECORATION PANEL". It is possible to install the suction grille in 4 directions by turning the suction grille. Change the direction when adjusting the direction of the suction grille of multiple units or in meeting customers' demands.

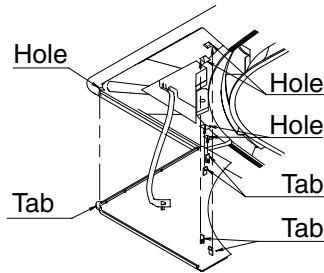


(2) Install the corner section decoration cover.

- 1 Attach the string of the corner section decoration cover to the pin of the decoration panel. **(Refer to Fig. 10)**
- 2 Install the corner section decoration cover over the decoration panel. **(Refer to Fig. 11)**



**Fig. 10**



Attach by inserting the five tabs on the corner section decoration cover into the holes on the decoration panel.

**Fig. 11**

C : 3PA64319-13Q

## 1.2 BYCP125D-W1 — Decoration Panel

### 1. BEFORE INSTALLATION

#### 1. PRECAUTIONS

- Refer also to the installation manual attached to the indoor unit.

#### 2. ACCESSORIES

- Installation manual.

#### 3. NOTE TO INSTALLER

- Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

### 2. PREPARATION OF DECORATION PANEL

⟨⟨ For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase optional blocking pad kit.⟩⟩

#### HANDLING OF DECORATION PANELS

- Never place the panel facing down nor lean it against a wall nor leave it on a projecting object.
- Never touch or put pressure on the swing flap.  
(The swing flap may malfunction)

- (1) Remove the swing flap motor lead wire on the back of the decoration panel from the hook.  
Push the wires outward to the frame surface and remove the wires from the hook in the middle.  
(Refer to Fig. 1)

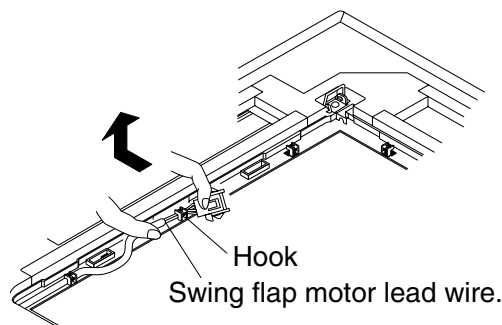


Fig. 1

- (2) Remove the suction grille from the decoration panel.

1 Push the suction grille lever inward and lift up the lever side. (Refer to Fig. 2)

2 Detach the suction grille from the decoration panel by lifting the grille up approximately 45 degrees. (Refer to Fig. 3)

- (3) Remove the service cover on the corner.

- Slide the service cover outward to remove. (Refer to Fig. 4)

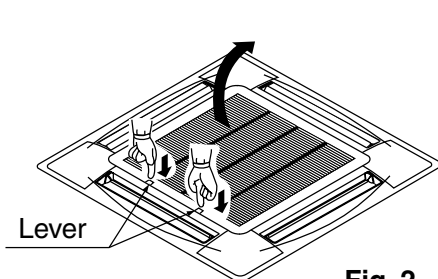


Fig. 2

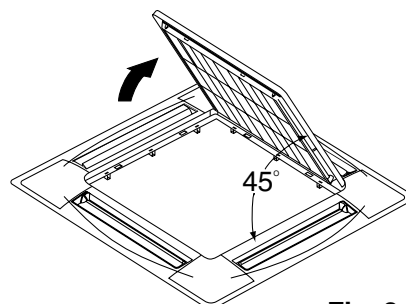


Fig. 3

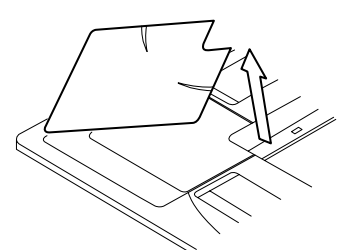


Fig. 4

C : 3PA64319-11M

### 3. INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT BODY

⟨⟨Refer to the installation manual attached to the indoor unit for the installation of the indoor unit. ⟩⟩

- (1) Match the “PIPING SIDE” and “DRAIN SIDE” displays on the decoration panel with the position of the piping section and drain section on the indoor unit.
- (2) Install the decoration panel
  - 1 Temporarily install the decoration panel to the indoor unit by hanging the latch on the opposite side of the swing flap motor of the decoration panel to the hook of the indoor unit body. (2 positions)
  - 2 Temporarily hang the remaining 2 latches to the hooks on the sides of the indoor unit. (Be careful not to let the swing motor lead wire get caught in the sealing material.)
  - 3 Screw all 4 hexagon head screws located right beneath the latches in approximately 5 mm. (Panel will rise)
  - 4 Adjust the decoration panel by turning it to the arrowed direction in Fig. 5 so that the ceiling opening is completely covered.

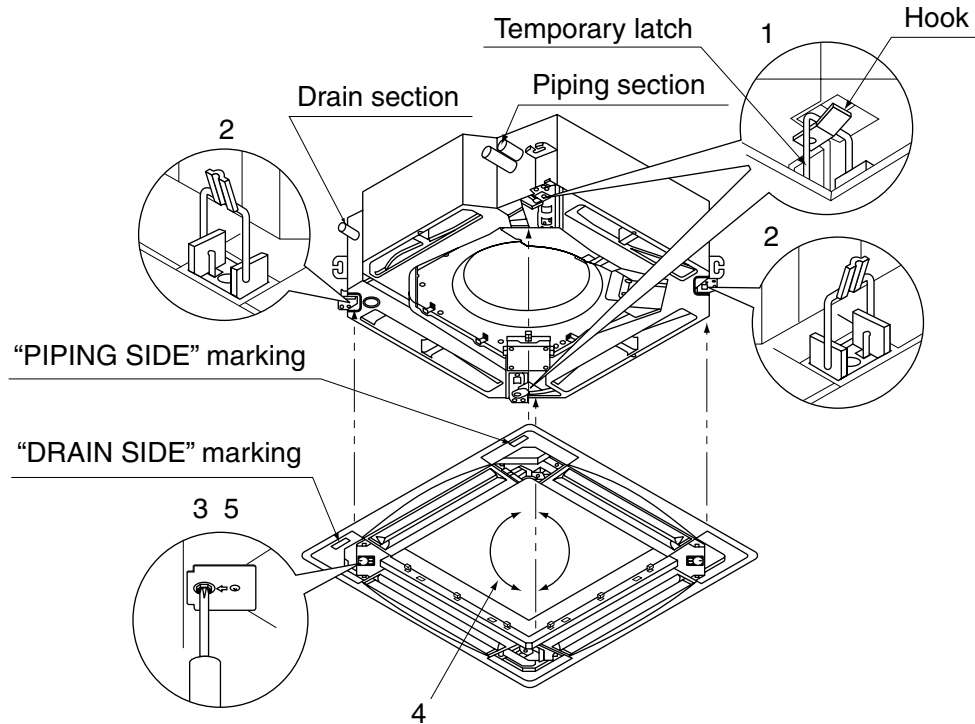
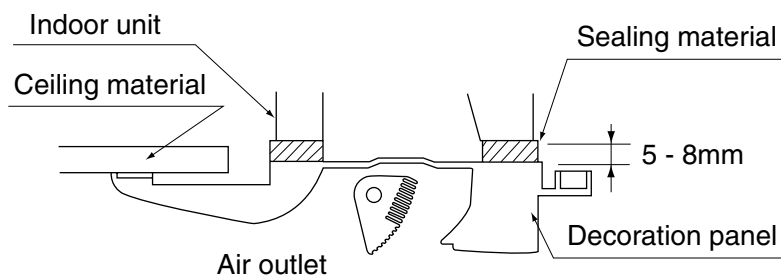


Fig. 5

- 5 Tighten the screws until the thickness of the sealing material between the decoration panel and the indoor unit body reduces to 5-8 mm.



C : 3PA64319-11M

[ PRECAUTIONS ]

- Improper screwing of the screws may cause the troubles shown in Fig. 6. Screw properly.

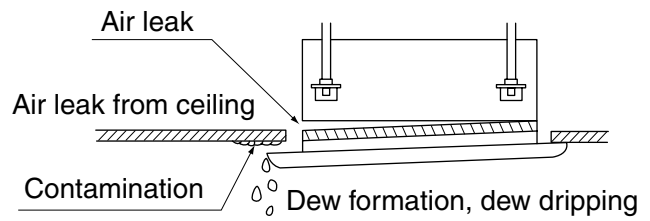


Fig. 6

- If gap is still left between the ceiling and the decoration panel after screwing the screws, readjust the indoor unit body height. (Refer to Fig. 7)

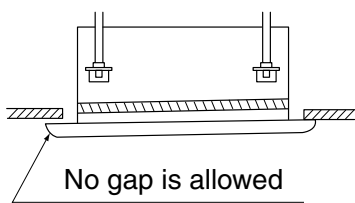
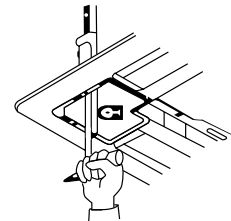


Fig. 7

Adjustment of the indoor unit body height from the holes in the corner of the decoration panel is possible if the indoor unit is kept leveled and the drain piping, etc. is unaffected.



(3) Wiring of the decoration panel (Refer to Fig. 8)

- 6 Remove the terminal box lid.
- 7 Connect the connectors for swing flap motor lead wire installed on the decoration panel.
- 8 Replace the terminal box lid reversing the procedure to remove it.

Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel.

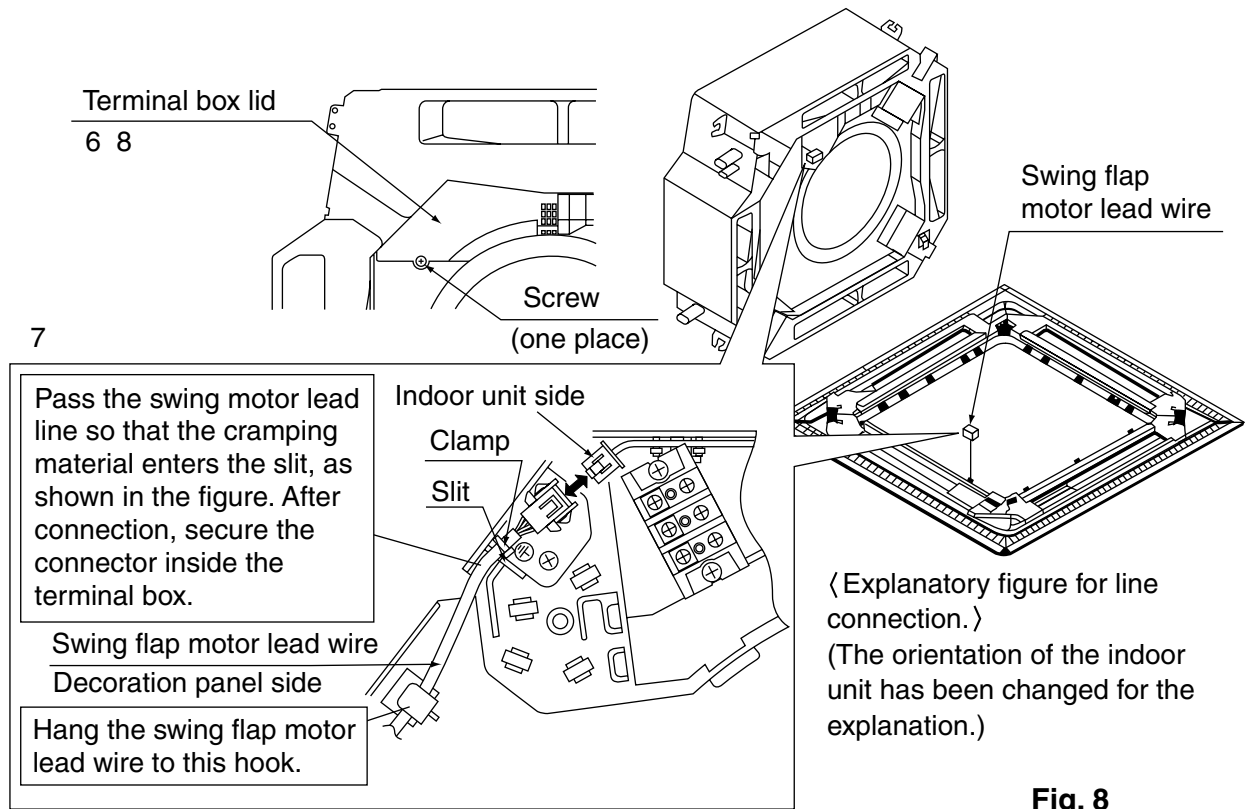


Fig. 8

C : 3PA64319-11M

## 4. INSTALLATION OF SUCTION GRILLE AND SERVICE COVER

### (1) Install the suction grille

Install by reversing the procedure shown in “PREPARATION OF DECORATION PANEL”.

It is possible to install the suction grille in 4 directions by turning the suction grille.

Change the direction when adjusting the direction of the suction grille of multiple units or in meeting customers' demands.

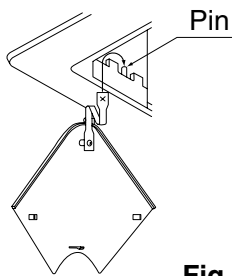
#### **NOTE**

Be careful not to get swing flap motor lead wire get caught when installing the suction grille.

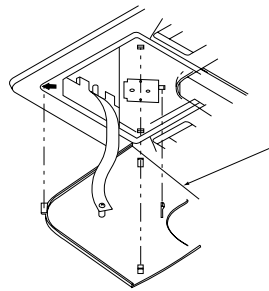
### (2) Install the service cover on the corner.

1 Attach the string of the service cover to the pin of the decoration panel. **(Refer to Fig. 9)**

2 Install the service cover over the decoration panel. **(Refer to Fig. 10)**



**Fig. 9**



Install the service cover by sliding 4 latches to fit into the holes on the decoration panel.

**Fig. 10**

C : 3PA64319-11M



### 1.3 KDBH55K160F — Sealing Member of Air Discharge Outlet

KDBH55K160 / KDBH55K160F



**Dimensions** Unit:mm

Sealing materials for long air outlets (Polyethylene foam t10): 2 pieces

Sealing materials for horizontal blades (Polyethylene foam t10): 8 pieces

Sealing materials for air outlets at the corner (Polyethylene foam t10): 1 piece for each

Tape for sealing materials for long air outlets (Non-woven fabric t0.6): 2

Tape for sealing materials for air outlets at the corner (Non-woven fabric t0.6): 3

Tape for sealing materials for air outlets at the corner (Non-woven fabric t0.6): 1

Side insulation plate (NB foam t10) : 2

Antisweat material (Flocking tape): See right

Applicable part number	Qty and color
KDBH55K160F	4, grey
KDBH55K160	4 for each, Dark grey or black

Antisweat material (Flocking tape): See right

Applicable part number	Qty and color
KDBH55K160F	4, grey
KDBH55K160	4 for each, Dark grey or black

J : D3K05112

Installation

Precautions										
<ul style="list-style-type: none"> <li>Use this manual with the installation manuals attached to the indoor unit's main body and decoration panel.</li> <li>When other separately-sold products are mounted, the 3-way blow and 2-way blow may not be selected. For details, refer to the Engineering Data or catalog.</li> </ul>										
Parts content										
Check the following parts.										
Name	Longitudinal air outlet sealing material	Corner air outlet sealing material A	Corner air outlet sealing material B1	Corner air outlet sealing material B2	Corner air outlet sealing material C	Corner air outlet sealing material D	Longitudinal air outlet tape for fixing the sealing material	Corner air outlet tape for fixing the sealing material	Corner air outlet tape for fixing the sealing material	
Number of pieces	2	1	1	1	1	1	2	3	1	
Shape/Symbol										
Name	Absorbent (Inside 1)		Absorbent (Inside 2)		Absorbent (Outside)	Absorbent (Bridge centre)	Absorbent (Bridge outside)			
Number of pieces	2		1		2	2	2			
Shape/Symbol										
	Use only classes 28 to 56 24mmx328mm		Use only classes 63 to 160 24mmx410mm		Use only classes 28 to 56 24mmx290mm	8mmx505mm	Use only classes 28 to 56 47mmx47mm			
Name	Side insulator plate		Horizontal blade absorbent				Horizontal blade sealant			
Number of pieces	2		With 4-blade KDBH55K160F		With 8-blade (2 colours) KDBH55K160		With 4-blade KDBH55K160F		With 8-blade (2 colours) KDBH55K160	
Shape/Symbol									8 pieces 10mmx95mm	
	100mmx1480mm		(With KDBH55K160, two colours are available: gray and black, matching the blade colours.)		(With KDBH55K160, two colours are available: gray and black, matching the blade colours.)					

The sticking procedure for absorbent differs with classes 28 to 56 and with classes 63 to 160. (Refer to 2 Sticking of absorbent to air outlet.)

1 Blow Direction Selection and Sealing Material Mounting

(1) Blow direction selection

- Depending on the installation location, select a blow direction from the table below. For the setting position number, refer to 4 Field Setting.
- For the selection of installation location, refer to the installation manual attached to the indoor unit's main body.

**Precautions** Blow direction patterns other than those shown in the figure below cannot be selected. (Condensation may occur.)

(2) Matching with the corner air outlets (A) to (D) that are to be blocked, stick the sealing material to the tape for fixing the sealing material. (Stick the sealing material so that the sealing material comes to the positions shown in the schematic diagram.)

(3) Stick the sealing material that was prepared in (2) to the air outlet of indoor unit main body.

**Precautions**

- The sealing material has a directional property. Be sure to stick the sealing material to the tape for fixing the sealing material so that the printed number of outlet to be blocked becomes visible.
- When blocking both the air outlet (1) and air outlet (D), start the sticking of sealing material with the air outlet (D).

(4) Matching the longitudinal air outlet numbered (1) to (4) that are to be blocked, prepare the sealing material and tape for fixing the sealing material.

- Cut both the sealing material and tape for fixing the sealing material along the perforation (dotted line).
- Stick the sealing material to the tape for fixing the sealing material. (Stick so that the sealing material comes to the centre of tape for fixing the sealing material.)

Example) When blocking air outlet (2) or (3)

(5) Stick the sealing material that was prepared in (4) to the air outlet of indoor unit main body.

**Precautions** The sealing material has a directional property. Be sure to stick the sealing material to the tape for fixing the sealing material so that the printed number of outlet to be blocked becomes visible.

2 Sticking of Absorbent to Air Outlet

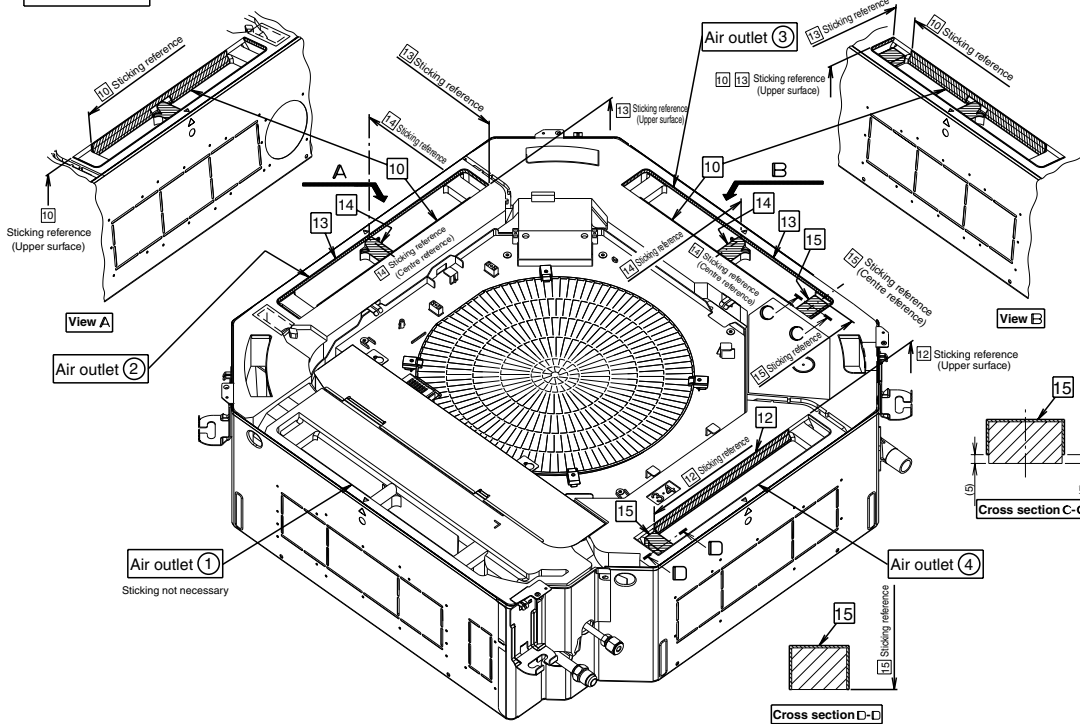
● Stick the absorbent indicated in the table below to the air outlet that was not blocked in ① according to the procedure shown in the figure below.

	Classes 28 to 56	Classes 63 to 160
Air outlet ①	—	—
Air outlet ②	Absorbent ⑩ ⑬ ⑭ Total 3 pieces	—
Air outlet ③	Absorbent ⑩ ⑬ ⑭ ⑮ Total 4 pieces	Absorbent ⑪ ⑬ ⑭ Total 3 pieces
Air outlet ④	Absorbent ⑫ ⑮ Total 2 pieces	—

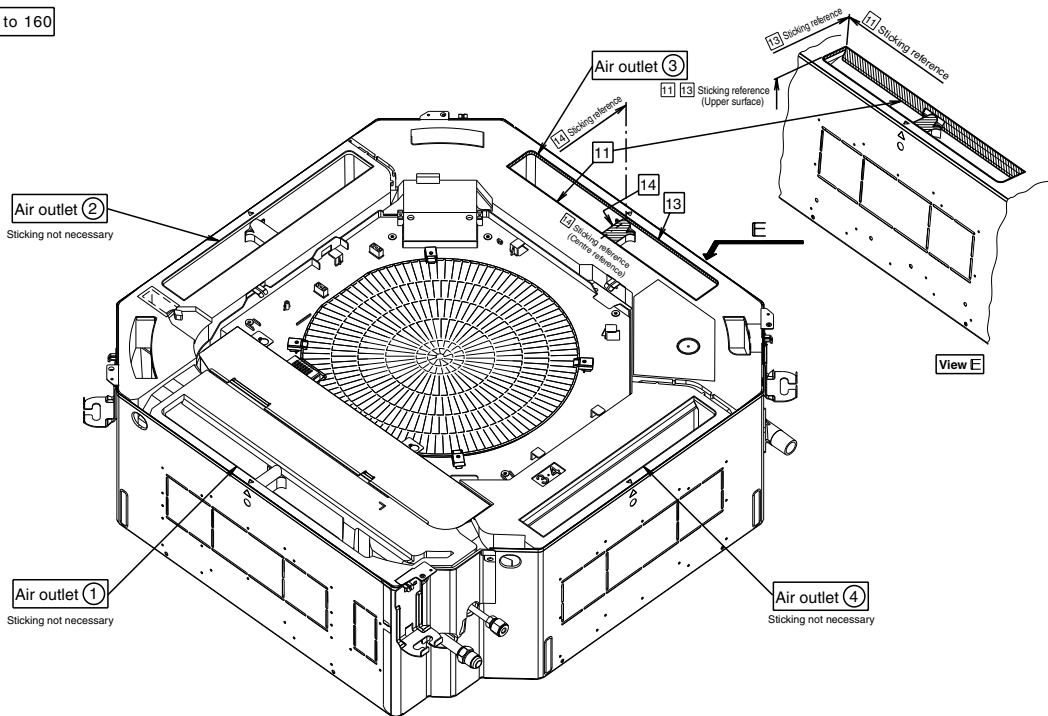
Precautions

- If the sticking of absorbent is omitted, condensation may occur.
- To positions where the absorbent is already stuck, the sticking of absorbent is not necessary.

Classes 28 to 56



Classes 63 to 160



continued on back side

### 3 Sticking of Insulator to Indoor Unit Main Body

- For safety, be sure to shut off power supply before starting the insulator sticking operation, decoration panel mounting operation, and connecting of connectors for swinging.
- Stick the side insulator plate **16** according to the figure below.

**Precautions** If the sticking of insulator is omitted, condensation may occur.

For a wiring takeoff point with two sections, make a slit on the side insulator plate **16** as shown in the figure below, then route the wiring.

### 4 Sticking of Absorbent to Panel Horizontal Blade

- Perform the operation on soft cloth to prevent damage to the panel.
- Perform sticking for the horizontal blades of all air outlets.
- Do not apply force to the horizontal blade. (Application of force may lead to horizontal blade swing failure.)

According to the figure below, stick the horizontal blade absorbent **17** and **18** as well as the horizontal blade sealing pad **19**.  
(With KDBH55K160, stick the horizontal blade absorbent with matching blade colour.)

**Precautions** When the sticking of absorbent and sealant is omitted, condensation may occur.

- Stick the horizontal blade absorbent **17** in line with the blade shape to the front face of the horizontal blade.
- Stick the horizontal blade sealing pad **19** to the backside of the blade. (For both left and right)
- Stick the horizontal blade absorbent **18** in between the horizontal blade sealing pad **19**.

### 5 Field Setting

- Depending on the installation status of the indoor unit's main body, the field setting needs to be performed by remote control operation.
- Perform the setting by switching among the following three items: "Mode number", "Setting switch number", and "Setting position number".
- The setting procedure and operation method are described in "How to perform field setting" attached to the remote control.

(1) Setting by number of air outlets used  
While referring to "How to perform field setting" attached to the remote control, perform the setting according to the table in the right.  
Also, when the corner air outlet is blocked with 4-way blow, set the wind direction slightly downward.  
(Note) When the installation height becomes higher than the standard, the setting by ceiling height in (2) becomes necessary.

(2) Setting by ceiling height  
For the ceiling height, refer to the guidelines of ceiling height and number of air outlets used, then perform the setting for each air outlet used according to the table below.

**(Guidelines of ceiling height and number of air outlets used)**

Indoor unit	Number of air outlets used							
	Types 28 to 90				Types 112 to 160			
Ceiling height	All-around blow	4-way blow	3-way blow	2-way blow	All-around blow	4-way blow	3-way blow	2-way blow
Standard	2.7m or less	3.1m or less	3.0m or less	3.5m or less	3.2m or less	3.4m or less	3.6m or less	4.2m or less
High ceiling (1)	3.0m or less	3.4m or less	3.3m or less	3.8m or less	3.6m or less	3.3m or less	4.0m or less	4.2m or less
High ceiling (2)	3.5m or less	4.0m or less	3.5m or less	—	4.2m or less	4.5m or less	4.2m or less	—

Values for ceiling height are provided as reference.

**(Setting content) (Setting by number of air outlets used)**

Number of air outlets used	Mode number	Setting switch number	Setting position number
3-way blow	13 (23)	1	02
2-way blow			03

**(Setting content) (Setting for when corner air outlet is blocked with 4-way blow)**

(Wind direction)	Mode number	Setting position number
Standard	13 (23)	02
Slightly downward		03

**(Setting content) (Setting by ceiling height)**

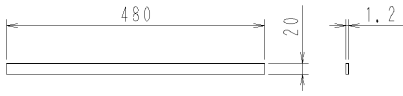
	Mode number	Setting position number
Standard		01
High ceiling (1)	13 (23)	02
High ceiling (2)		03

# 1.4 KDBH55D160W — Sealing Material of Air Discharge Outlet

**Dimensions**

Unit: mm

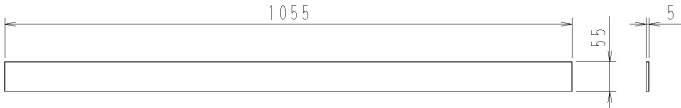
Absorbent material for horizontal blades: See right



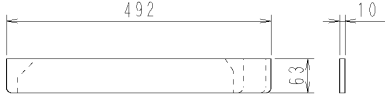
Applicable part No.	Q'ty and color
KDBH55D160W	3: white
KDBH55D160	4x3: 12 pcs Ivory, grey, beige, black

Accessory:  
Installation Manual

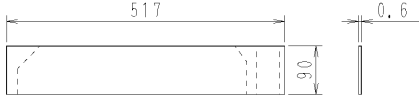
Absorbent material for bellmouse



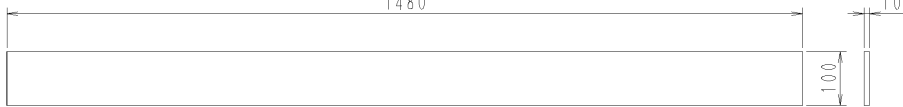
Sealing material: 2 pcs



Tape for sealing material: 2 pcs



Side insulation plate: 2



J: D3K03277

**3**  
1.4 KDBH55D160W

Installation

Caution

- Refer to the installation manual for both indoor unit and the decoration panel.
- When you install other optional kit, it may not be possible to select the 3-way or 2-way air discharge, (followed table)  
For details, refer to the manual for the optional kit or the catalogue.

Optional kit	4-way air discharge	3-way air discharge	2-way air discharge
Branch duct chamber	○	○	○
High efficiency filter chamber	○	× Not possible to install	× Not possible to install

Contents of Kit

Prior to installation make sure you have the complete of parts.

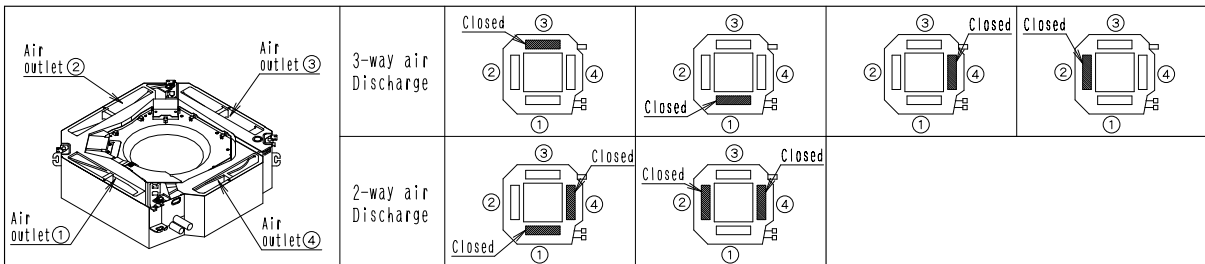
Name	Sealing Material	Tape for fixing the Sealing Material	Insulation for Side Plate	Moisture Absorber for Bell-Mouth	Moisture Absorber for Swing flap	Spacer	Spacer installation screw
Quantity	2 pieces	2 pieces	2 pieces	1 pieces	3 pieces	1 pieces	1 pieces
Shape - marking	①	②	③ 100mm×1480mm	④ 55mm×1055mm	⑤	⑥	⑦ (M3x10)

① The direction of air discharge and the positioning of sealing material

(1) Selection of the air outlet

- Select the direction of air discharge from the following table according to the location of the indoor unit.  
Refer to ② Setting of indoor unit Setting of indoor unit for setting position number.  
Refer to the installation manual attached to the indoor unit for selection of installation location.

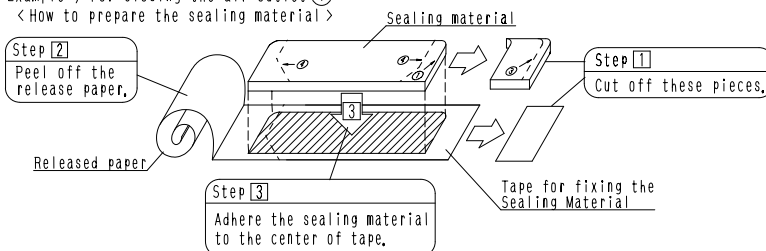
**Caution** Never select the direction of air discharge other than the following pattern.  
(You may have a condensation problem.)



(2) Prepare the sealing material and the tape for fixing the sealing material according to the air outlet No. to be closed.

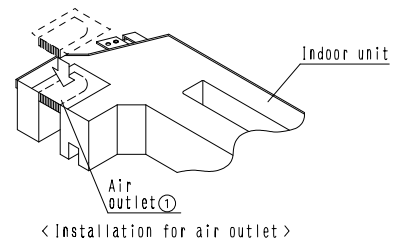
- Cut off the sealing material and the tape along the perforated lines (marked ----).
- Adhere the sealing material to tape. (Make sure that the sealing material is placed at the center of the tape.)

Example ) For closing the air outlet ①  
<How to prepare the sealing material>



\*When closing the air outlet ②, it is not required to work on the sealing material.

(3) Adhere the sealing material prepared according to the procedure (2) to the indoor unit air outlet.



Caution

The sealing material has directional characteristics.  
Make sure to adhere the sealing material fixing tape in the direction which the parts from ① to ④ can be seen as shown above.

**2 Setting for indoor unit**

It is required to make a field setting from the remote controller according to how the indoor units are installed. The direction of air discharge must also be set by the remote controller.

- The 3 different kinds of setting such as "Mode number", "The setting switch number" and "The setting position number" must be made by the remote controller.
- Refer to the item of "Field setting" in the operation manual of the remote controller for the setting procedure.

(1) Setting according to number of use of the air discharge.  
Check the setting position number corresponding to the direction of air discharge in a right table.

(Content of setting)

(Number of use of air outlets)	Mode number	The setting switch number	The setting position number
3-way air discharge	13(23)	1	02
2-way air discharge			03

Note) Refer to the table for height of the ceiling for each direction of air outlet. (The setting of the ceiling height is also required.)

(2) Setting according to height of ceiling.

As for the ceiling height, see the left table below which shows the standard of ceiling height and number of air outlets to be used. Then, taking this standard into account, make a field setting of ceiling height from the remote controller according to the right table below.

(Standards of ceiling height and number of air outlets)

Indoor unit (FHVCP, FXF)	Number of use of air outlets					
	25~80 type			100~140 type		
	4-way air discharge	3-way air discharge	2-way air discharge	4-way air discharge	3-way air discharge	2-way air discharge
Ceiling height (m)						
Standard	~2.7	~3.0	~3.5	~3.2	~3.6	~4.2
Semi-high	2.7~3.0	3.0~3.3	3.5~3.8	3.2~3.6	3.6~4.0	~4.2
High	3.0~3.5	3.3~3.5	—	3.6~4.2	4.0~4.2	—

(Content of setting)

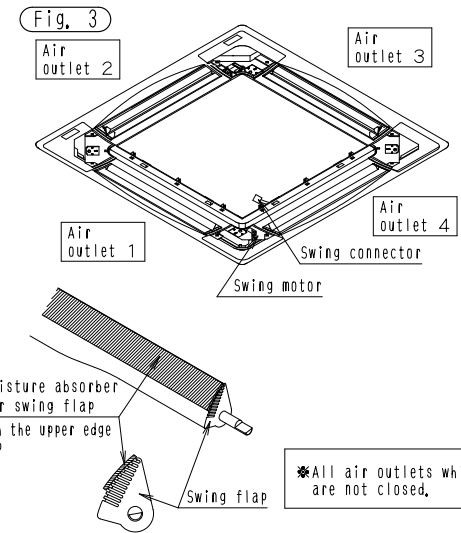
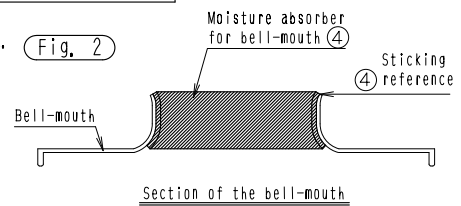
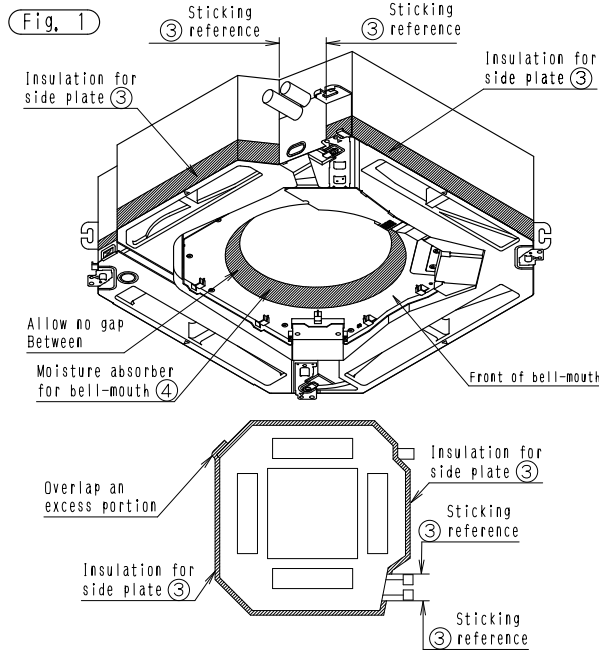
Ceiling height (m)	Mode number	The setting switch number	The setting position number
Standard	13(23)	1	01
Semi-high			02
High			03

(Ceiling height is reference value)

**3 Installation of the insulation**

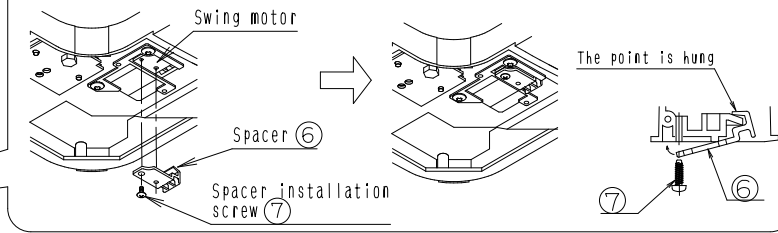
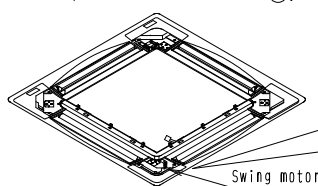
Please turn off the power supply for safety absolutely, before you do installation of the decoration panel and affixation of insulation and connected work of swing connector.

- (1) Adhere the insulations for side plate ③ in position, referring (Fig.1).
- (2) Adhere the moisture absorber for bell-mouth ④ on the inner surface of the bell-mouth. See (Fig.1) (Fig.2).
- (3) Adhere the moisture absorber for swing flap aligning with the upper edge of the swing flap on the air outlet. See (Fig.3).



**4 Installation of the spacer**

Please install spacer ⑥ on the swing motor with the spacer installation screw ⑦.



1P088448A

### 1.5 KDBP55H160FA·160WA — Panel Spacer

KDBP55H160FA



Model		KDBP55H160FA	KDBP55H160WA
Item			
Exterior		Fresh White (6.5Y9.5/0.5)	White (10Y9/0.5)
Material		Outside frame: Resin Insulation: Polyethylene foam	
Accessories		Fixture : 4 pieces Screws : 1 set Sealing material : 1 set Installation manual.	
Mass (Weight)	kg	1.2	

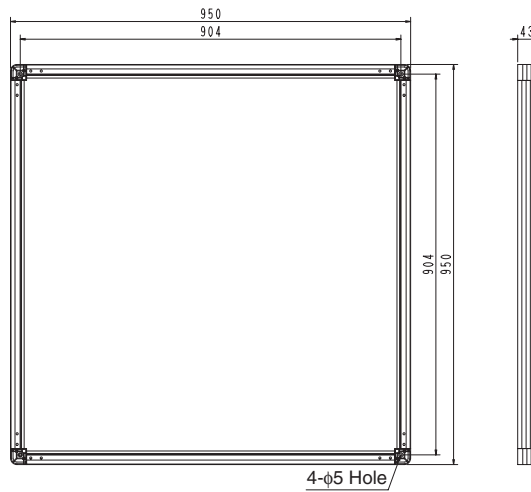
- Using the panel spacer in areas of the ceiling with limited space makes it possible to install the air conditioner.
- Hides the gap between the decoration panel and the ceiling.

**Caution**

- When the panel spacer is installed, it is not possible to have 2-way air outlet.
- Refer to the installation manual for both indoor unit and the panel spacer for its installation.

**Dimensions**

Unit:mm



J : D3K04626



Installation

Combination table

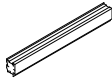
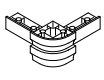





Panel spacer	KDBP55H160FA	KDBP55H160WA KDB55K160WA
Decoration panel	BYCP125K-W1	BYCP125D-W1 BYC125K-W1 BYC125KJW1 BYC125K-W1S

Caution

- When the Panel Spacer is installed, it is not possible to have 2-way air outlet.
- Refer to the installation manual for both indoor unit and the Panel spacer for its installation.

Contents of kit

Check if following parts are included with your kit,

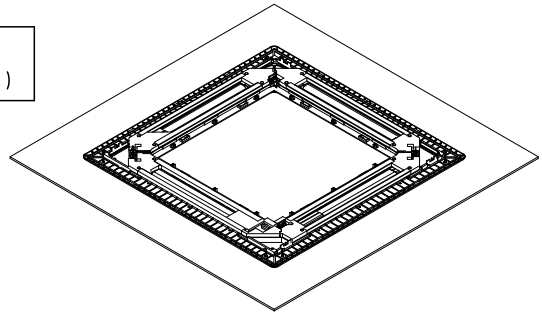
Name	Panel spacer frame	Resin corner part	Fixing metal	Screw
Quantity	4 PCS,	4 PCS,	4 PCS,	28 PCS,
Shape・number	① 	② 	③ 	④  M4×10 Tapping screw (Class 2)
Name	Sealing material	Caution label	Others	
Quantity	2 PCS,	2 PCS,	1 PC,	
Shape・number	⑤ 	⑥ 	⑦  • This Installation Manual	

1 Preparation of the Decoration panel

- Handle the decoration panel with care.

Never place the panel face down, or lean the panel against wall or place on the projective object,  
(It causes the dent or damage of the surface of the panel or damage of swing motor.)

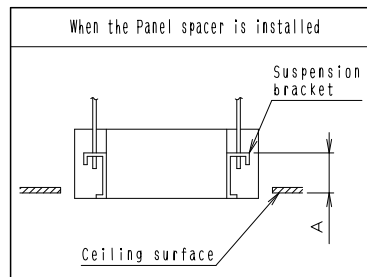
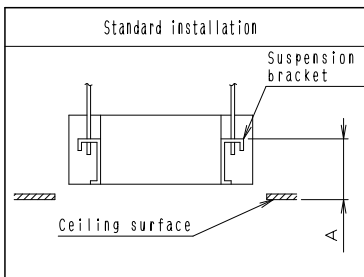
- (1) Remove the suction grill from the decoration panel,  
(Refer to the installation manual of the decoration panel how to remove.)
- (2) Place the panel face down on the corrugated board or the vinyl sheet  
to protect the surface of the panel.



2 Installation of the indoor unit

Adjust the height of the indoor unit.

Be sure the piping will not contact with the ceiling joist etc, after adjusting the height.

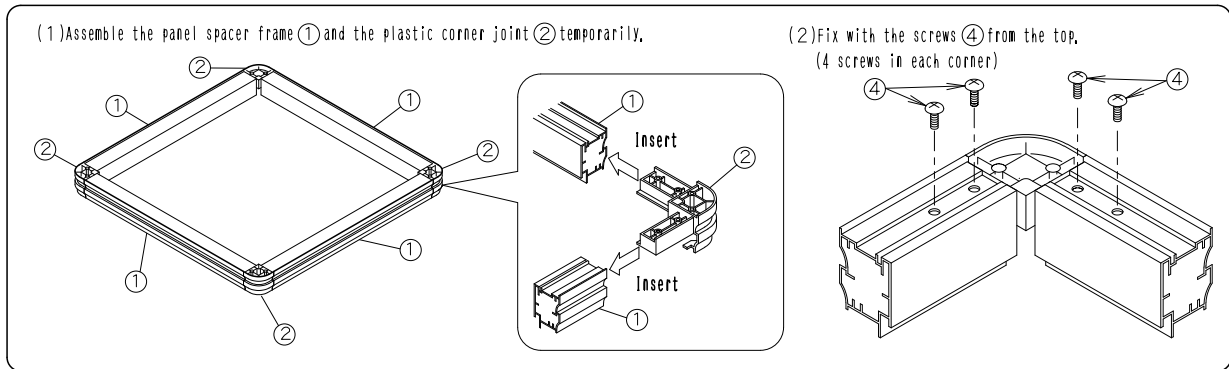


Decoration panel	A(mm)
BYCP125D-W1 BYC125K-W1 BYC125KJW1 BYC125K-W1S	145~150
BYCP125K-W1	125~130

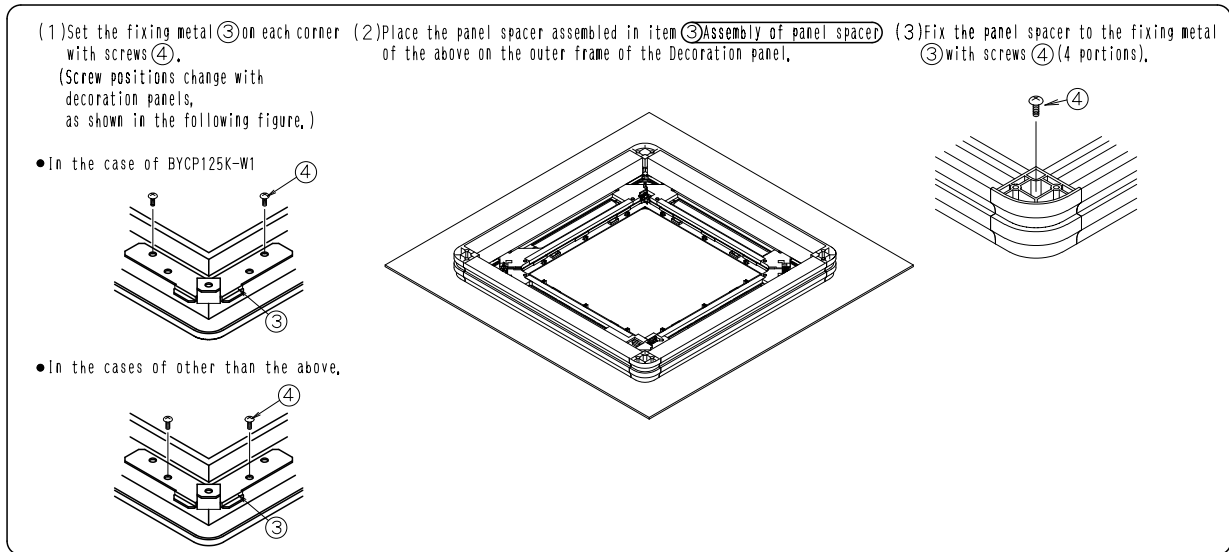
Decoration panel	A(mm)
BYCP125D-W1 BYC125K-W1 BYC125KJW1 BYC125K-W1S	105~110
BYCP125K-W1	85~90

C : 1P136564E

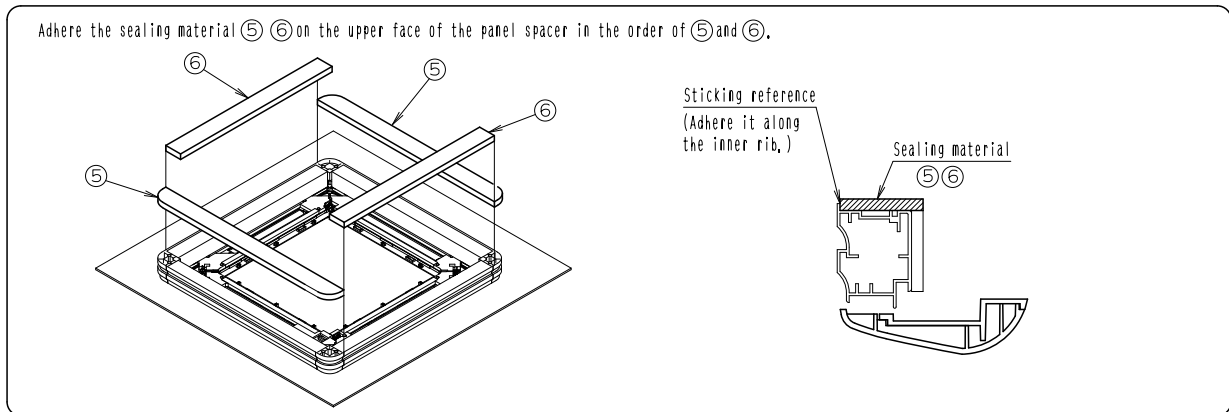
**3 Assembly of panel spacer**



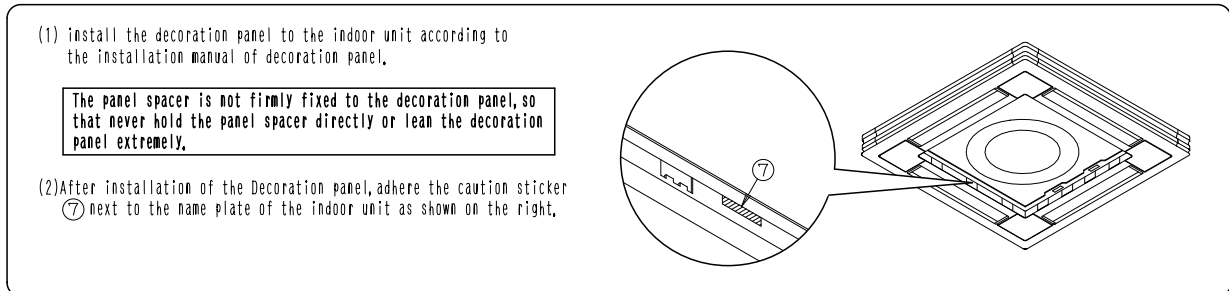
**4 Fixing to the Decoration panel**



**5 Adhesion of the sealing material**



**6 Installation of the Decoration panel**



# 1.6 KDDP55B160(K) — Fresh Air Intake Kit (Chamber Type)

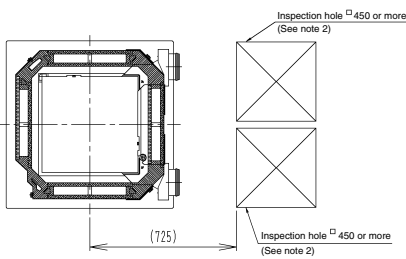
KDDP55K160 (without T-shape, without Fan)



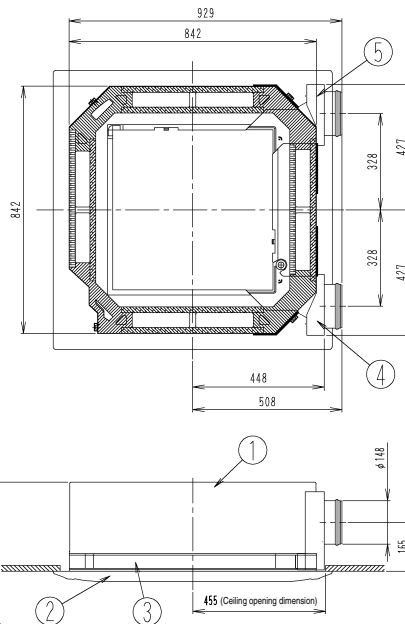
Model		KDDP55B160
Item		
Fresh air intake method		Fresh air intake by air conditioning fan
Diameter of connection duct		φ150
Mass (Weight)	kg	4.5

## Dimensions

Unit:mm



How to establish an inspection hole

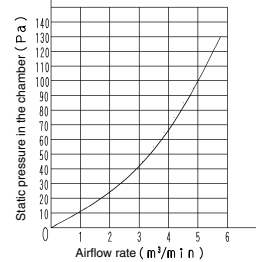


Number	Name	Description
1	Indoor unit main body	
2	Decoration panel	
3	Suction chamber	
4	Connecting port chamber (right)	
5	Connecting port chamber (left)	

Accessories

- Screws (M5x12) : 4 pieces
- Sealing materials for air outlets at the corner
- Tape for fixing sealing materials for air outlets at the corner
- Installation manual

Resistance in the passage inside the chamber



Note)

- Maximum length of the duct is 4 meters.
- When installing this kit, an inspection hole is required (in order to maintain this kit). Establish an inspection holes on either side.
- This kit is field assembly.
- Install the hanging fixing for the T joint. Otherwise the load from T-shape pipe assembly, etc., could create a gap between the indoor unit and suction chamber.
- When mounting the duct fan, be sure to use the wiring modification adaptor to interlock with the indoor unit fan.
- With the intake air volume, 10% or less of the "H" wind volume of the indoor unit is recommended. Excessive intake air volume may increase the operation sound level or affect the performance of the suction air temperature detection in the indoor unit.

	Indoor unit	△(mm)
BYCP125K-W1	FCQ71KVEA	306
	FCQ100-140KVE	348
	FXFQ25-80PVE	
	FXFQ100-125PVE	

Mountable Indoor unit models	
SkyAir	FCQ71-140KVEA
VRV	FXFQ25-125PVE

JC : D3K07959

KDDP55B160K (with T-shape, without Fan)

Item	Model	KDDP55B160K
Fresh air intake method		Fresh air intake by air conditioning fan
Diameter of connection duct		φ150
Mass (Weight)	kg	6.5

Dimensions

Unit:mm

**How to establish an inspection hole**

Inspection hole φ450 or more (See note 2)

Inspection hole φ450 or more (See note 2)

929

842

5 Flexible duct (Accessory)

427

328

427

448

508

4 Plate band (Accessory)

1

Hanging fitting (Field supplied) (See note 4)

115

455 (Ceiling opening dimension)

418

725

Accessories

- Screws (M5x12) : 4 pieces
- Sealing materials for air outlets at the corner
- Tape for fixing sealing materials for air outlets at the corner

Installation manual

Resistance in the passage inside the chamber (Note 7)

Number	Name	Description
1	Indoor unit main body	
2	Decoration panel	
3	Suction chamber	
4	Connecting port chamber (right)	
5	Connecting port chamber (left)	

Static pressure in the chamber (Pa)

Airflow rate (m<sup>3</sup>/m<sup>2</sup>h)

Indoor unit	Δ (mm)
FCQ71KVEA FXFQ25-80PVE	306
FCQ100-140KVE FXFQ100-125PVE	348

Mountable Indoor unit models	
SkyAir	FCQ71-140KVEA
VRV	FXFQ25-125PVE

Note

- Maximum length of the duct is 4 meters.
- When installing this kit, an inspection hole is required (in order to maintain this kit). Establish an inspection holes on either side.
- This kit is field assembly.
- Install the hanging fixing for the T joint. Otherwise the load from T-shape pipe assembly, etc., could create a gap between the indoor unit and suction chamber.
- When mounting the duct fan, be sure to use the wiring modification adaptor to interlock with the indoor unit fan.
- With the intake wind volume, 10% or less of the "H" wind volume of the indoor unit is recommended.
- This graph shows values from the inlet of the T joint through that of the indoor unit when KDDP55B160K (with a T joint) is connected.

JC : D3K07961

Installation

3  
1.6 KDDP55B160(K)

**⚠ Caution** After thoroughly reading these "Safety precautions", properly perform the installation.

- For the installation parts, accessory parts and specified components must always be used. If the specified components are not used, the kit may fall or an air leak may occur.
- After the completion of installation, perform a test run to check that no abnormality is present.

**Recommendations**

- This product can be mounted to a ceiling mounted cassette-type air conditioner <Round flow>.
- According to the table to the left, check the model name of the indoor unit, then mount the kit.
- At the time of mounting, also refer to the installation manual for the indoor unit and to the one for the decoration panel.
- When mounting the duct fan, be sure to use the wiring modification adaptor [KRP1C63] to interlock with the indoor unit fan.
- For the intake wind volume, 10% or less of the indoor unit wind volume of "H" is recommended.
- When the intake wind volume becomes excessive, operation noise may become louder or the intake temperature detection of the indoor unit may be affected.
- Be sure to mount the supplied sensor assembly.
- <For the duct used for field connection, those in the table below are recommended.>

Combination table	
Model name	Installable indoor unit / Panel model name
KDDP55B160 (K)	SkyAir FCQ71-140KVEA
	VRV FXFQ25-125PVE
	Panel BYCP125K-W1

Parts content																											
Check the following parts. (Shaded part  is included in a different package.)																											
Name	<div style="display: flex; justify-content: space-around;"> <span>① Suction chamber</span> <span>② Connecting chamber (left)</span> <span>③ Connecting chamber (right)</span> <span>④ Corner air outlet sealing material</span> <span>⑤ Corner air outlet tape for fixing the sealing material</span> <span>⑥ Mounting screw</span> <span>⑦ Sensor assembly</span> <span>⑧ Clamp</span> <span>⑨ Mounting screw (for sensor)</span> <span>⑩ T joint</span> <span>⑪ Flexible duct</span> <span>⑫ Sealing pad</span> <span>⑬ Insulation material</span> </div>																										
Shape																											
Number of pieces	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>KDDP55B160</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>4</td> <td>1</td> <td>2</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>KDDP55B160K</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>4</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>2</td> <td>4</td> </tr> </table>	KDDP55B160	1	1	1	2	2	4	1	2	1	—	—	1	KDDP55B160K	1	1	1	2	2	4	1	2	1	1	2	4
KDDP55B160	1	1	1	2	2	4	1	2	1	—	—	1															
KDDP55B160K	1	1	1	2	2	4	1	2	1	1	2	4															

Part name	Part number	Name	④ Partition plate
Flexible duct (Nominal diameter φ150)	K-FDS151D (1m)	Shape	
	K-FDS152D (2m)		
	K-FDS153D (3m)		
	K-FDS154D (4m)		

①, ⑦ and ⑨ are only used in combination with round flow type.

**1 Selection of Installation Location and Establishment of Inspection Opening**

(1) Refer to the figure below to select the installation location.

	Indoor unit	△ (mm)
BYCP125K-W1	FCQ71KVEA	306
	FXFQ25-80PVE	306
	FCQ100-140KVE	348
	FXFQ100-125PVE	348

\*1. Install the suspension bracket for the T joint section. Because of the load from T joint, etc., a gap may be created in between the indoor unit and suction chamber.

\*2. Establish an inspection opening (φ450 or more). Establish an inspection opening to either side.

(2) Establish an inspection opening.

**2 Mounting of Sensor Assemblies and Suction Chamber**

\* When the indoor unit main body is already installed, perform the following operations, complying with precautions below.

- Shut off power supply before performing operation.
- Remove the decoration panel from the indoor unit main body. (For details, refer to the installation manual attached to the decoration panel.)

**Round flow**

**<Mounting of sensor assembly>**

- According to the installation manual attached to the indoor unit main body, remove the cover of the control box.
- Using the supplied screws, tighten the sensor assembly together with the bell mouth to the indoor unit main body. (Mount without pinching the float switch lead wire.)
- Remove the connector (X16A) of the existing sensor from the PC board of the indoor unit main body.
- Connect the lead wire of the mounted sensor assembly to the connector (X16A) on the PC board of the indoor unit main body as shown in the figure below.
- As shown in the figure below, fix the lead wire using the supplied clamp.
- After all the wiring is completed, fit the control box cover according to the installation manual attached to the main body.
- Making sure that the control box cover is covered with the partition plate (14), tighten these together using the screws on the cover. (Hook the partition plate tab onto the cover.)

**<Mounting of suction chamber>**

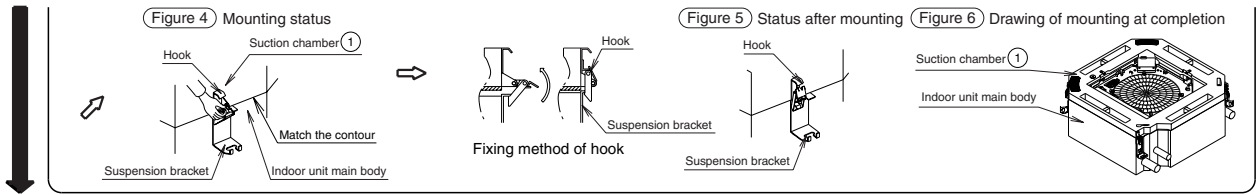
\* Figure shows an example where the indoor unit main body is newly installed.

- Stick the corner air outlet tape for fixing the sealing material (5) to the corner air outlet sealing material (4), then stick it to the air outlet of the indoor unit main body. (2 positions) (Figure 1) (Figure 2)
- Mount the suction chamber (1) to the indoor unit main body using the hook (4 positions). (Figure 3) to (Figure 5)

For the fixing method of the hook, refer to (Figure 4), then mount at 4 positions.

\* Mount so that the contours of the indoor unit main body and suction chamber match. (Figure 4) (Figure 6)

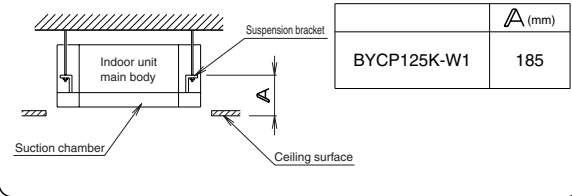
JC : 3K022728



**3 Installation of Indoor Unit Main Body and Suction Chamber**

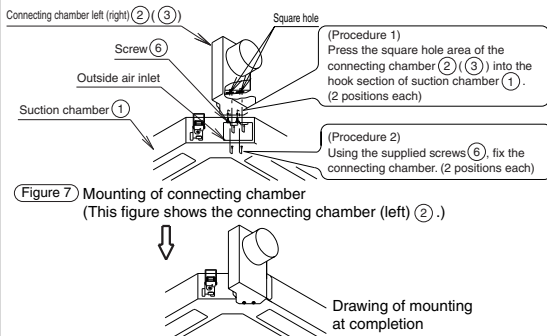
JC: 3K022728

- Install the indoor unit main body and suction chamber. At the time of installation, perform the engineering work according to the installation manual attached to the indoor unit main body. (For the installation height, refer to the figure to the right.)
- When mounting the suction chamber to the existing indoor unit main body, change the installation height of the indoor unit main body to height **A** in the figure to the right.



**4 Mounting of Connecting Chamber and Connection of Flexible Duct**

Mount the connecting chamber. (1 piece each for left and right, a total of 2 pieces) (Figure 7)  
 (1) Press the square hole area of the connecting chamber (2) (3) into the hook section (tab) of the suction chamber (1). (2 positions)  
 (2) Using the supplied screws (6), fix the connecting chamber. (2 positions)

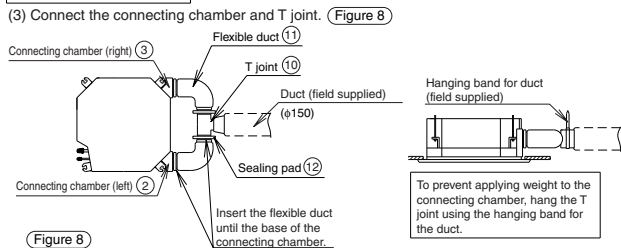


**<How to Tight Sealing Pad>**

- (1) Wrap the sealing pad to the position to be tightened.
- (2) Insert the tip of the band through the gap of the split pin, then lightly tighten by hand.
- (3) Using a standard tool (driver, pliers, etc.), turn the split pin to the direction shown in the figure to tighten the band.
- (4) This completes the mounting.

**Precautions**  
 Because the split pin has a structure to prevent counter rotation, be careful with the turning direction. (When a counter rotation is forced, the ratchet will be damaged, and the tightening force will be weakened.)

In case of KDDP55B160K



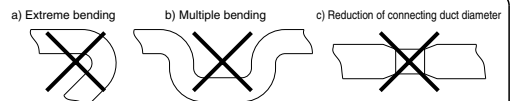
- (4) Mount the supplied installation pattern paper to the indoor unit by using screws to cure the indoor unit. (Refer to the installation manual of the indoor unit main body.) (Refer to the figure below.) (Mounting of installation pattern paper)
- 
- Complete all the refrigerant and drain piping works for the indoor unit main body.

**5 Duct Connection** <<Duct: Nominal diameter φ150>>

- (1) Connect the duct to the duct connection area.
- (2) Wrap the connection area with vinyl tape, etc., (arrangement at site) to prevent an air leak.

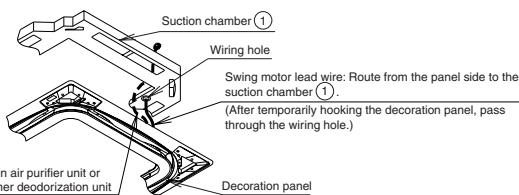
**Precautions**

- For the duct, be sure to apply the insulation treatment to prevent condensation.
- Do not perform duct manipulations described in the figure to the right.
- Beware that, in accordance with the local law, there may be cases where the use of a nonflammable duct is compulsory.
- When a duct goes through fire protection areas including a fire proof structure, beware that, in accordance with the local law, it may be required to establish a damper or to build a structure that is not detrimental to fire protection.
- When penetrating a wooden construction wall with a metal duct, apply electrical insulation to the duct and wall.
- Mount the outside duct so that it has a downslope toward the outside, and prevent rainwater from leaking in with a hood, etc. (Gradient of 1/100 to 1/50)
- To prevent the intrusion of small animals, such as birds, and bugs, be sure to attach a netting to sections open to outside air.
- To protect the heat exchanger of the indoor unit, be sure to attach an air filter to sections open to outside air.



**6 Mounting of Decoration Panel and Suction Chamber**

- After temporarily hooking the decoration panel, pass the swing motor lead wire, which is coming out from the decoration panel, through the wiring hole of the suction chamber. <Round flow> 1 swing motor lead wire
- However, when used in combination with the air purifier unit or streamer deodorization unit, perform wiring without routing through the wiring hole.
- Mount the decoration panel according to the installation manual attached to the decoration panel. (When you remove the el. compo. box lid, remove the partition plate (14) as well.)



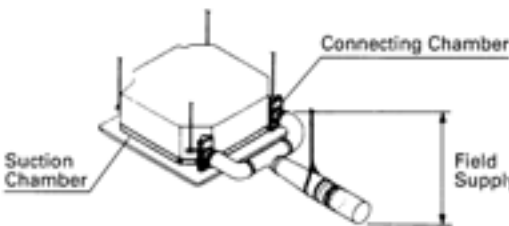
- After wiring leads, put the partition plate (14) and the el. compo. box lid in position. Be careful not to pull in the lead wire when putting them in position. Install the sensor assembly in the same way as described in 2 Mounting of Sensor...Chamber <Mounting of sensor assembly> (7).
- 

**With wireless unit**

- For details on connection method, refer to the installation manual attached to the wireless remote control kit (sold separately).

JC : 3K022964

**KDDP55B160 (without T joint, without fan)**



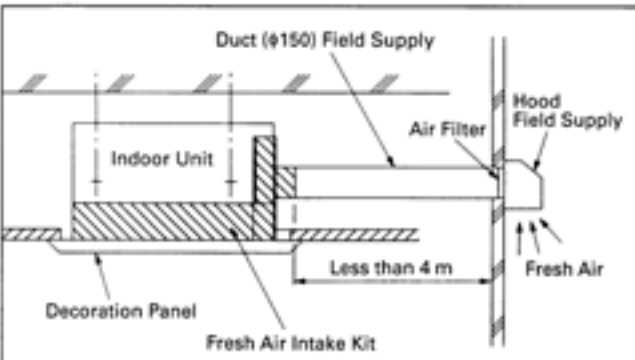
**Note:**

1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. In wireless remote controller use, Flexible Duct in the right can not connect.

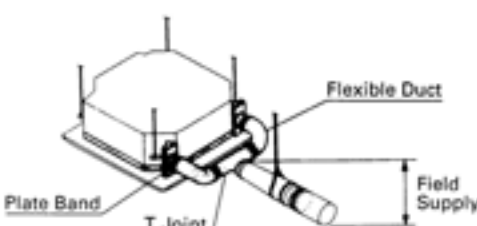
**• Specifications**

Kit Name	KDDP55B160
Item	KDDP55B160
Method of Fresh Air Intake	Fresh Air Intake by The Indoor Unit Fan
Size of Connecting Duct	φ150
Applicable Models	FCQ71-140KVEA FXFQ25-125PVE

**• Example of Installation**



**KDDP55B160K (with T joint, without fan)**



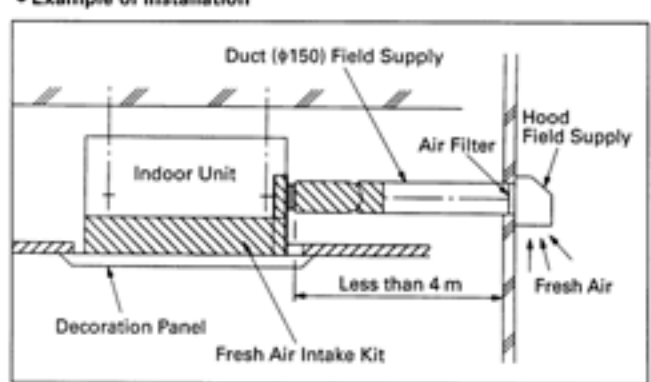
**Note:**

1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. It isn't possible to do simultaneous use with wireless remote controller.

**• Specifications**

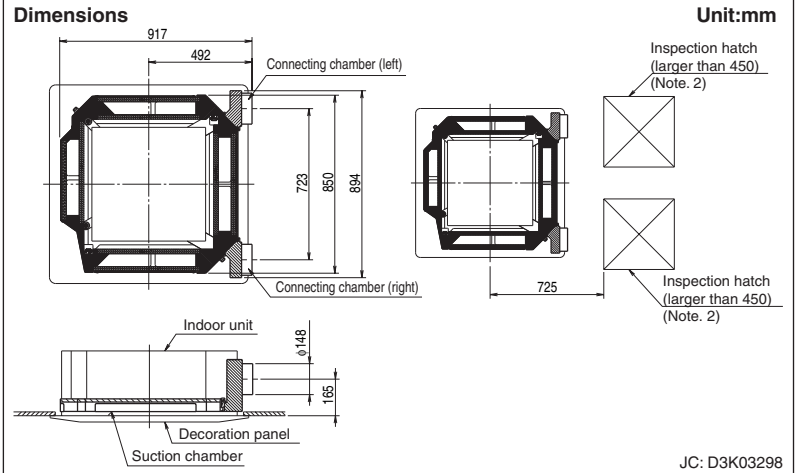
Kit Name	KDDP55B160K
Item	KDDP55B160K
Method of Fresh Air Intake	Fresh Air Intake by The Indoor Unit Fan
Size of Connecting Duct	φ150
Applicable Models	FCQ71-140KVEA FXFQ25-125PVE

**• Example of Installation**



## 1.7 KDD55DA160(K) — Fresh Air Intake Kit (Chamber Type)

### KDD55DA160 (without T-shape, without Fan)

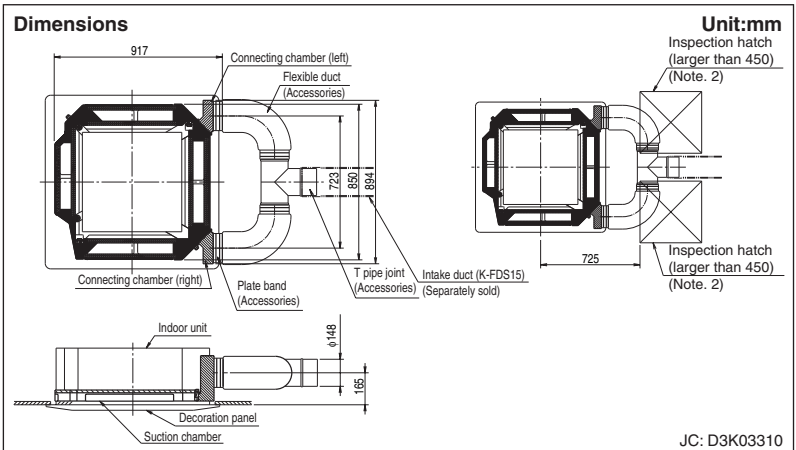


**Caution**

1. An inspection hatch is required when inserting this kit (Required for maintenance of the kit.)
2. Mount one or the other of the inspection hatch.
3. This should be assembled locally.
4. If there is any obstacle to make air intake from both sides hard, air intake from one side will be enabled.
5. If the light receiver unit for the remote controller is mounted to the main unit, air should be taken in from the right side.

Item	Model	KDDP55DA160
Fresh air intake method		Fresh air intake by air conditioning fan.
Diameter of connection duct		φ150
Accessories		T pipe joint: 1. Flexible duct: 2. Plate bands: 4. Mounting screws (M4×12) : 4. Installation manual.
Mass (Weight)	kg	4.5

### KDD55DA160K (with T-shape, without Fan)



**Caution**

1. Maximum length of the duct is 4 m.
2. An inspection hatch is required when inserting this kit. (Required for maintenance of the kit.)
3. Mount one or the other of the inspection hatch.
4. This should be assembled locally.
5. This kit is designed for intake from both sides. If one side is blocked requiring intake from only one side, use KDD55DA160.
6. This kit cannot be used when the receiver for the wireless remote control is attached as it blocks intake from one side.

Item	Model	KDDP55DA160K
Fresh air intake method		Fresh air intake by air conditioning fan.
Diameter of connection duct		φ150
Accessories		T pipe joint: 1. Flexible duct: 2. Plate bands: 4. Mounting screws (M4×12) : 4. Installation manual.
Mass (Weight)	kg	6.5



Installation

**⚠ Caution** Before starting the installation work, carefully read the following safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or specified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnormality during the trial operation.

**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner (Multi-flow type).
- Before installation, make sure the indoor unit number.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Combination table**

Kit name	Indoor unit model that party crowded is possible	
KDDP55D160 KDD55DA160	SPLIT	FHYCP50·60·71·100·125DVE FHYCP71·100·125·140DVL
	VRV	FXF25·32·40·50·63·80·100·125LVE FXF25·32·40·50·63·80·100·125LVEC FXFQ25·32·40·50·63·80·100·125MVE

**Components** Check if the following parts are included with your kit. Shaded part  is separately packed.

Name	① Suction Chamber	② Connecting Chamber (Right)	③ Connecting Chamber (Left)	④ Screw	⑤ Closing Material	⑥ T Joint	⑦ Flexible Duct	⑧ Clamp	⑨ Installation Manual
Shape									
Qty	KDDP55D160 KDD55DA160	1 PC.	1 PC.	4 PCS.	1 PC.	—	—	—	1 PC.
	KDDP55D160K KDD55DA160K	1 PC.	1 PC.	4 PCS.	—	1 PC.	2 PCS.	4 PCS.	1 PC.

1 Selection of Location and Access Door

1. Refer to the following table.

**In case of KDDP55D160**

- When the intake from both sides can not be obtained due to an obstacle, one side intake is acceptable. In this case, make sure to close the opening with the closing material ⑤.
- In case of one side intake, the noise will be larger than intake from both sides. (Example of one side intake)

2. Inspection hatch (larger than 450 □)

Indoor unit	A
25~80	306
100~140	348

\* Install either one of hatches

\* When installing the wireless receiver kit on the indoor unit, the duct must be led from right side as shown. In this case, use KDDP55D160 or KDD55DA160.

2 Installation of the Suction chamber

1. Remove the decoration panel. (This is not required for the new installation)

- Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)

2. Temporarily install the suction chamber to the indoor unit by hanging the latch on the opposite side of the suction chamber to the hook of the indoor unit body. (2 portions)

Temporarily hang the remaining 2 hooks of the suction chamber to the hooks on the sides of the indoor unit. (fig.1 ~ fig.3)

(When the indoor unit is already installed, hang the hook to the suspension bracket temporarily and fix the hook.)

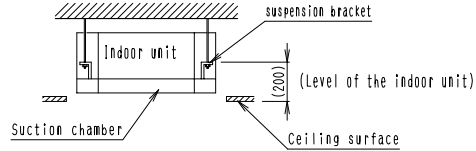
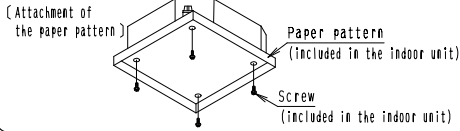
\* Installation set outline of the indoor unit (fig.2)

3. Tighten 2 hexahead screws located beneath the latches until the thickness of the sealing material of chamber reduces to 5~8mm. (fig.4 fig.5)

3K01144A

### 3 Installation of the Indoor Unit and the Suction Chamber

- Install the indoor unit and the suction chamber. Refer to the installation manual of the indoor unit. (For the height of the unit, refer to the drawing on the right.)
- Be complete installed refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. [See below] (When the indoor unit is newly installed) (See below)
- In case of attaching the chamber after installed indoor unit, For the height of the unit, change the height shown on the right drawing.



### 4 Installation of Connecting duct

1, Install the Connecting chamber(right & left) in accordance with the procedure shown in fig.5.

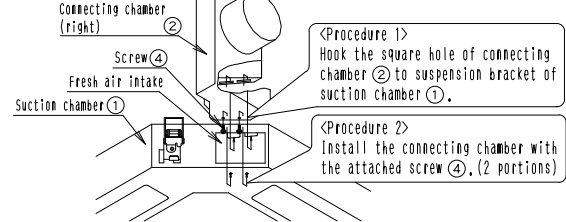
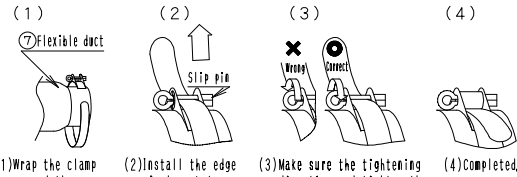


Fig.5 Installation of the connecting chamber(right) (Same as the left side)

<How to tighten the clamp>



**Caution**  
Do not turn the slit pin reversely. If turned reversely, ratchet part many break down.

In case of KDDP55D160K

2, Connect the T Joint and Connecting chamber, fig.6

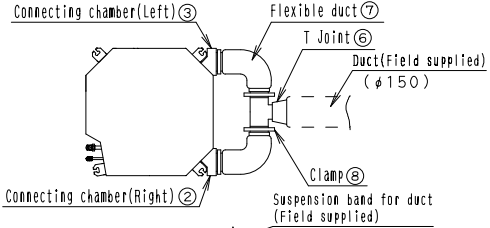
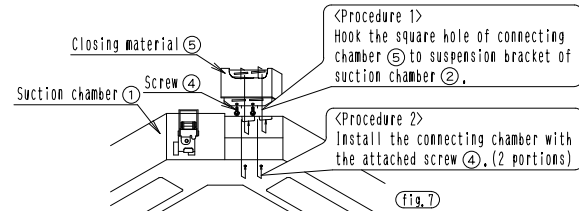


Fig.6 (Installation of closing material in case of one side intake) (for KDDP55D160 or KDD55DA160)

- Install the closing material in accordance with the following procedures, fig.7
- Closing material can be used either right or left side opening.



### 5 Duct connection < Duct: diameter φ 150 >

- 1) Attach the duct to the outside of the Branch duct chamber.
  - Wrap the duct tape(Field supplied) around the connection to prevent air leak.
  - Insulate the duct to prevent condensate.

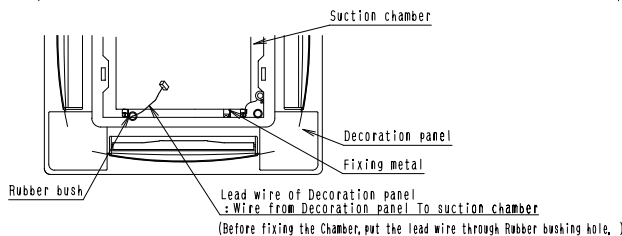
2) Do not perform the following duct work, **Caution**

- follow the local code or regulation to install the duct.
- In case that metal duct is penetrated through wooden wall, make sure the duct and the wall are electrically insulated.
- Install the outdoor unit duct inclined downwardly so that the rain will not get into the duct, (Inclination 1/100 to 1/50)
- Where it contact the outside air, make sure to install screen to avoid birds, small animals or insects getting inside the duct.
- Where it contact the outside air, make sure to install air filter to protect heat exchanger for indoor unit.



### 6 Installation of Decoration panel

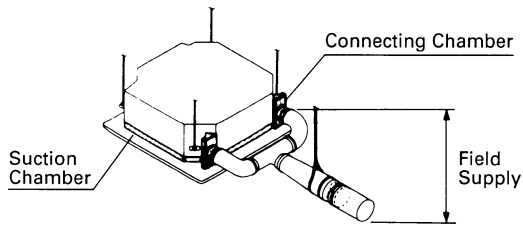
- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.



(In case of the panel for Wireless remote controller)

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional) for the detail.

**KDD55DA160 (Without T Joint, without Duct Fan)**



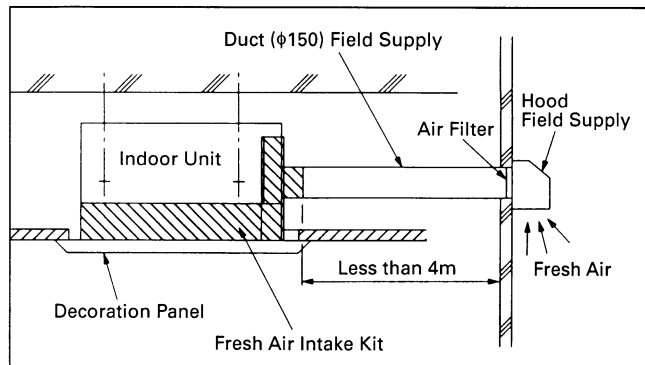
**Note:**

1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. In wireless remote controller use, Flexible Duct in the right can not connect.

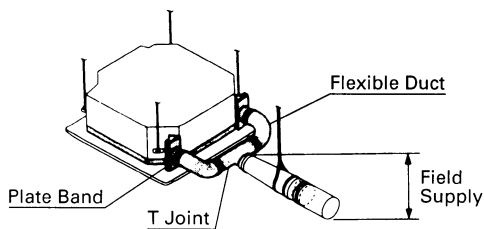
**• Specifications**

Kit Name	KDD55DA160
Item	
Method of Fresh Air Intake	Fresh Air Intake by The Indoor Unit Fan
Size of Connecting Duct	φ150
Applicable Models	For Indoor Unit

**• Example of Installation**



**KDDP55DA160K (With T Joint, without Duct Fan)**



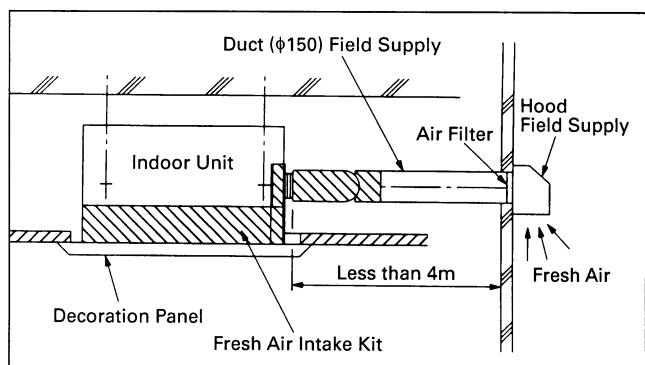
**Note:**

1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. It isn't possible to do simultaneous use with wireless remote controller.

**• Specifications**

Kit Name	KDD55DA160K
Item	
Method of Fresh Air Intake	Fresh Air Intake by The Indoor Unit Fan
Size of Connecting Duct	φ150
Applicable Models	FXF25-125LVE

**• Example of Installation**

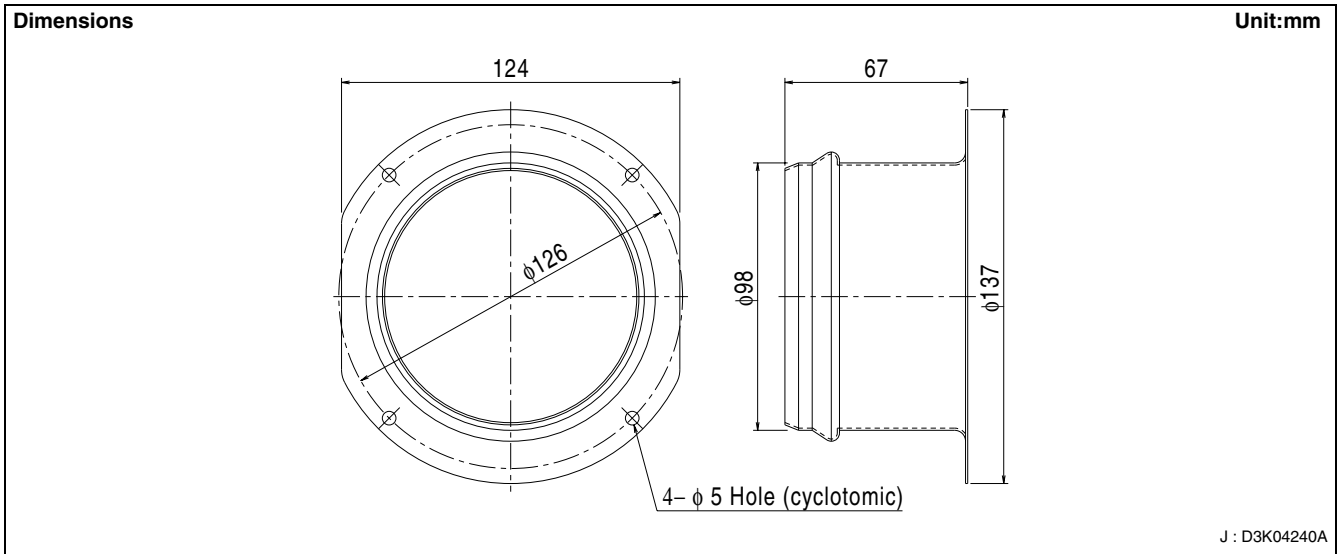


### 1.8 KDDP55X160 — Fresh Air Intake Kit (Direct Installation Type)

KDDP55X160



Item	Model	KDDP55X160
Material		Hot-dip zinc-coated carbon steel sheet
Diameter of connection duct		φ100
Accessories		Insulation material retainer plate : 1 Insulation material : 1 set Mounting screws : 4 Installation manual.









Installation

- Precautions**
- This kit can be mounted to a ceiling mounted cassette-type air conditioner.
  - When using this kit, a duct (nominal diameter:  $\phi 100$ ) is required separately.

- Beware that, in accordance with the local law, there may be cases where the use of a nonflammable duct is compulsory.
- When a duct goes through fire protection areas including a fire proof structure, beware that, in accordance with the local law, it may be required to establish a damper or to build a structure that is not detrimental to fire protection.
- When penetrating a wooden construction wall with a metal duct, apply electrical insulation to the duct and wall.
- Mount the outside duct so that it has a downslope toward the outside, and prevent rainwater from leaking in. (Gradient of 1/100 to 1/50)
- To prevent the intrusion of small animals, such as birds, and bugs, be sure to attach a netting to sections open to outside air.

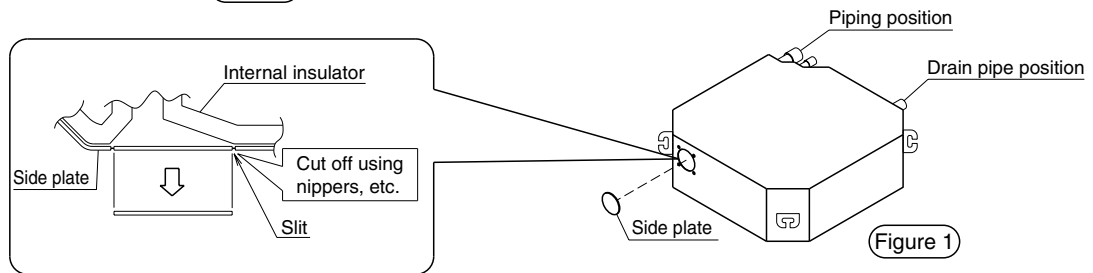
**Parts content** Check the following parts.

Name	① Duct flange	② Mounting screws	③ Duct flange insulator	④ Main body opening insulator	⑤ Sealing pad retainer	⑥ Installation manual
Number of pieces	1	4	1	1	1	1
Shape		 M4x12				

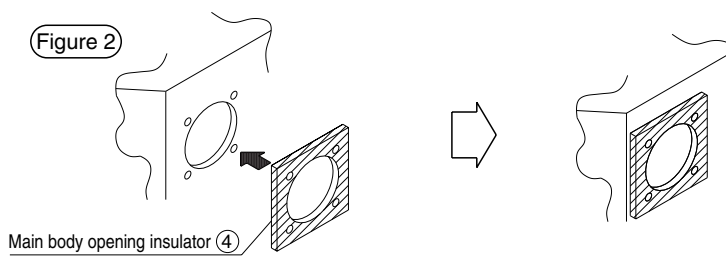
**Tools needed for mounting** Phillips-type screwdriver, nippers, and cutter, etc.

**1 Mounting of Duct Flange**

1) Cut off the side plate of the indoor unit main body along the dowel hole without damaging the internal insulator. (Figure 1)

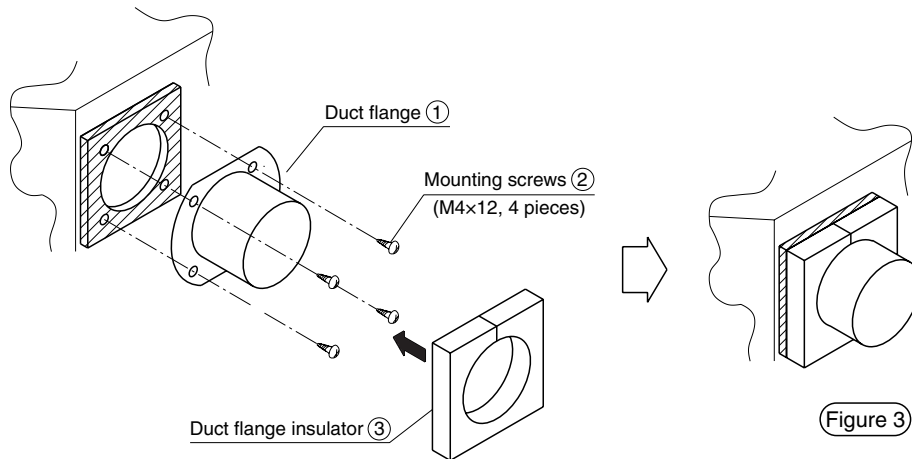


2) Stick the main body's opening insulator ④ to the opening. (Figure 2)

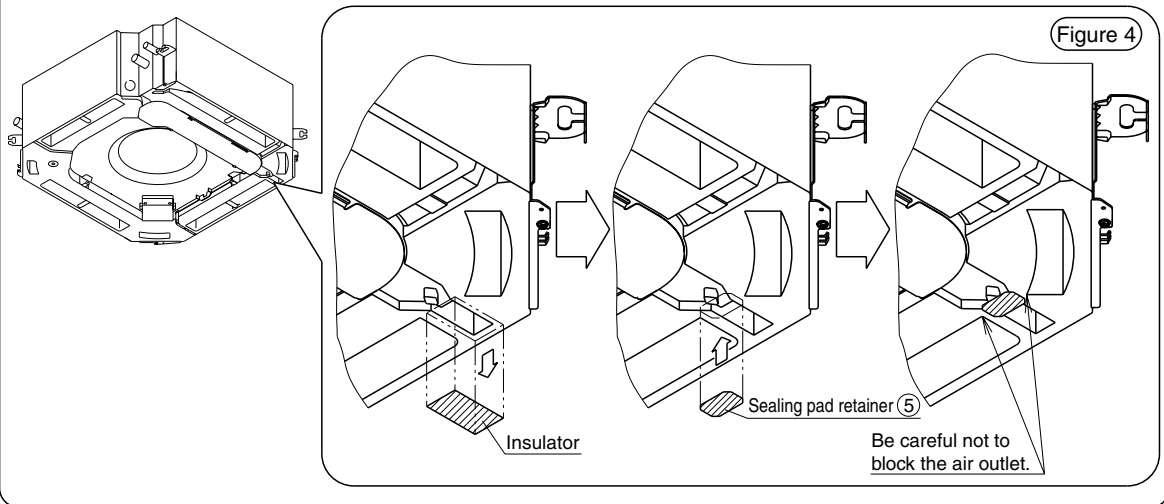


JC : 2P137676B

3) After mounting the duct flange ① to the opening using the mounting screws ② (M4×12, 4 pieces), stick the duct flange insulator ③. (Figure 3)

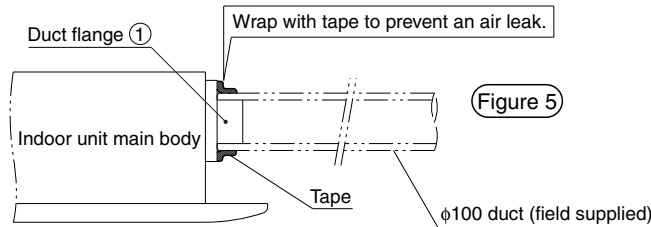


4) Before mounting the decoration panel, remove the insulator, and stick the sealing pad retainer ⑤ to the indoor unit drain pan. (Figure 4)



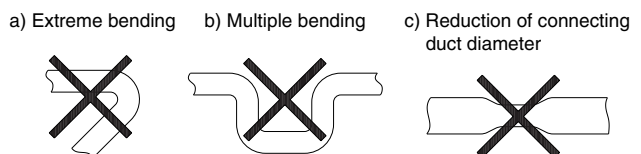
**2 Duct Connection** <<Duct: Nominal diameter  $\phi 100$ >>

1) Connect the duct to the outside of the duct flange. (Figure 5)  
 2) After the connection, wrap the connection area with tape (field supplied) to prevent an air leak.



**Precautions**

- Perform insulation for all ducts.
- Do not perform duct manipulations shown to the right.



J : 2P137676B

### 1.9 KDDJ55XA160 — Fresh Air Intake Kit (Direct Installation Type)

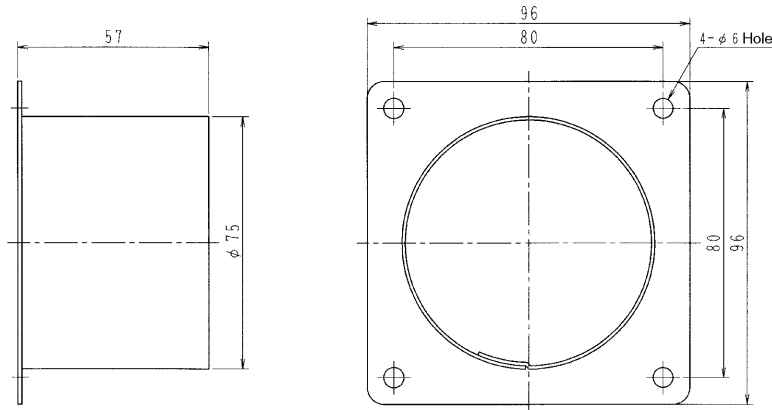
KDDJ55XA160



Item	Model	KDDJ55XA160
Material		Hot-dip zinc-coated carbon steel sheet
Diameter of connection duct		φ75
Accessories		Insulation material : 1 set Mounting screws : 4 Installation manual.

Dimensions

Unit:mm



JC : D3K2175

3  
1.9 KDDJ55XA160

Installation






Remarks:

1. This kit can be installed to the Ceiling mounted cassette type (Multi-flow).
2. When installing this kit, duct(Nominal dia. :  $\phi 75$ ) is required on site.

- In case that metal duct is penetrated through wooden walls, make sure the duct and the wall electrically insulated.
- Install the duct inclined downwardly to outdoor so that the rain may not get into the duct. (Inclination 1/100 to 1/50)
- To avoid birds, small animals or insects getting inside the duct, make sure to install net where it contacts the outside air.

Contents

Prior to installation, make sure you have the complete kit of parts.

Name	① Duct Flange	② Screws	③ Insulation for Duct Flange	④ Insulation for Opening of Unit	⑤ Installation Manual
Q'ty	1 piece	4 pieces	1 piece	1 piece	1 piece
Shape		 M4×12			

Necessary tools

Philips head screw driver, nipper, cutter etc.

1 Installation procedures of Duct flange

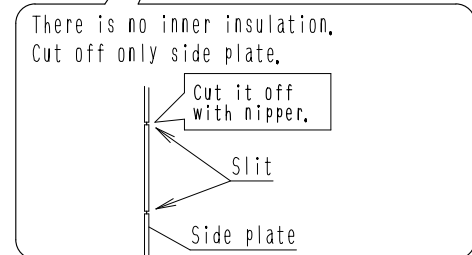
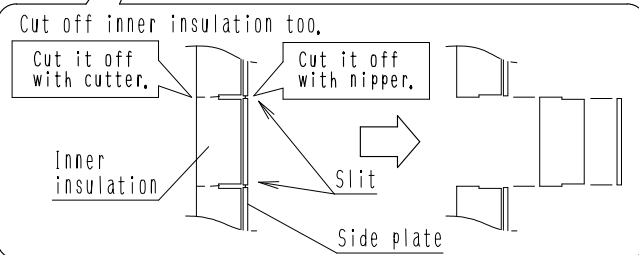
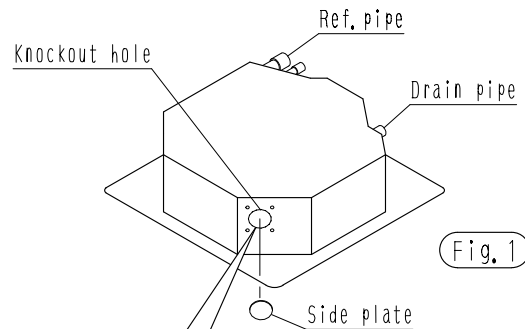
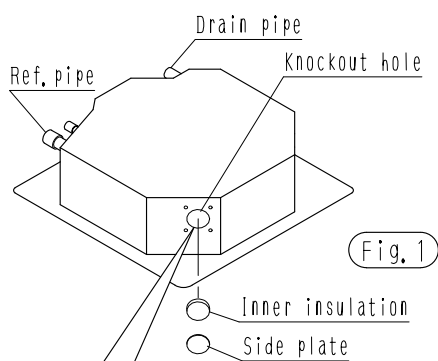
The method of installation varies with indoor unit type.

The unit type can be distinguished by the position of knockout hole.

1. Cut off the knockout hole on the side plate. (Fig. 1)

Unit type 1  
The knockout hole is opposite to drain pipe.

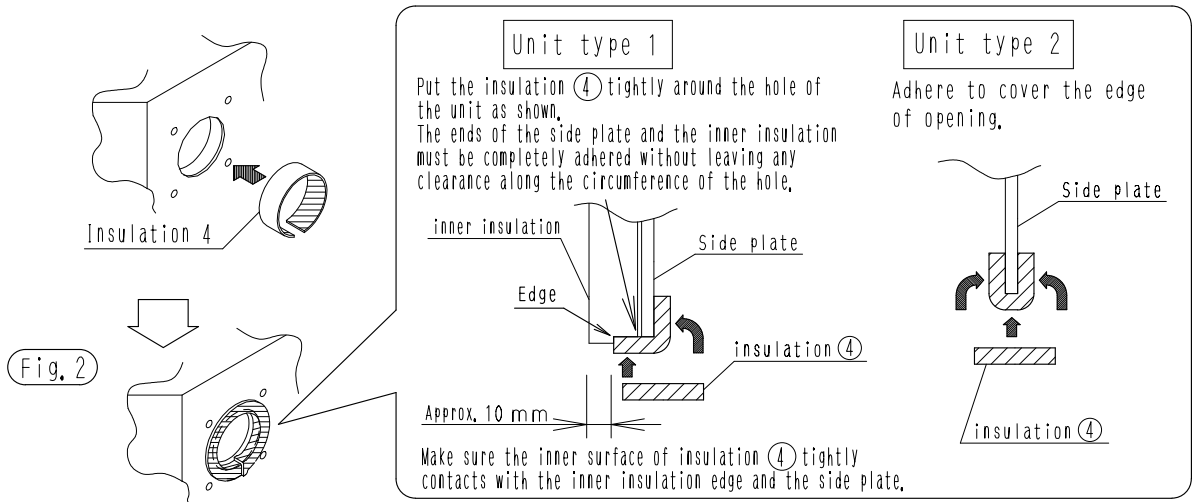
Unit type 2  
The knockout hole is opposite to ref. pipe.



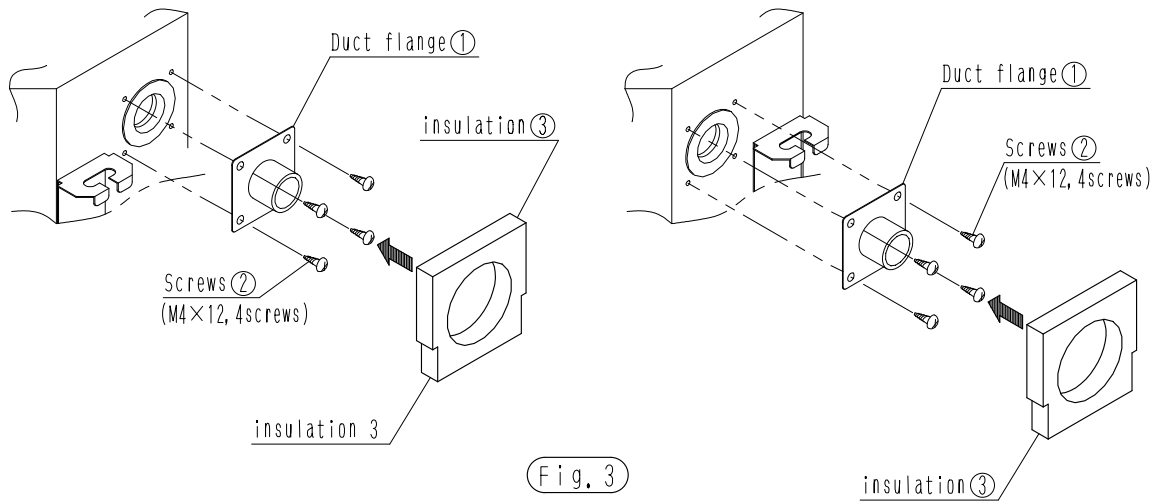
2P066796C



2. Adhere the insulation④ for opening of unit to the opening. (Fig.2)

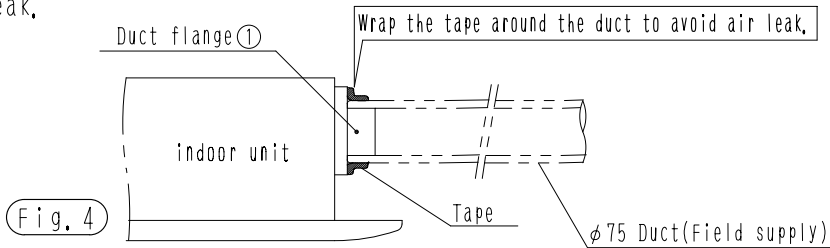


3. Install the duct flange① with screws② (M4×12, 4 screws) to the opening and adhere the insulation③ (Fig.3)



2 Installation procedures of Duct <Nominal diameter of duct:  $\phi 75$ >

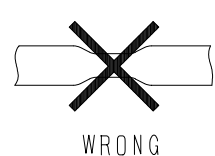
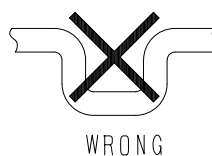
1. Connect the duct to the duct flange. (Flange fits inside the duct.) (Fig.4)
2. After connection, wrap vinyl tape (field supply) around the duct connection to prevent air leak.



Precaution

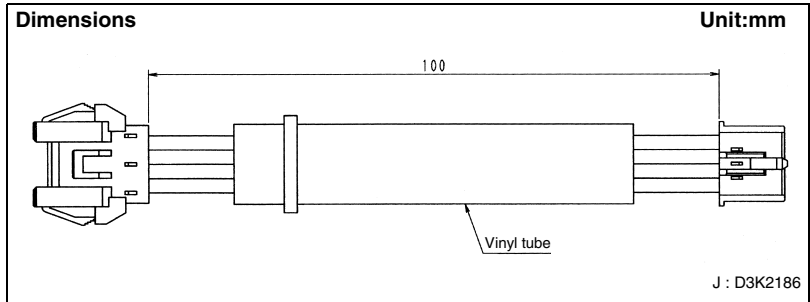
- ALL ducts must be completely insulated.
- Do not do the followings when installing duct.

- A) To bend the duct excessively    B) To bend the duct too many times    C) To reduce the duct diameter



# 1.10 KKSJ55KA160 — Chamber Connection Kit

KKSJ55KA160



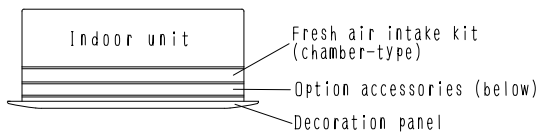
## Installation

### Daikin Air Conditioners Chamber Connection Kit Installation manual

KKSJ55K160 • KKSJ55KA160 Caution : Before installation, read this safety instruction.

#### Combining with option accessories (chamber-type)

- This chamber connection kit is for use with the multi-flow set. Refer to the catalog, etc, for details on the separately sold items (chamber-type) to be connected.
- Refer to the table at right for combinations of this kit and other option accessories(chamber-type). Also, be sure to install the fresh air intake (chamber-type) kit above.



		Above	
		Option accessories (chamber-type)	Fresh air intake kit
below	Air purification unit	○	
	High Efficiency filter unit	○	
	Ultra-long life filter unit	○	
	Fresh air intake kit		○

Combinations not listed in this table should not be attempted as they will cause malfunctions.

#### Contents of parts

Check the following parts

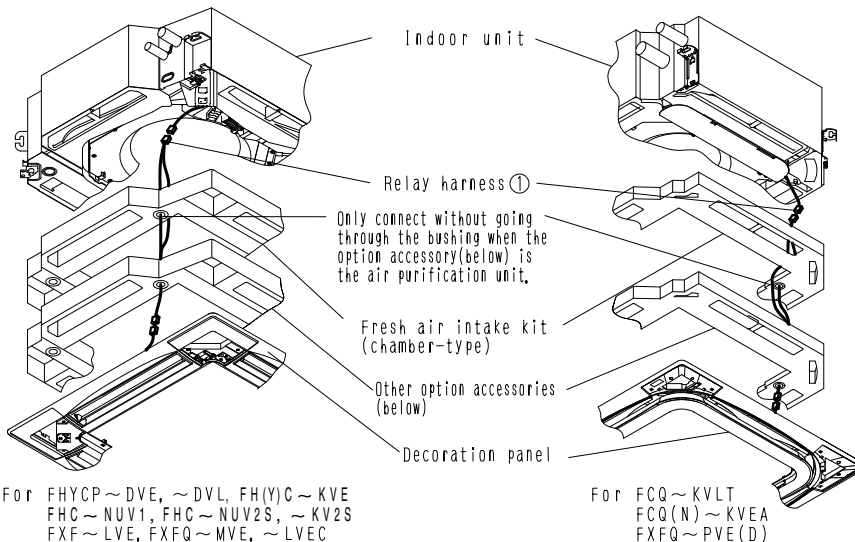
Name	Relay harness	Clamping material	Others
Shape	①	②	This Installation Manual
Quantity	1 PC,	2 PCS,	

#### Installation of the Chamber connection kit.

Refer to the installation (attachment) manuals included with the indoor unit, the option accessories (chamber-type), and Decoration panel for details on installation (attachment).

#### Caution

Extend the Decoration panel's swing motor lead wire using the included relay harness ① and connect it to the indoor unit. When doing this, use the included clamping material ② to tie the lead wire so it does not droop.



### 1.11 KDTP55K80-160 — Installation Kit for High Humidity

**Dimensions** **Unit:mm**

Model	AA	AB
KDTP55K80	245	157
KDTP55K160	287	186

J : D3K05113

Item	Model	KDTP55K80	KDTP55K160
Material		Polyethylene foam (with adhesive on the reverse side)	
Applicable ambient temperature		40°CDB, RH85%	
Accessories		Insulation for hanger bracket : 4 Installation manual.	

**3**  
1.11 KDTP55K80-160

Installation

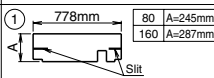
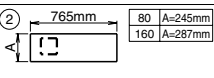
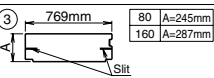
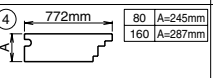
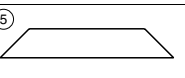
Precautions

- This kit can be mounted to an ceiling mounted cassette-type air conditioner <round flow>.
- According to the chart below, check the model name of indoor unit, then mount the kit.
- This kit cannot be used for the mounting of humidifier and branch duct.


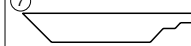

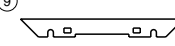

Combination table

Model name	Installable indoor unit model name	
KDTP55K80	SkyAir	FCQ71KVEA
	VRV	FXFQ25/32/40/50/63/80PVE
KDTP55K160	SkyAir	FCQ100K/125K/140KVEA
	VRV	FXFQ100/125PVE

Parts content Check the following parts.

Name	Side insulator plate (1)	Side insulator plate (2)	Side insulator plate (3)	Side insulator plate (4)	Top insulator plate (1)
Shape					
Number of pieces	1	1	1	1	1

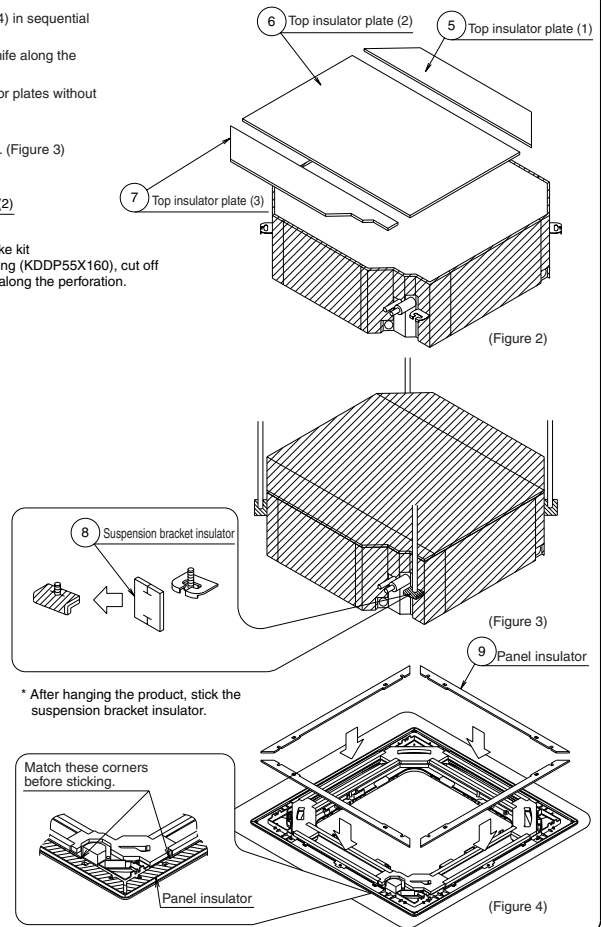
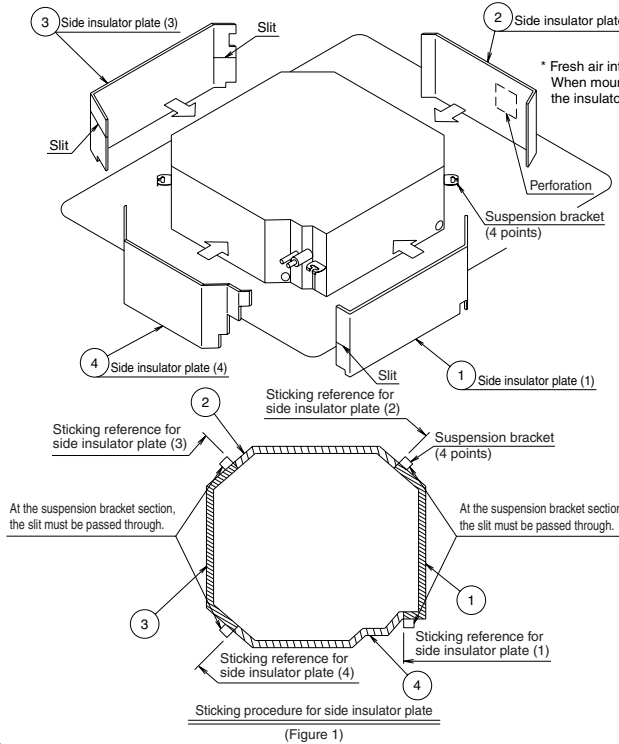
Name	Top insulator plate (2)	Top insulator plate (3)	suspension bracket insulator	Panel insulator	Installation manual
Shape					
Number of pieces	1	1	4	4	1 (This manual)

1 Sticking Procedure

- Perform the work on soft cloth to prevent damage to the indoor unit and panel.

<Procedure>

- (1) According to the sticking procedure for the side insulator plate, stick the side insulator plates (1 to 4) in sequential order without leaving any gap in between. (Figure 1)  
(When mounting the fresh air intake kit (KDDP55X160), cut off the side insulator plate (2) with a knife along the perforation. The cut-off insulator is no longer needed.)
- (2) Stick the top insulator plates (1 to 3) without leaving any gap in between. Also, stick the top insulator plates without leaving any gap against the side insulator plates all the way around. (Figure 2)
- (3) Hang the product.
- (4) Stick the suspension bracket insulator to the suspension bracket together with the washer and bolt. (Figure 3)
- (5) Lastly, stick the panel insulator to the backside of the panel. (Figure 4)



JC : 3P179341D

### 1.12 KDT-55DA80-160 — Installation Kit for High Humidity

**Dimensions** **Unit:mm**

Model	AA
KDT-55D80	243
KDT-55D160	285

JC: D3K03297

Item	Model	KDT-55DA80	KDT-55DA160
Material		Polyethylene foam (with adhesive on the reverse side)	
Accessories		Insulation for hanger bracket : 4 Installation manual.	

**3**  
1.12 KDT-55DA80-160

Installation

Caution

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner <Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- This kit cannot be attached to a humidifier or branch duct chamber.

Combination table

Kit name	Indoor unit model that party covered is possible	
KDT-55DB0	VRV	FXF25・32・40・50・63・80LVE
KDT-55D160	VRV	FXF100・125LVE

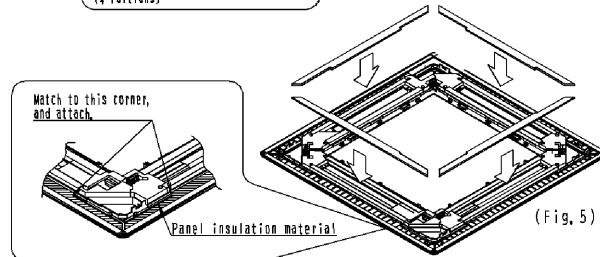
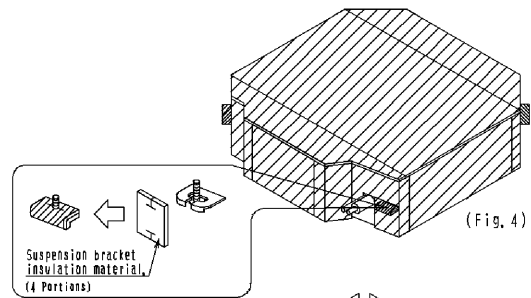
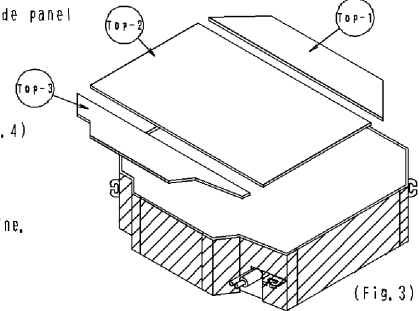
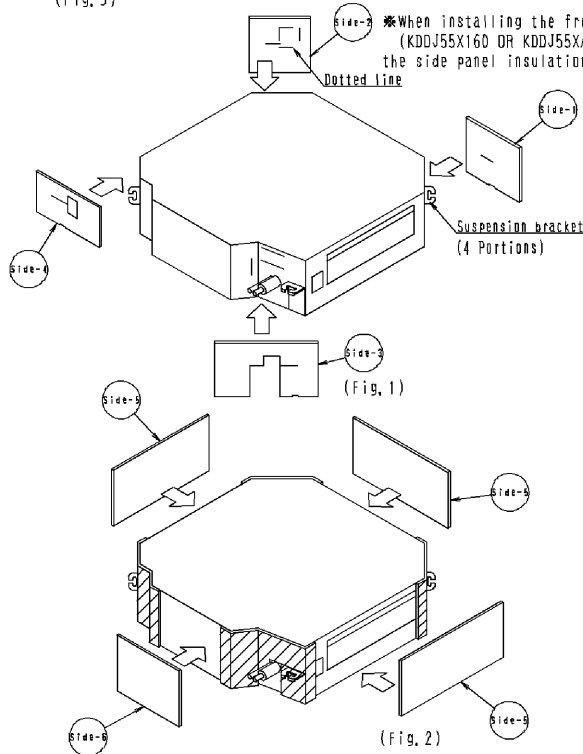
Contents of parts

Name	① Top plate insulation material (Top-1)	② Top plate insulation material (Top-2)	③ Top plate insulation material (Top-3)	④ Side plate insulation material (Side-1)	⑤ Side plate insulation material (Side-2)	
Shape						
Quantity	1	1	1	1	1	
Name	⑥ Side plate insulation material (Side-3)	⑦ Side plate insulation material (Side-4)	⑧ Side plate insulation material (Side-5)	⑨ Side plate insulation material (Side-6)	⑩ Suspension bracket insulation material	⑪ Panel insulation material
Shape						
Quantity	1	1	3	1	4	4

1 How to attach

<Procedure>

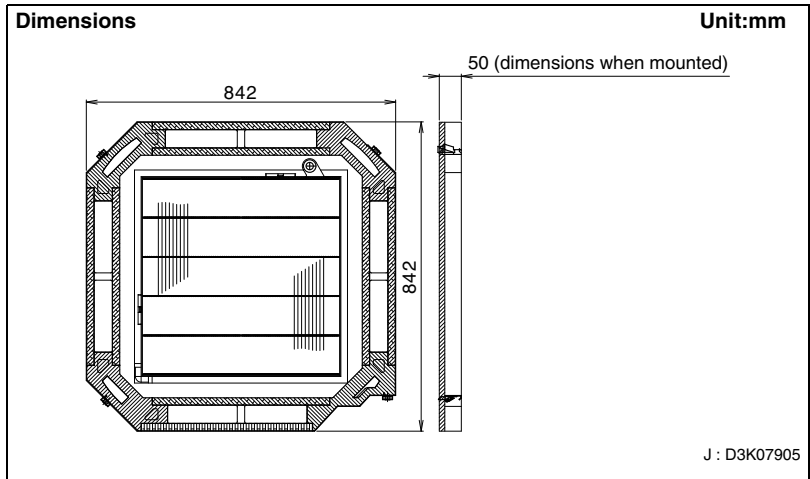
- (1) Match the slits on side plate insulation material (Side-1, -2, -3, -4) to the suspension bracket and attach to the side panel of the indoor unit. (Fig. 1)  
(When installing the fresh air intake kit (KDDJ55X160 OR KDDJ55XA160), tear the side panel insulation material (Side-2) at the dotted line.)
- (2) Attach the side panel insulation material (Side-5, -6) to the side panel of the indoor unit. Make sure there are no gaps between neighboring insulation materials. (Fig. 2)
- (3) Attach the top panel insulation material (Top-1, -2, -3), making sure there are no gaps. (Fig. 3)
- (4) Attach the Suspension bracket insulation material to the Suspension brackets. (Fig. 4)
- (5) Finally, attach the panel insulation material to the rear side of the panel. (Fig. 5)



C: 3K010927F

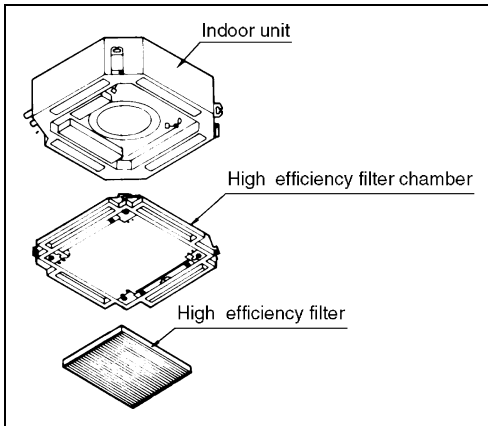
### 1.13 KAFP556B80 / KAFP556B160, KAFP557B80 / KAFP557B160 — High Efficiency Filter (Including Chamber)

KAFP556B80 / KAFP556B160  
KAFP557B80 / KAFP557B160



**Caution**

· Field setting by remote controller is necessary when the high efficiency filter is installed.



Model		KAFP556B80	KAFP556B160	KAFP557B80	KAFP557B160
Material		Galvanized sheet iron. Foam polystyrene.			
Initial pressure loss	Pa	34 or less			
Final pressure loss	Pa	98 or less			
Average efficiency	%	65 (colorimetric method)		90 (colorimetric method)	
Air flow rate	m <sup>3</sup> /min	20	33	20	33
	l/sec	333	550	333	550
Life	h	2,500 (dust concentration 0.15 mg/m <sup>3</sup> )		1,800 (dust concentration 0.15 mg/m <sup>3</sup> )	
Filter element		Non-woven fabric of synthetic fiber			
Number of sheets included		1	1	1	1
Accessories		Installation manual. Sealing material : 2			
Mass (Weight)	kg	3.6	4.2	3.6	4.2
Replacement filter (optional accessories)		KAFP552B80	KAFP552B160	KAFP553B80	KAFP553B160

**3** 1.13 KAFP556B80 / KAFP556B160, KAFP557B80 / KAFP557B160

Installation

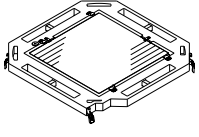

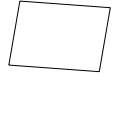
**Caution** After thoroughly reading these "Safety precautions", properly perform the installation.

- For the installation parts, accessory parts and specified components must always be used.
- If the specified components are not used, the kit may fall or an air leak may occur.
- After the completion of installation, perform a test run to check that no abnormality is present.

**Recommendations**

- This product can be mounted to a ceiling mounted cassette-type air conditioner <round flow >.
- According to the table below, check the model name of the indoor unit main body, then mount the product.
- At the time of mounting, also refer to the installation manual of the indoor unit and to the installation manual of the decoration panel.

**Parts content** Check the following parts.

Name	High efficiency filter unit	Sealing pad	Installation manual
Shape			
Number of pieces	1	2	1 (This document)

**Combination table**

Model name	Installable indoor unit model name / Panel model name	
KAFP556B80 KAFP557B80	SkyAir	FCQ71KVEA
	VRV	FXFQ25/32/40/50/63/80PVE
KAFP556B160 KAFP557B160	SkyAir	FCQ100K/125K/140KVEA
	VRV	FXFQ100/125PVE
Panel	BYCP125K-W1	

**1 Mounting of High Efficiency Filter Unit**

\* When the indoor unit main body is already installed, perform the following operations, complying with precautions below.

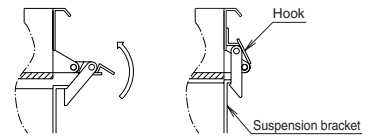
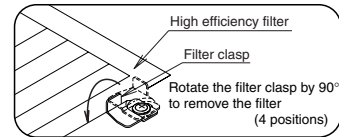
Shut off power supply before performing the operation.  
Remove the decoration panel from the indoor unit's main body.  
(For details, refer to the installation manual attached to the decoration panel.)

\* When the indoor unit main body is newly installed

- Remove the high efficiency filter from the high efficiency filter unit. (Figure 1)
- Mount the high efficiency filter unit to the indoor unit main body using the hooks (4 positions). (Figure 2) to (Figure 4)  
For the fixing method of the hooks, refer to the figure to the right. Mount at 4 positions.

\* Mount so that the contours of the indoor unit main body and chamber match. (Figure 3) (Figure 5)

Figure 1



Fixing method of hooks

Figure 2

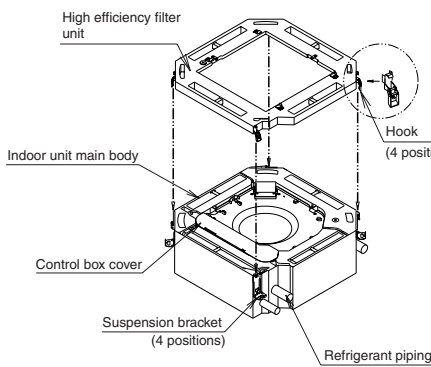


Figure 3 Mounting status

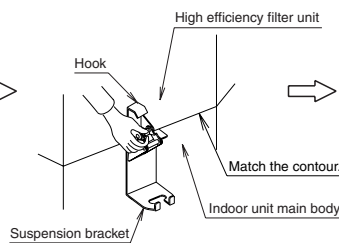


Figure 4 Status after mounting

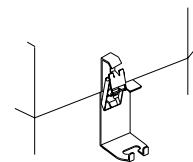
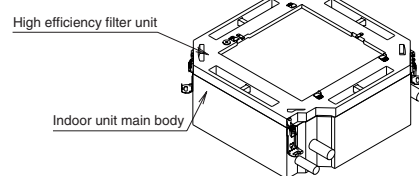


Figure 5 Drawing of mounting at completion

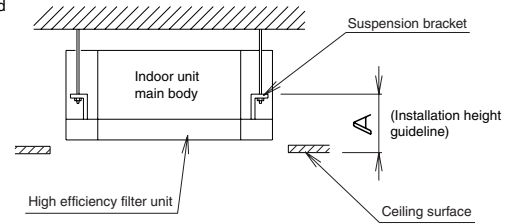


JC : 3K022806

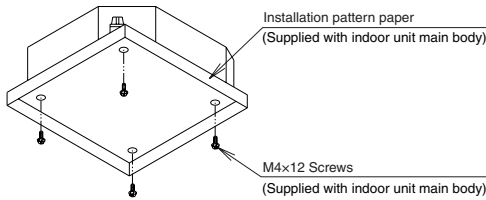


**2** Installation of Indoor Unit Main Body and High Efficiency Filter Unit

- Install the indoor unit main body and high efficiency filter unit.  
At the time of installation, perform engineering work according to the installation manual attached to the air conditioner's main body. (For the installation height, refer to the figure to the right.)
- When mounting the high efficiency filter unit to the existing indoor unit main body, change the installation height of the indoor unit main body to height **A** in the figure to the right.
- Mount the supplied installation pattern paper to the indoor unit using screws to cure the indoor unit.  
(Refer to the installation manual for the indoor unit main body.)  
(Refer to the figure below.)



	<b>A</b> (mm)
BYCP125K-W1	185

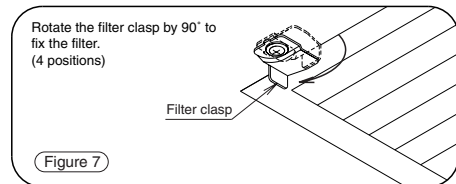
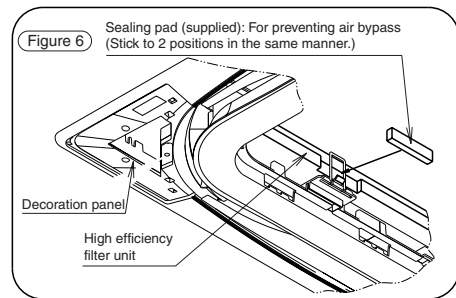
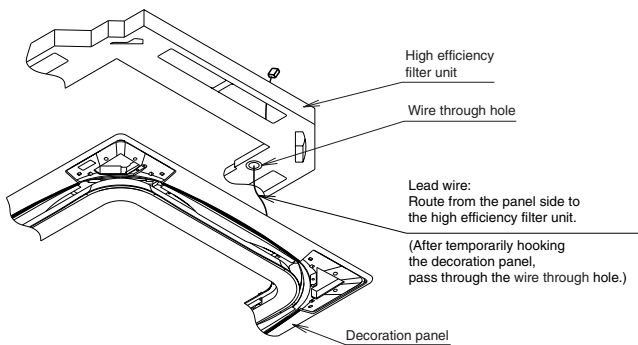


[Mounting of installation pattern paper]

- Complete all the refrigerant and drain piping work for the indoor unit main body.

**3** Mounting of Decoration Panel and Mounting of High Efficiency Filter

- After temporarily hooking the decoration panel, pass the lead wire, which is coming out from the decoration panel, through the wire through hole of the high efficiency filter unit.  
<Round flow> 1 swing motor lead wire
- Mount the decoration panel according to the installation manual attached to the decoration panel.



- Mounting of high efficiency filter  
After the completion of wiring and sticking of sealing pad (2 positions), mount the high efficiency filter. (Figure 6) (Figure 7)  
When you attach the high efficiency filter to the unit, do not apply too much force to the filter.

With wireless unit

- Route the connector of the receiver lead wire through the wire through hole, then connect the connector on the indoor PC board ass'y.
- For details on the connection method, refer to the installation manual attached to the wireless remote control kit (sold separately).

**4** Preparation of Indoor Unit

- With the mounting of a high efficiency filter unit, setting the indoor unit main body is required.  
Using the field setting mode on the remote control, change the second code number as shown in the table to the right.  
For the field setting mode, refer to "How to perform field setting" attached to the remote control.

Mode number	First code number	Second code number	Remarks
13 or 23	0	02	80 only
	1	02	Both 80 and 160

JC : 3K022806

### 1.14 KAF556DA80-160, KAF557DA80-160 — High Efficiency Filter (Including Chamber)

KAFP556DA80

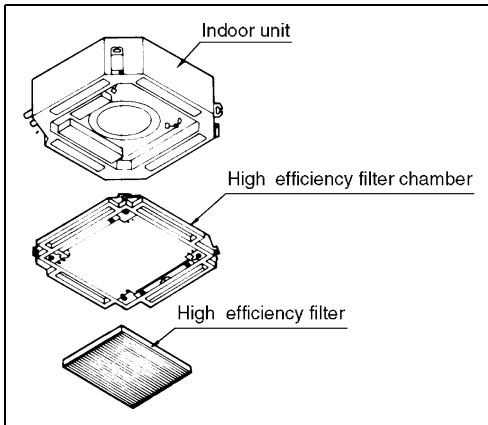


**Caution**

- Field setting by remote controller is necessary when the high efficiency filter is installed.

**Dimensions** **Unit:mm**

JC: D3K03295



Model		KAF556DA80	KAF556DA160	KAF557DA80	KAF557DA160
Material		Galvanized sheet iron. Foam polystyrene.			
Initial pressure loss	Pa	34 or less			
Final pressure loss	Pa	98 or less			
Average efficiency	%	65 (colorimetric method)		90 (colorimetric method)	
Air flow rate	m <sup>3</sup> /min	19	35	19	35
	l/sec	317	583	317	583
Life	h	2,500 (dust concentration 0.15 mg/m <sup>3</sup> )		1,800 (dust concentration 0.15 mg/m <sup>3</sup> )	
Filter element		Non-woven fabric of synthetic fiber			
Number of sheets included		1	1	1	1
Accessories		Installation manual.			
Mass (Weight)	kg	3.6	4.2	3.6	4.2
Replacement filter (optional accessories)		KAFP552B80	KAFP552B160	KAFP553B80	KAFP553B160

**Installation**

**Caution** Before starting the installation work, carefully read the following safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or specified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnormality during the trial operation.

**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner (Multi-flow type).
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Components** Check if following parts are included with your kit.

Name	High Efficiency Filter Unit	Installation manual
Shape		
Quantity	1 PC.	1 PC.

**Combination table**

Kit name	Indoor unit model that party crowd is possible	
KAFP556D80 KAFP556DA80 or KAFP557D80 KAFP557DA80	VRV	FXF25・32・40・50・63・80LVE
KAFP556D160 KAFP556DA160 or KAFP557D160 KAFP557DA160	VRV	FXF100・125LVE

**1 Preparation of indoor unit**

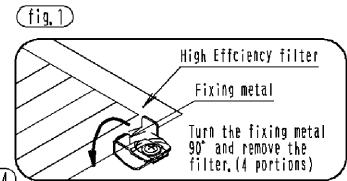
- When you install the High Efficiency filter, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.

Mode No.	Setting switch No.	Setting position No.	Remarks
13 or 23	0	02	Only 80
	1	02	Both 80 and 160

**2 Installation of the High Efficiency filter unit**

1. Remove the decoration panel. (This is not required for the new installation)
  - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)

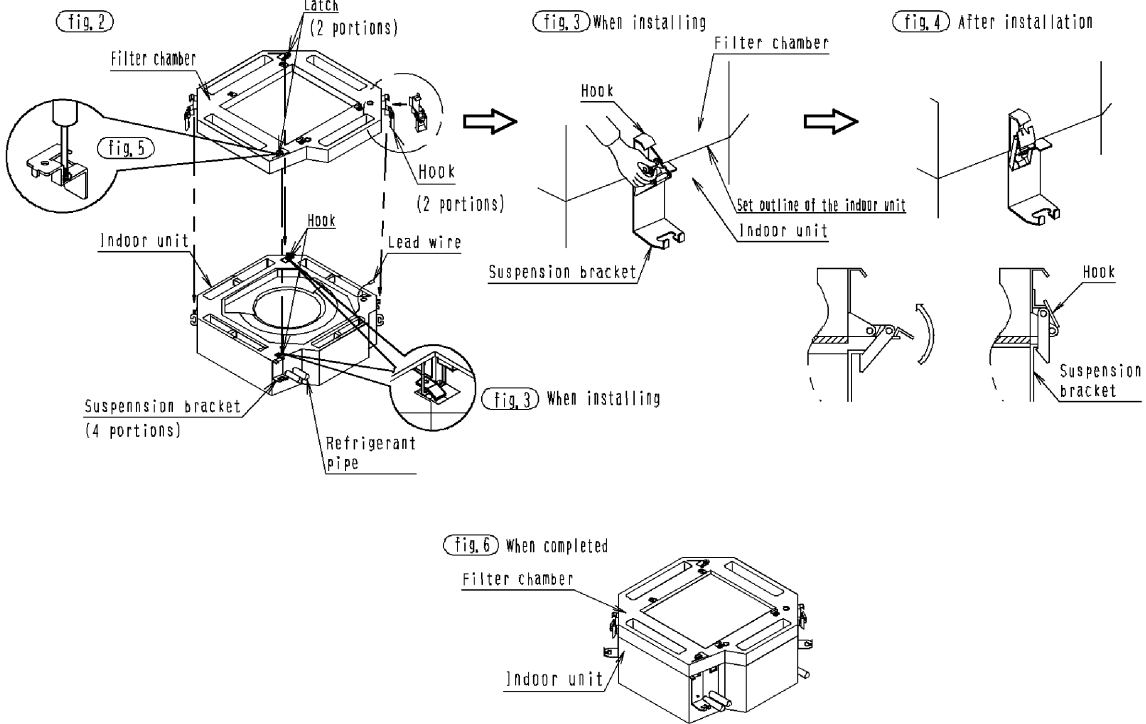
2. Remove the High Efficiency filter. (fig.1)



3. Temporarily install the filter chamber to the indoor unit by hanging the latch on the opposite side of the filter chamber to the hook of the indoor unit body. (2 portions)  
Temporarily hang the remaining 2 hooks of the filter chamber to the hooks on the sides of the indoor unit. (fig.2) ~ (fig.4)  
(When the indoor unit is already installed, hang the hook to the suspension bracket temporarily and fix the hook.)

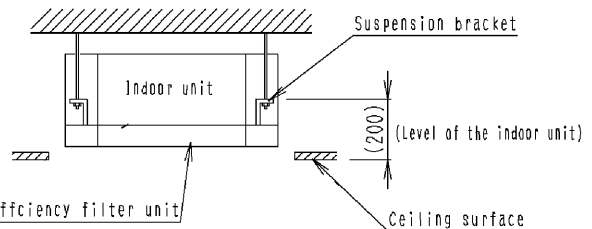
※Installation set outline of the indoor unit

4. Tighten 2hexahead screws located beneath the latches until the thickness of the sealing material of chamber reduces to 5~8mm.

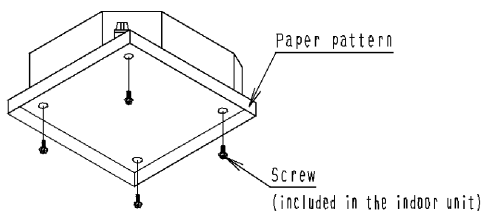


**3 Installation of the indoor unit and the High Efficiency filter unit**

- Install the indoor unit and the High Efficiency filter unit. Refer to the installation manual of the indoor unit. (For the height of the unit, refer to the drawing on the right.)
- Be complete installed refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. (See below) (When the indoor unit is newly installed) (See below)
- In case of attaching the chamber after installed indoor unit. For the height of the unit, change the height shown on the right drawing.

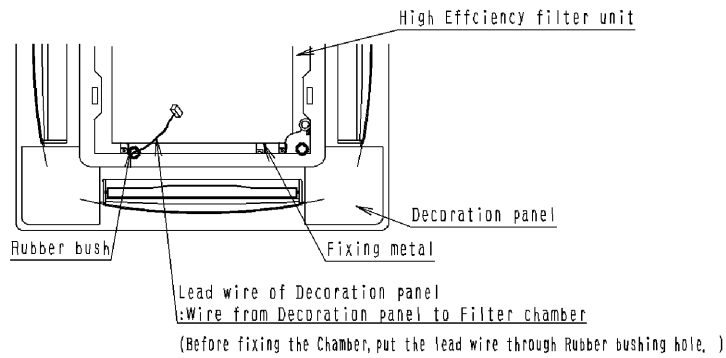


[ Attachment of the paper pattern ]



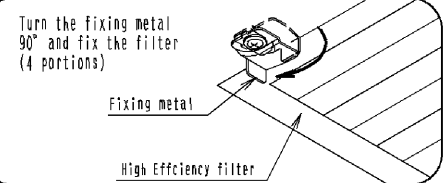
**4 Installation of the Decoration panel and the High Efficiency filter**

- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.



- Installation of the High Efficiency filter  
After connecting, install the Filter chamber. **fig. 7**

**fig. 7**



**In case of the panel for Wireless remote controller**

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

3K011145B

### 1.15 KAFP552B80-160, KAFP553B80-160 — Replacement High Efficiency Filter

**Dimensions** Unit:mm

Model	A
KAFP552B80 · KAFP553B80	25
KAFP552B160 · KAFP553B160	45

J: D3K07954

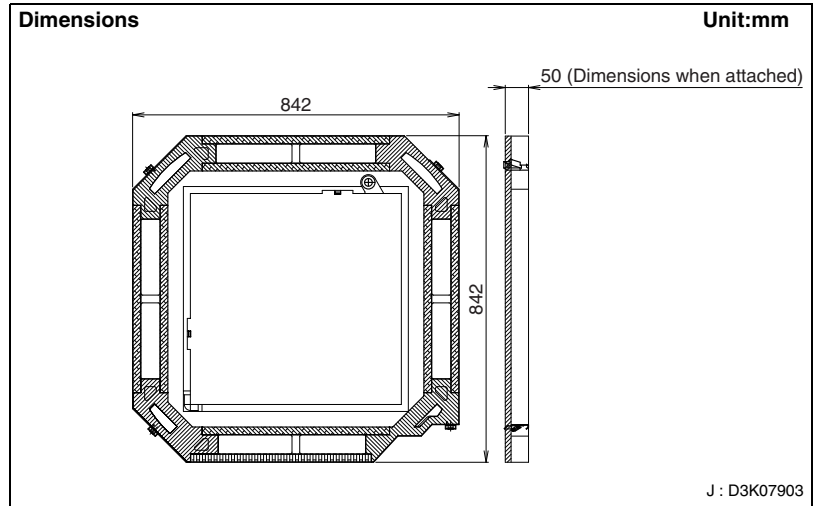
**Caution**

- Cannot be water-washed for reuse.
- The filter chamber (KDDFP55B160 or KDDF55DA160) is required when the high efficiency filter will be installed.

Model		KAFP552B80	KAFP552B160	KAFP553B80	KAFP553B160
Initial pressure loss	Pa	34 or less			
Final pressure loss	Pa	98 or less			
Average efficiency	%	65 (colorimetric method)		90 (colorimetric method)	
Air flow rate	m <sup>3</sup> /min	23.5	35.5	23.5	35.5
	l/sec	392	592	392	592
Life	h	2,500 (dust concentration 0.15 mg/m <sup>3</sup> )		1,800 (dust concentration 0.15 mg/m <sup>3</sup> )	
Filter element	Non-woven fabric of synthetic fiber				
Number of sheets included		1	1	1	1
Mass (Weight)	kg	0.6	1.2	0.6	1.2

**3** 1.15 KAFP552B80-160, KAFP553B80-160

### 1.16 KDDFP55B160 — High Efficiency Filter Chamber



Item		Model	KDDFP55B160
Inserted filter	High efficiency filter	65% (colorimetric method)	KAFP552B80 KAFP552B160
		90% (colorimetric method)	KAFP553B80 KAFP553B160
	Ultra long-life filter		KAFP55H160H
Material			Galvanized sheet iron. Foam polystyrene.
Accessories			Installation manual Sealing pad : 2
Mass (Weight)		kg	3.0

Installation

- Caution** After thoroughly reading these "Safety Precautions", properly perform the installation.
- For the installation parts, accessory parts and specified components must always be used.
  - If the specified components are not used, the kit may fall or an air leak may occur.
  - After the completion of installation, perform a test run to check that no abnormality is present.

**Recommendations** (When using ultra-long life filter)

The ultra-long life filter can be reused after cleaning. After engineering work is completed, provide instructions to the customer about the filter cleaning interval and how to remove the filter.

**Parts content** Check the following parts.

Name	Filter chamber	Sealing pad	Installation manual
Shape			
Number of pieces	1	2	1 (This document)

**Recommendations**

- This product can be mounted to ceiling mounted cassette-type air conditioner <round flow>.
- According to the table below, check the model name of the indoor unit main body, then mount the product.
- At the time of mounting, also refer to the installation manual for the indoor unit and to the one for the decoration panel.

**Combination table**

Model name	High efficiency filter	Ultra-long life filter	Installable indoor unit model name / Panel model name	
KDDFP55B160	KAFP552B80 Or KAFP553B80	KAFP55H160H	SkyAir	FCQ(N)71KVEA FCQ71KVLTL
			VRV	FXFQ25/32/40/50/63/80PVE
	KAFP552B160 Or KAFP553B160	KAFP55H160H	SkyAir	FCQ(N)100K/125K/140KVEA FCQ100K/125K/140KVLTL
			VRV	FXFQ100/125PVE
	Panel		BYCP125K-W1	

**1 Mounting of Filter Chamber**

\* When the indoor unit main body is already installed, perform the following operations, complying with precautions below.

Shut off power supply before performing the operation.  
Remove the decoration panel from the indoor unit main body.  
(For details, refer to the installation manual attached to the decoration panel.)

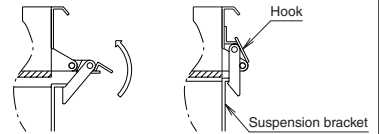
\* When the indoor unit main body is newly installed

(1) Mount the filter chamber to the indoor unit main body using the hooks (4 positions).

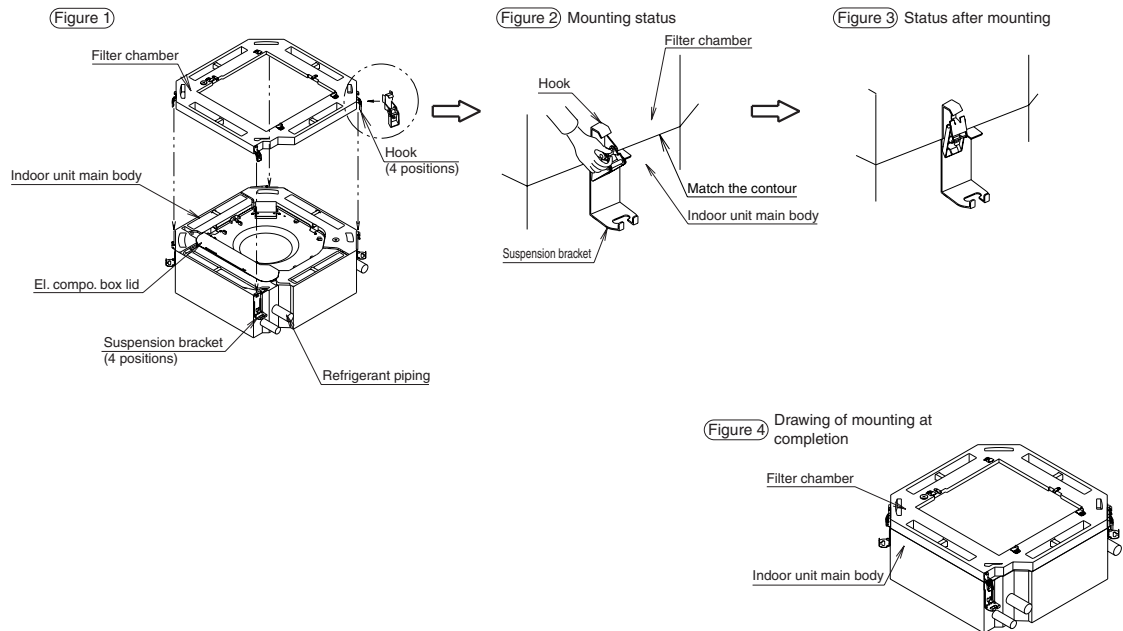
(Figure 1) to (Figure 3)

For the fixing method of the hooks, refer to the figure to the right. Mount at 4 positions.

\* Mount so that the contours of the indoor unit main body and chamber are match. (Figure 2) (Figure 4)



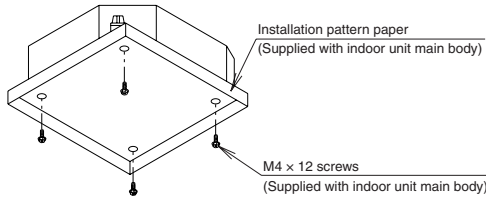
Fixing method of hooks



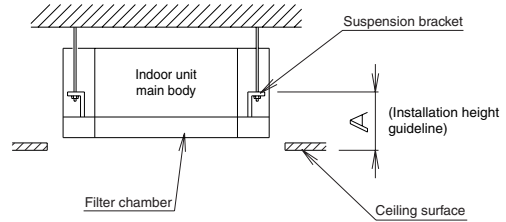
JC : 3K022717

**2** Installation of Indoor Unit Main Body and Filter Chamber

- Install the indoor unit main body and filter chamber.  
At the time of installation, perform engineering work according to the installation manual attached to the air conditioner's main body. (For the installation height, refer to the figure to the right.)
- When mounting the filter chamber to the existing indoor unit main body, change the installation height of the indoor unit main body to height  $\Delta$  in the figure to the right.
- Mount the supplied installation pattern paper to the indoor unit using screws to cure the indoor unit.  
(Refer to the installation manual of the indoor unit main body.)  
(Refer to the figure below.)



[Mounting of installation pattern paper]

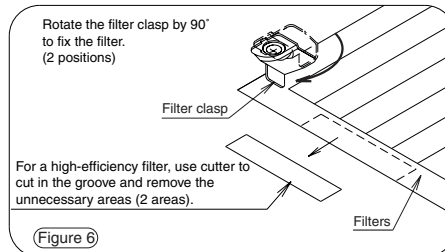
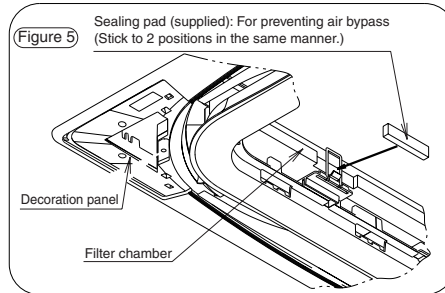
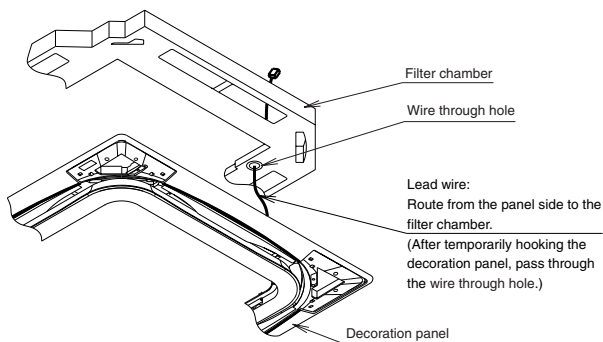


	$\Delta$ (mm)
BYCP125K-W1	185

- Complete all the refrigerant and drain piping work for the indoor unit main body.

**3** Mounting of Decoration Panel and Mounting of Filter Chamber

- After temporarily hooking the decoration panel, pass the lead wire, which is coming out from the decoration panel, through the wire through hole of the filter chamber.  
<Round flow> 1 swing motor lead wire
- Mount the decoration panel according to the installation manual attached to the decoration panel.



- Mounting of filter  
After the completion of wiring and sticking of sealing pad (2 positions), mount the filter.  
However, for a high-efficiency filter, use cutter to cut in the groove and remove the unnecessary areas (2 areas) before installing the filter.

(Figure 5) (Figure 6)

- \* When you attach the high efficiency filter to the unit, do not apply too much force to the filter.

(With wireless unit)

- Route the connector of the receiver lead wire through the wire through hole, then connect the connector on the indoor PC board assembly.
- For details on the connection method, refer to the installation manual attached to the wireless remote control kit (sold separately).

**4** Preparation of Indoor Unit

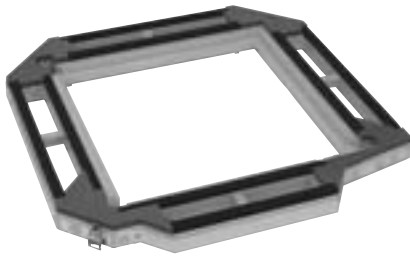
- Depending on the types of mounting filters, setting the indoor unit main body is may be required.  
Using the field setting mode on the remote control, switch to the second code number shown in the table to the right.  
For the field setting mode, refer to "How to perform field setting" attached to the remote control.

Filter name	Mode number	First code number	Second code number	Filter sign display interval time
High performance filter	80 only	0	02	_____
	Both 80 and 160	13 or 23	02	
Ultra-long life filter	10 or 20	0	01	Approximately every 10,000 hours
			02	Approximately every 5,000 hours
		1	02	Initial setting for ultra-long life filter



# 1.17 KDDF55DA160 — High Efficiency Filter Chamber

KDDF55DA160



**Dimensions** **Unit:mm**

JC: D3K03293

**3**  
1.17 KDDF55DA160

Item		Model	KDDF55DA160
Inserted filter	High efficiency filter	65% (colorimetric method)	KAFP552B80 KAFP552B160
		90% (colorimetric method)	KAFP553B80 KAFP553B160
	Ultra long-life filter		KAF55KA160H
Material			Galvanized sheet iron. Foam polystyrene.
Accessories			Installation manual Sealing pad : 2
Mass (Weight)		kg	3.0

## Installation

**⚠Caution** Before starting the installation work, carefully read the following, safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or specified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnormality during the trial operation.

**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner (Multi-flow type).
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Notes** (In case of using the Ultra-long life filter)

Ultra-long life filter can be reused by cleaning. After installation, instruct filter cleaning period and removing to customers.

**Components** Check if following parts are included with your kit.

Name	Filter chamber	Installation manual
Shape		
Quantity	1 PC.	1 PC.

**Combination table**

Kit name	High Efficiency filter	Ultra-long life filter	Indoor unit model that party crowd is possible	
KDDF55DA160	KAFP552B80 KAFP553B80	KAF55KA160H	VRV	FXF25・32・40・50・63・80LVE
	VRV		FXF100・125LVE	

### 1 Preparation of indoor unit

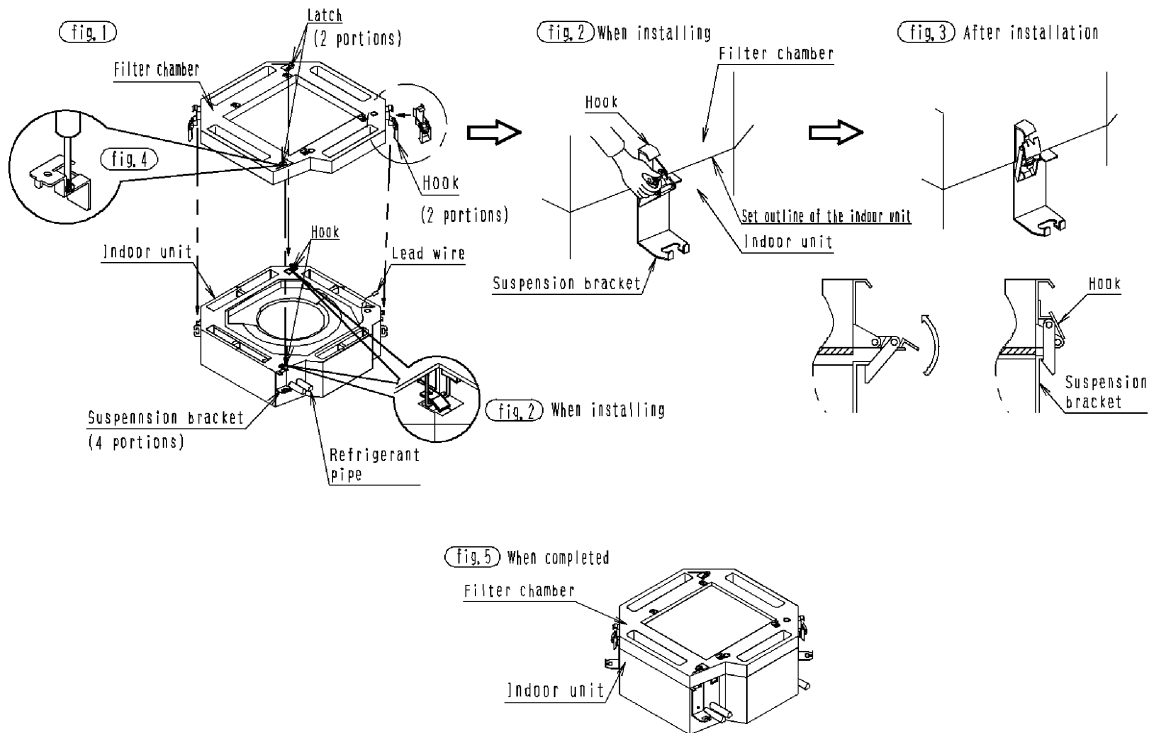
- When you install the Ultra-long life filter, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.

Filter name	Mode No.	Setting switch No.	Setting position No.	Contents of setting	
High Efficiency filter	Only 80 Both 80 and 160	13 or 23	0	02	Filter cleaning period : Every 10,000 hrs
			1	02	
Ultra-long life filter	10 or 20	0	Less dusty place	01	Filter cleaning period : Every 5,000 hrs
			Dusty place	02	Filter cleaning period : Every 5,000 hrs
				02	Filter sign display-Ultra-long life filter

C: 3K01148B

## 2 Installation of Filter chamber

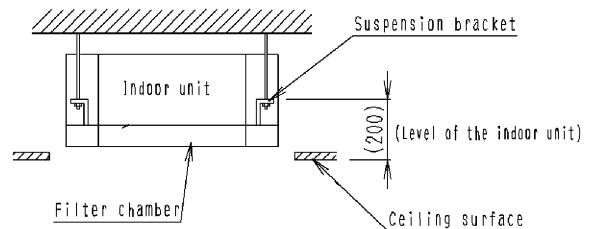
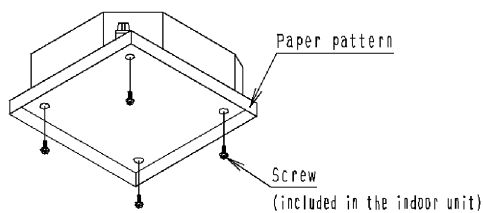
1. Remove the decoration panel. (This is not required for the new installation)
  - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)
2. Temporarily install the filter chamber to the indoor unit by hanging the latch on the opposite side of the filter chamber to the hook of the indoor unit body, (2 portions) Temporarily hang the remaining 2 hooks of the filter chamber to the hooks on the sides of the indoor unit. (fig.1) ~ (fig.3) (When the indoor unit is already installed, hang the hook to the suspension bracket temporarily and fix the hook.)
  - ※Installation set outline of the indoor unit (fig.2)
3. Tighten 2hexahead screws located beneath the latches until the thickness of the sealing material (fig.4) (fig.5) of chamber reduces to 5~8mm.



## 3 Installation of the indoor unit and the Filter chamber

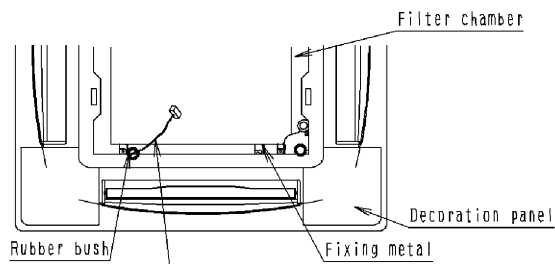
- Install the indoor unit and the filter chamber. Refer to the installation manual of the indoor unit. (For the height of the unit, refer to the drawing on the right.)
- Be complete installed refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. (See below) (When the indoor unit is newly installed) (See below)
- In case of attaching the chamber after installed indoor unit. For the height of the unit, change the height shown on the right drawing.

[ Attachment of the paper pattern ]



#### 4 Installation of Decoration panel and the Filter

- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.



Lead wire of Decoration panel  
:Wire from Decoration panel to Filter chamber  
(Before fixing the Chamber, put the lead wire through Rubber bushing hole. )

- Installation of Filter  
After connecting, install the Filter chamber. (Fig.6)

(Fig.6)

Turn the fixing metal  
90° and fix the filter  
(4 portions)

Fixing metal  
High efficiency filter  
Or  
Ultra-long life filter

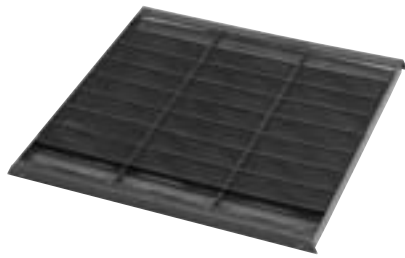
#### In case of the panel for Wireless remote controller

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

3K011148B

### 1.18 KAFP551K160 — Replacement Long-life Filter

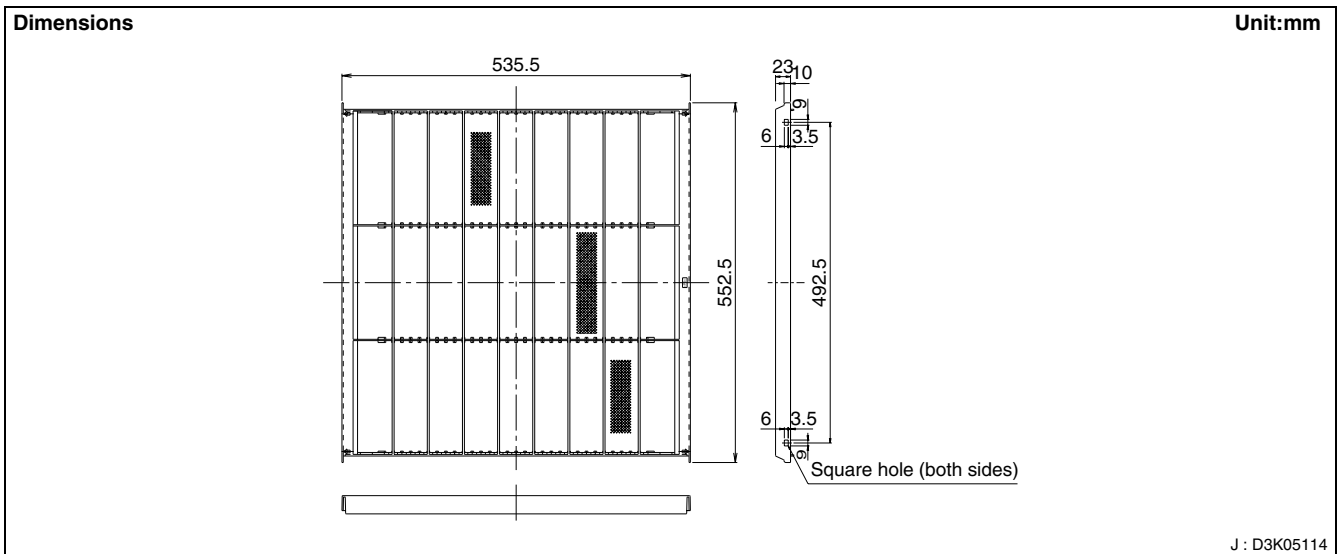
KAFP551K160



Item		Model	KAFP551K160
Initial pressure loss	Pa		4.9 or less
Final pressure loss	Pa		49 or less
Average efficiency	%		60 (gravity method)
Air flow rate	m <sup>3</sup> /min		18
	l/sec		300
Life	h		5,000 (dust concentration 0.15 mg/m <sup>3</sup> )
Filter element			Mould-proof and antibacterial resin net
Number of sheets included			1
Mass (Weight)	kg		0.2

**Caution**

- Can be water-washed. Can be reused.



### 1.19 KAF551CA160 — Replacement Long-life Filter

KAF551CA160



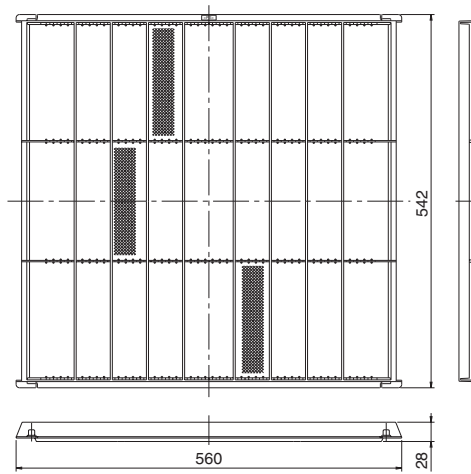
Item		Model	KAF551CA160
Initial pressure loss	Pa		4.9 or less
Final pressure loss	Pa		49 or less
Average efficiency	%		65 (gravity method)
Air flow rate	m <sup>3</sup> /min		18
	l/sec		300
Life	h		5,000 (dust concentration 0.15 mg/m <sup>3</sup> )
Filter element			Mould-proof resin net
Number of sheets included			1
Mass (Weight)	kg		0.4

**Caution**

- Can be water-washed. Can be reused.

**Dimensions**

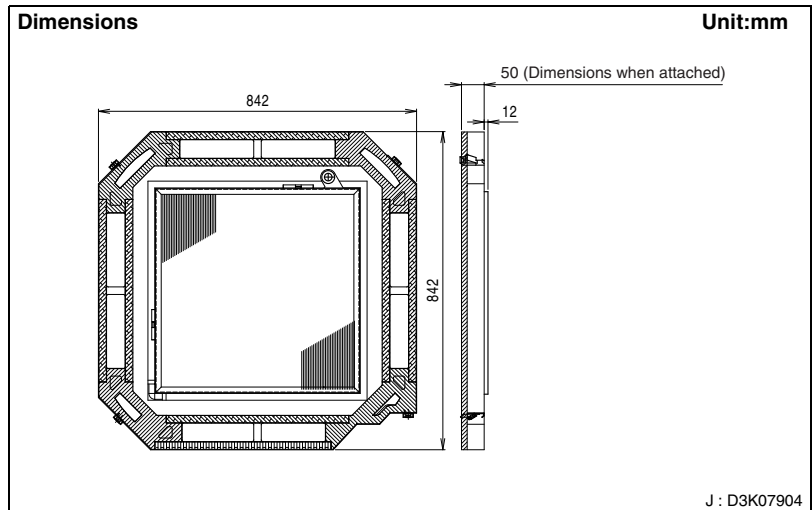
Unit:mm



JC : D3K3092

**3**  
1.19 KAF551CA160

## 1.20 KAFP55B160 — Ultra Long-life Filter Unit (Including Chamber)

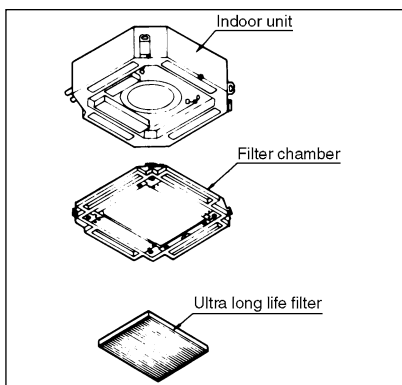


### Caution

- In order to mount a ultra long life filter unit, setting of the main unit of indoor unit should be made.
- Individual filter (KAFP55H160H) is available as an optional accessory.

Mounting locations	Filter cleaning period
Locations with much dust	Approximately every 5,000 hours
Locations with little dust (e.g. offices)	Approximately every 10,000 hours

Model		KAFP55B160
Item		
Material		Galvanized steel iron. Foam polystyrene.
Initial pressure loss	Pa	8 or less
Final pressure loss	Pa	49 or less
Average efficiency	%	50 (gravity method)
Air flow rate	m <sup>3</sup> /min	29.5
	l/sec	492
Life	h	5,000 (dust concentration 0.3 mg/m <sup>3</sup> )
Filter element		Polypropylene honeycomb (with mould-proof)
Number of sheets included		1
Accessories		Installation manual. Sealing pad : 2
Mass (Weight)	kg	6.4



Installation

**Caution** After thoroughly reading these "Safety precautions", properly perform the installation.

- For the installation parts, accessory parts and specified components must always be used.
- If the specified components are not used, the kit may fall or an air leak may occur.
- After the completion of installation, perform a test run to check that no abnormality is present.

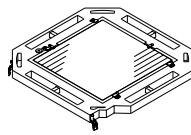

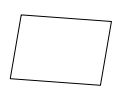
**Recommendations**

- This product can be mounted to a ceiling mounted cassette-type air conditioner <Round flow>.
- According to the table below, check the model name of the indoor unit main body, then mount the product.
- At the time of mounting, also refer to the installation manual for the indoor unit and to the one for the decoration panel.

**Recommendations**

The ultra-long life filter can be reused after cleaning. After the engineering works are completed, provide instructions to the customer about the filter cleaning interval and how to remove the filter.

**Parts content** Check the following parts.

Name	Ultra-long life filter unit	Sealing pad	Installation manual
Shape			
Number of pieces	1	2	1 (This document)

**Combination table**

Model name	Installable indoor unit model name / Panel model name	
KAFP55B160	SkyAir	FCQ71K/100K/125K/140KVEA
	VRV	FXFQ25/32/40/50/63/80/100/125PVE
Panel	BYCP125K-W1	

**1** Mounting of Ultra-Long Life Filter Unit

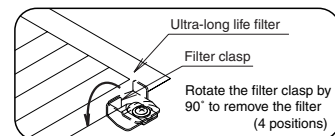
\* When the indoor unit main body is already installed, perform the following operations, complying with precautions below.  
 Shut off power supply before performing the operation.  
 Remove the decoration panel from the indoor unit main body.  
 (For details, refer to the installation manual attached to the decoration panel.)

\* When the indoor unit main body is newly installed

- Remove the ultra-long life filter from the ultra-long life filter unit. **(Figure 1)**
- Mount the ultra-long life filter unit to the indoor unit main body using the hooks (4 positions). **(Figure 2) to (Figure 4)**  
 For the fixing method of the hooks, refer to the figure to the right. Mount at 4 positions.

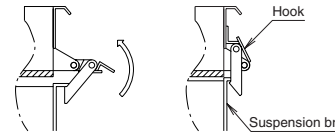
\* Mount so that the contours of the indoor unit main body and chamber match. **(Figure 3) (Figure 5)**

**Figure 1**



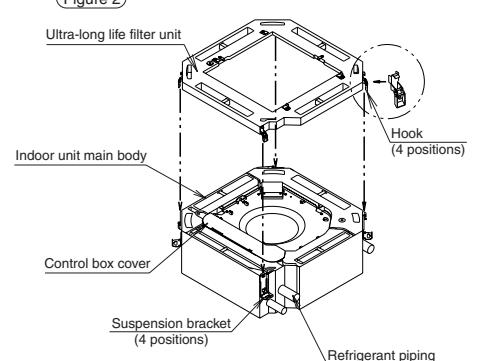
Ultra-long life filter  
Filter clasp  
Rotate the filter clasp by 90° to remove the filter (4 positions)

**Figure 3** Mounting status



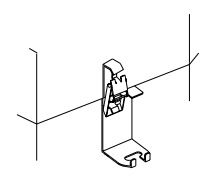
Hook  
Suspension bracket  
Fixing method of hooks

**Figure 2**

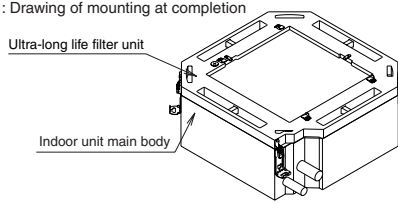


Ultra-long life filter unit  
Indoor unit main body  
Control box cover  
Suspension bracket (4 positions)  
Refrigerant piping  
Hook (4 positions)

**Figure 4** Status after mounting



**Figure 5**: Drawing of mounting at completion

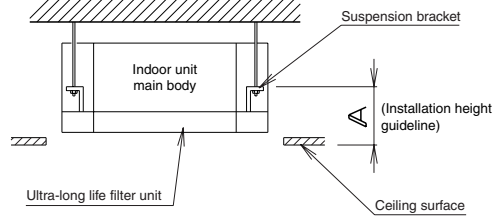


Ultra-long life filter unit  
Indoor unit main body

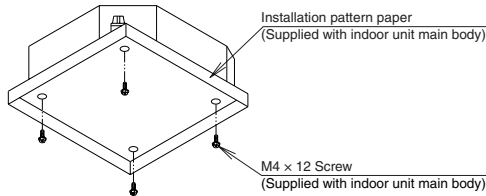
JC : 3K022852

**2** Installation of Indoor Unit Main Body and Ultra-Long Life Filter Unit

- Install the indoor unit main body and ultra-long life filter unit.  
At the time of installation, perform engineering work according to the installation manual attached to the air conditioner's main body. (For the installation height, refer to the figure to the right.)
- When mounting the ultra-long life filter unit to the existing indoor unit main body, change the installation height of the indoor unit main body to height **A** in the figure to the right.
- Mount the supplied installation pattern paper to the indoor unit by using screws to cure the indoor unit.  
(Refer to the installation manual of the indoor unit main body.)  
(Refer to the figure below.)



	<b>A</b> (mm)
BYCP125K-W1	185

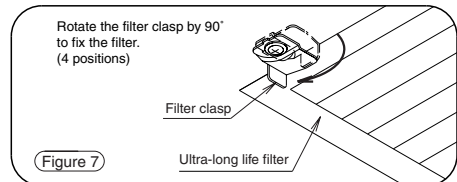
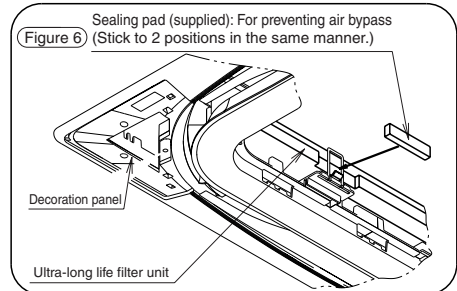
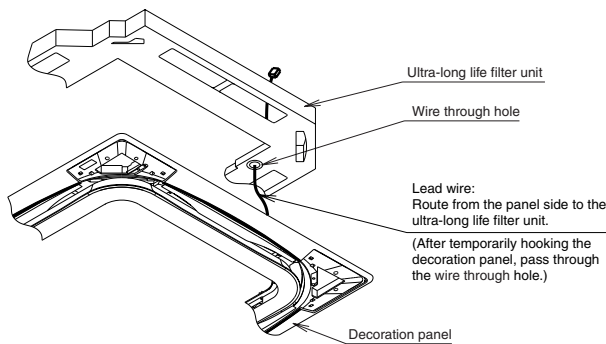


[Mounting of installation pattern paper]

- Complete all the refrigerant and drain piping work for the indoor unit main body.

**3** Mounting of Decoration Panel and Mounting of Ultra-Long Life Filter

- After temporarily hooking the decoration panel, pass the lead wire, which is coming out from the decoration panel, through the wire through hole of the ultra-long life filter unit.  
<Round flow> 1 swing motor lead wire
- Mount the decoration panel according to the installation manual attached to the decoration panel.



- Mounting of ultra-long life filter  
After the completion of wiring and sticking of sealing pad (2 positions), mount the ultra-long life filter. (Figure 6) (Figure 7)

With wireless unit

- Route the connector of the receiver lead wire through the wire through hole, then connect the connector on the indoor printed circuit board assembly.
- For details on the connection method, refer to the installation manual attached to the wireless remote control kit (sold separately).

**4** Preparation of Indoor Unit

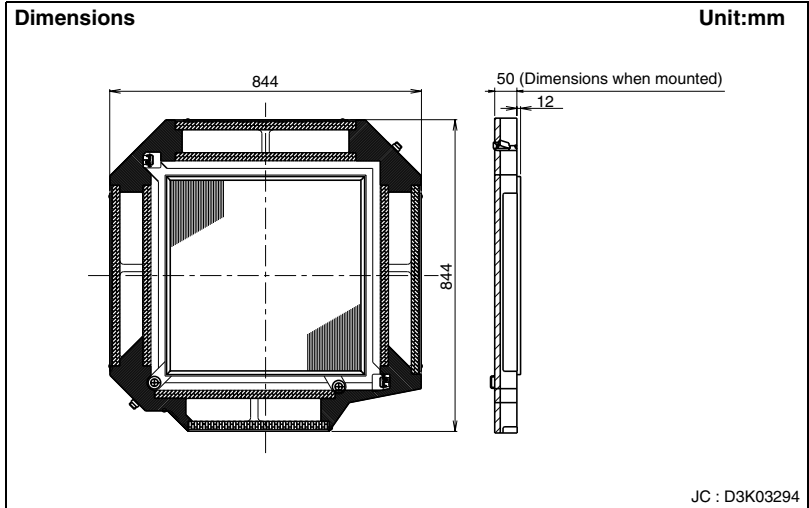
- With the mounting of a ultra-long life filter unit, setting the indoor unit main body is required.  
Using the field setting mode on the remote control, switch to the second code number shown in the table to the right.  
For the field setting mode, refer to "How to perform field setting" attached to the remote control.

Mode number	First code number	Second code Number	Filter sign display interval time
10 or 20	0	Where there is minimal fouling (Example: Office, etc.) 01	Approximately every 10,000 hours
		Where there is considerable fouling (Example: Pachinko parlor, etc.) 02	Approximately every 5,000 hours
	1	02	Initial setting for ultra-long life filter

JC : 3K022852



### 1.21 KAF55DA160 — Ultra Long-life Filter Unit (Including Chamber)

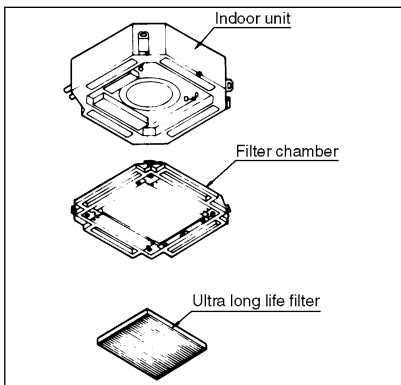


**Caution**

- In order to mount a ultra long life filter unit, setting of the main unit of indoor unit should be made.
- Individual filter (KAF55KA160H) is available as an optional accessory.

Model		KAF55DA160
<b>Item</b>		
Material		Galvanized steel iron. Foam polystyrene.
Initial pressure loss	Pa	8 or less
Final pressure loss	Pa	49 or less
Average efficiency	%	50 (gravity method)
Life	h	5,000 (dust concentration 0.3 mg/m <sup>3</sup> )
Filter element		Polypropylene honeycomb (with mould-proof)
Number of sheets included		1
Accessories		Installation manual.
Mass (Weight)	kg	4.7

Mounting locations	Filter cleaning period
Locations with much dust	Approximately every 5,000 hours
Locations with little dust (e.g. offices)	Approximately every 10,000 hours



Installation

**Caution**

Before starting the installation work, carefully read the following, safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or specified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnormality during the trial operation.

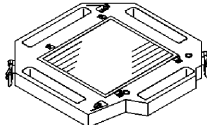

**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Notes**

Ultra-long life filter can be reused by cleaning. After installation, instruct filter cleaning period and remove to customers.

**Components** Check if following parts are included with your kit.

Name	Ultra-long Life Filter Unit	Installation manual
Shape		
Quantity	1 PC.	1 PC.

**Combination table**

Kit name	Indoor unit model that party crowded is possible	
KAF55DA160	VRV	FXF25·32·40·50·63·80·100·125LVE

**1 Preparation of indoor unit**



- When you install the Ultra-long life filter, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.


Mode No.	Setting switch No.	Setting position No.	Contents of setting
10 or 20	0	Less dusty place 01	Filter cleaning period : Every 10,000 hrs
		Dusty place 02	Filter cleaning period : Every 5,000 hrs
	1	02	Filter sign display: Ultra-long life filter



**2 Installation of Ultra-long life filter Unit**

1. Remove the decoration panel. (This is not required for the new installation)
  - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)

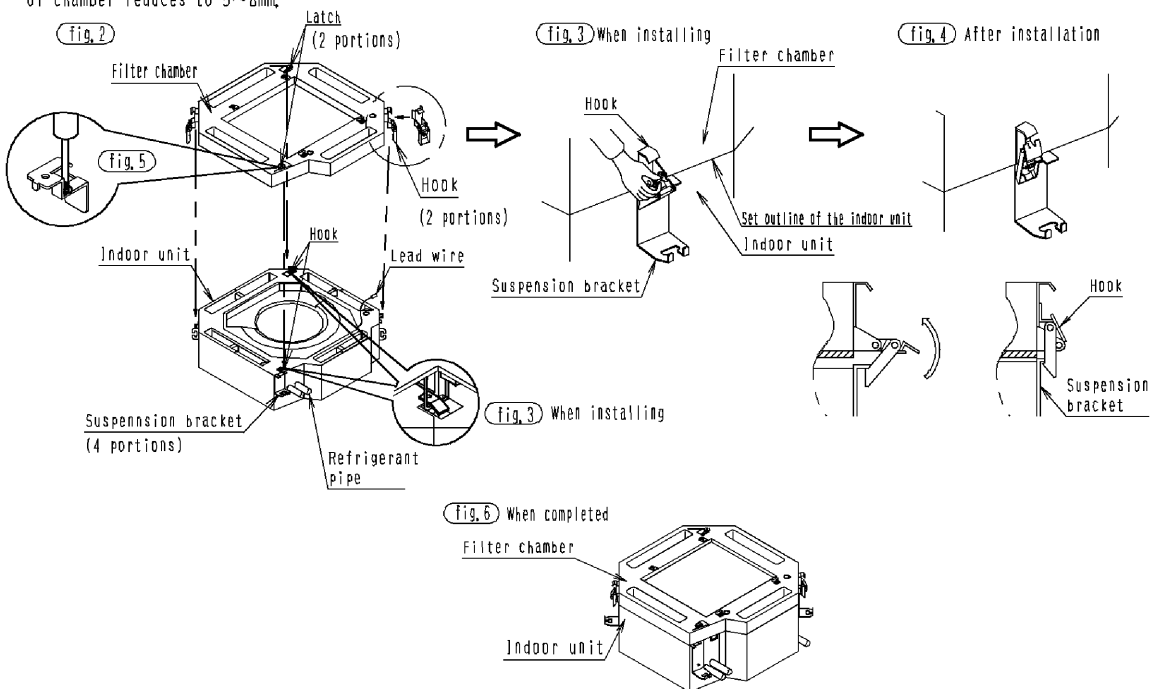
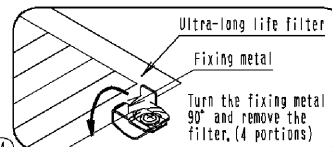
2. Remove the Ultra-long life filter. 

3. Temporarily install the filter chamber to the indoor unit by hanging the latch on the opposite side of the filter chamber to the hook of the indoor unit body. (2 portions)  
Temporarily hang the remaining 2 hooks of the filter chamber to the hooks on the sides of the indoor unit.  ~   
(When the indoor unit is already installed, hang the hook to the suspension bracket temporarily and fix the hook.)

\*Installation set outline of the indoor unit 

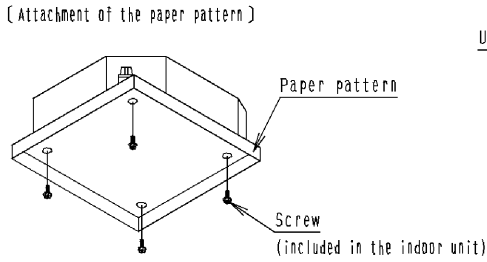
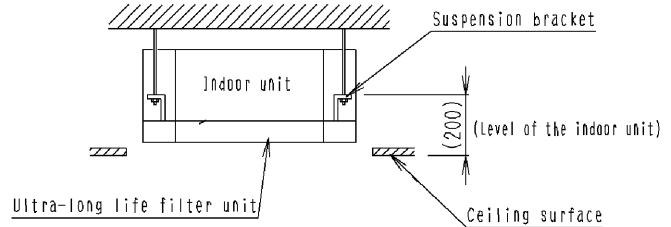
4. Tighten 2 hexahed screws located beneath the latches until the thickness of the sealing material    
of chamber reduces to 5~8mm.





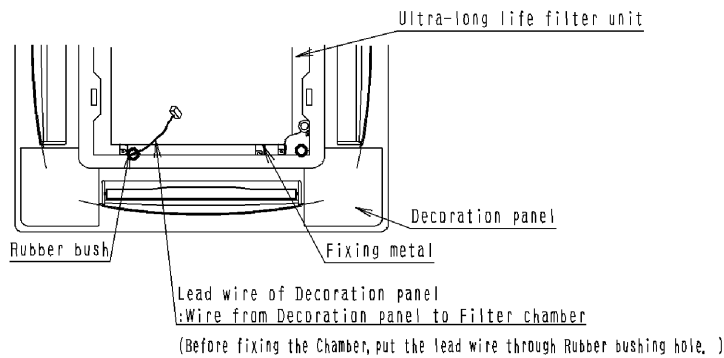
**3 Installation of the indoor unit and the Ultra-long life filter unit**

- Install the indoor unit and the Ultra-long life filter unit, Refer to the installation manual of the indoor unit. (For the height of the unit, refer to the drawing on the right.)
- Be complete installed refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt, [See below] (When the indoor unit is newly installed) (See below)
- In case of attaching the chamber after installed indoor unit, For the height of the unit, change the height shown on the right drawing.



**4 Installation of the Decoration panel and the Ultra-long life filter**

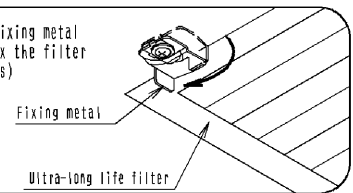
- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.



- Installation of the Ultra-long life filter After connecting, install the Filter chamber. (fig.7)

(fig.7)

Turn the fixing metal 90° and fix the filter (4 portions)



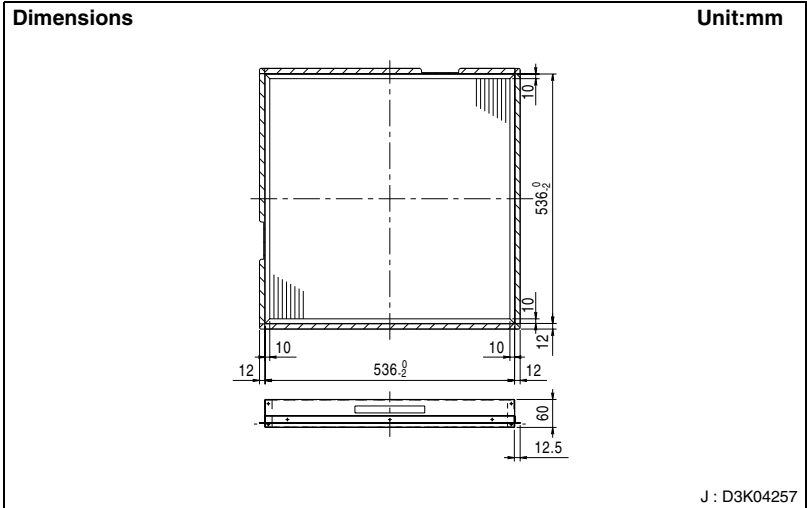
**(In case of the panel for Wireless remote controller)**

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

3K011147B

## 1.22 KAFP55H160H — Replacement Ultra Long-life Filter

KAFP55H160H



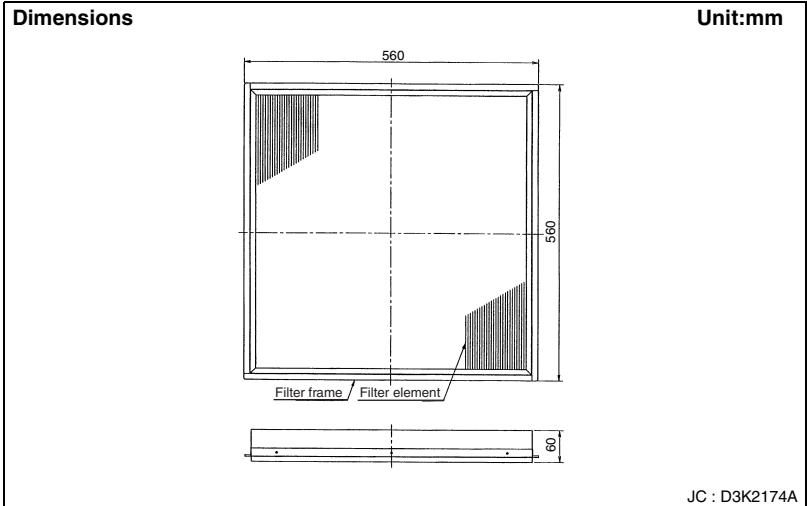
**Caution**

- Can be water-washed. Can be reused.
- The filter chamber (KDDFP55B160) is required when the ultra long life filter will be installed.

Model		KAFP55H160H
Item		
Initial pressure loss	Pa	8 or less
Final pressure loss	Pa	49 or less
Average efficiency	%	50 (gravity method)
Air flow rate	m <sup>3</sup> /min	29.5
	l/sec	492
Life	h	5,000 (dust concentration 0.3 mg/m <sup>3</sup> )
Filter element		Mould-proof resin net
Number of sheets included		1
Mass (Weight)	kg	3.4

### 1.23 KAF55KA160H — Replacement Ultra Long-life Filter

KAF55KA160H



**Caution**

- Can be water-washed. Can be reused.

Model		KAF55KA160H
Initial pressure loss	Pa	8 or less
Final pressure loss	Pa	49 or less
Average efficiency	%	50 (gravity method)
Air flow rate	m <sup>3</sup> /min	29.5
	l/sec	492
Life	h	5,000 (dust concentration 0.3 mg/m <sup>3</sup> )
Filter element		Mould-proof resin net
Number of sheets included		1
Mass (Weight)	kg	1.7

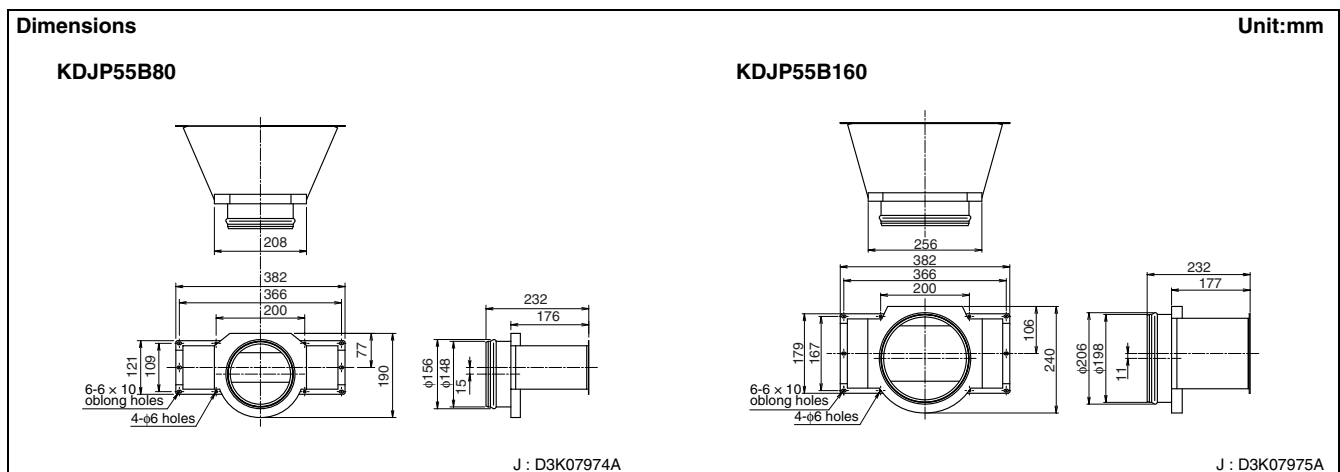
**3**  
1.23 KAF55KA160H

### 1.24 KDJP55B80 / KDJP55B160 — Branch Duct Chamber

Item	Model	KDJP55B80	KDJP55B160
Material		Hot-dip zinc-coated carbon steel sheet (with insulation)	
Accessories		Mounting screws. Blocking pad. Tape for fixing the blocking pad. Opening sealing material. Insulation material. Installation manual.	

**Caution**

1. When mounting, refer to the installation manuals for the indoor unit and the decoration panel.



Installation

Precautions					
<ul style="list-style-type: none"> <li>This product can be mounted to a ceiling mounted cassette-type air conditioner &lt;round flow&gt;.</li> <li>According to the table to the right, check the model name of the indoor unit, then mount the product.</li> <li>At the time of mounting, also refer to the installation manual for the indoor unit main body and to the one for the decoration panel.</li> <li>For the duct (field supplied) to be connected, those specified in the table to the right are recommended.</li> </ul>					
Parts content					
Check the following parts.					
Name	Main body insulator			Main body opening sealant	
Shape/Number	1	2	3	4	5A (Small) / 5B (Large)
Number of pieces	80 / 160	1	2	2	2 / 1
Name	Branch duct chamber	Mounting screw	Installation manual	Sealing material	Tape for fixing the sealing material
Shape/Number	6	7	8	9	10
Number of pieces	80 / 160	10	1	2	2

Combination table		
Model name	Installable indoor unit model name	
KDJP55B80	SkyAir	FCQ71KVEA
	VRV	FXFQ25/32/40/50/63/80PVE
KDJP55B160	SkyAir	FCQ100K/125K/140KVEA
	VRV	FXFQ100/125PVE

Recommended duct	
Branch duct chamber	Connecting duct kit name
KDJP55B80	K-FDK151D (1 m) or K-FDK152D (2 m) (Flexible duct: Nominal diameter of φ150)
KDJP55B160	K-FDK201D (1 m) or K-FDK202D (2 m) (Flexible duct: Nominal diameter of φ200)

1 Preparation Before Installation With this branch duct, an independent 4-way and simultaneous 2-branch drawing are also possible.

- With this branch duct chamber, the blow directions shown in the figure to the right can be selected. Select the blow direction that is most appropriate for the room shape and installation position. (Blow directions other than those in the figure to the right cannot be selected.)
- From the external static pressure/air volume characteristics (refer to the Engineering Data), select the duct length and air outlet.

**Precautions**

- Be sure to securely block the air outlet of the indoor unit main body to which the branch duct chamber is mounted. If the blocking is incomplete, water spraying or condensation may occur. Do not block the corner sections. (Refer to 4 Mounting of Sealing Material to Indoor Unit.)
- When mounting the branch duct chamber, be sure to perform field setting of the indoor unit main body. (Refer to 5 Field Setting.)

2 Mounting of Branch Duct Chamber

When an installation is performed after mounting the branch duct chamber to the indoor unit main body (at new installation), do not apply force to the branch duct chamber. (Deformation may occur.)

- Select the position where the branch duct chamber is mounted.
- Mount the branch duct chamber to the indoor unit according to the following procedure. ((Figure 2) is an example of the face 1 side.)
  - Along the slit, cut the side plate of the indoor unit to which the branch duct chamber is mounted. Then, cut the internal insulator along the groove. (Use nippers, etc., to cut the slit section, and cutter, etc., to cut the groove section.) (Figure 2)

**⚠** For the port opening operation, do not use a tool that produces chips, such as a saw. The drain system may become clogged, and a water leak may occur.

- Use the sealant for sticking so that the gaps between the side plate and internal insulator are filled around the full circumference. (Figure 3)
  - First, stick the main body's opening sealant 4 to left and right of the opening, and the main body's opening sealant 5A (5B) to the upper and lower sides of the opening.
  - At this time, fold the main body opening sealant towards the inside so that the gap between the side plate and internal insulator is no longer visible.

JC : 1P267944C

3) Mount the branch duct chamber [6]. (Figure 4)

Indoor unit  
Mount so that the flat face becomes the top plate side of the indoor unit.  
Branch duct chamber [6]  
Mounting screw, 10 pieces (M4x16) [7]  
Figure 4

(3) Stick the main body insulator to the indoor unit. (The figure is an example of the face ① side) (Figure 5)

Stick with the left sides of the main body insulators [1], [2], and [3] aligned.  
Main body insulator [1] Stick with the end folded.  
Main body insulator [2] Stick with the end folded. Create a slit to the wiring hole using a cutter, etc.  
Main body insulator [3] Stick with the end folded.  
Main body insulator [3]  
Be sure to stick the main body insulator from the top of the branch duct chamber flange (sheet metal section). Otherwise, condensation may occur.  
Figure 5

**3 Duct Connection** <<Duct: KDJP55B80 ... Nominal diameter of  $\phi$ 150  
KDJP55B160 ... Nominal diameter of  $\phi$ 200>>

1) Connect the duct to the outside of the branch duct chamber. (Figure 6)

- After the connection, wrap the connection area with tape (field supplied) to prevent an air leak.

• Apply insulation for all the ducts.

Precautions Do not perform duct manipulation described below.

a) Extreme bending  
b) Multiple bending  
c) Reduction of connecting duct diameter

Branch duct chamber  
Indoor unit main body  
Tape  
Wrap with tape to prevent an air leak.  
Duct of  $\phi$ 150 or  $\phi$ 200 (field supplied)  
Figure 6

\* 1. Beware that, in accordance with the local law, there may be cases where the use of a nonflammable duct is compulsory.  
2. When a duct goes through fire protection areas, including a fire proof structure, beware that, in accordance with the local law, it may be required to establish a damper or to build a structure that is not detrimental to fire protection.  
3. When penetrating a wooden construction wall with a metal duct, apply electrical insulation to the duct and wall.

**4 Mounting of Sealing Material to Indoor Unit** <<With the sealing material supplied in this kit, blocking of two openings can be performed.>>

• For the block position, refer to **1 Preparation Before Installation**, then determine the position. Always block the branch duct mounting surface.

Air outlet ②  
Air outlet ③  
Air outlet ①  
Air outlet ④  
Drain side  
Piping side  
3-way blow  
2-way blow  
Closed  
Closed  
Closed  
Closed

<Round flow>  
(1) Prepare the closure materials and the tape for fixing the closure materials to suit the outlets to be closed (① to ④) and apply them to the outlets.

Precautions When pasting the closure materials to the tape, be sure that the number printed on the closure materials are visible so that the closure materials can be identified easily.

1) Cut the closure materials ⑨ and the tape for fixing the closure materials ⑩ along the longitudinal perforation (--- Part). Use scissors to cut off the tape for fixing the closure materials.

Closure materials ⑨  
Tape for fixing the closure materials ⑩  
Cut off.

2) Cut the closure materials ⑨ and the tape for fixing the closure materials ⑩ along the latitudinal perforation (--- Part), leaving the number printed on the closure materials intact. (For the outlet ④, leave the number "四".) Use scissors to cut off the tape for fixing the closure materials.

3) Apply the closure materials ⑨ to the tape for fixing the closure materials ⑩.

Example) When blocking air outlet ② or ③

Sealing material ⑨  
Tape for fixing the sealing material ⑩  
Procedure 1 Cut off.  
Procedure 2 Remove the release paper.  
Procedure 3 Stick the sealing material so that it is at the center of the tape for fixing the sealing material.  
Release paper

\* Position the closure member at the center of the tape.

\* Cut the closure materials and the tape along the perforation, leaving the number of the outlet to close intact.

Precautions The sealing material has a directional property. Be sure to stick the sealing material to the tape for fixing the sealing material so that the printed number of the outlet to be blocked becomes visible.

(2) Stick the sealing material that was prepared in (1) to the air outlet of the indoor unit main body.

Indoor unit (Drain pan)  
Sealing material  
Air outlet

Precautions When pasting the closure materials to the outlet, be careful not to leave any gap or a rising part between the closure materials and the outlet. It may cause leaking air and condensation.

**5 Mounting of Decoration Panel** For safety, be sure to shut off power supply before starting the decoration panel mounting operation and connecting the connectors for swinging.

JC: 1P267944C

Refer to the installation manual attached to the decoration panel.  
After mounting the decoration panel, check that no gap is present between the decoration panel and the unit's main body.

**6 Field Setting**

• When mounting the branch duct chamber, setting the indoor unit main body is required. After all the engineering work is completed, perform setting together with field setting of the indoor unit. Using the field setting mode on the remote control, switch to the second code number shown in the table to the right. For the field setting mode, refer to "How to perform field setting" attached to the remote control.

Branch blow pattern	Mode number	First code number	Second code number
1-way branching, 3-direction blow	13 or 23	1	02
1-way branching and 2-way blow or 2-way branching and 2-way blow			03

JC : 1P269813A



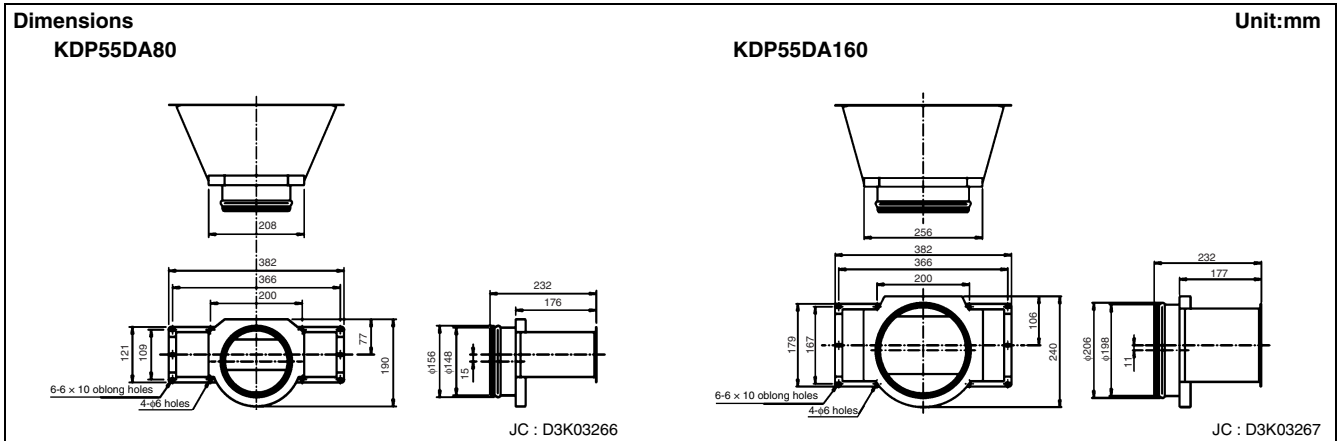
### 1.25 KDP55DA80 / KDP55DA160— Branch Duct Chamber

3  
1.25 KDP55DA80 / KDP55DA160

Item	Model	KDP55DA80	KDP55DA160
Material		Hot-dip zinc-coated carbon steel sheet (with insulation)	
Accessories		Mounting screws. Blocking pad. Tape for fixing the blocking pad. Opening sealing material. Insulation material. Moisture absorber for swing flap. Installation manual.	

**Caution**

- When mounting, refer to the installation manuals for the indoor unit and the decoration panel.



**Installation**

**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Combination table**

Kit name	Indoor unit model	that party crowd is possible
KDP55DA80	VRV	FXF25・32・40・50・63・80LVE
KDP55DA160	VRV	FXF100・125LVE

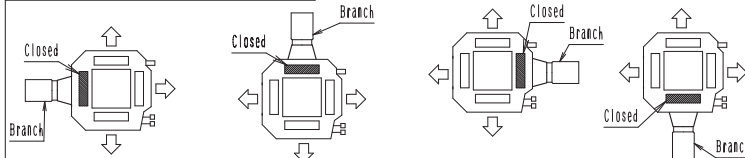
**Contents of kit** Check if the following parts are included with this kit.

NAME	Branch Duct Chamber	Screw	Installation Manual	Sealing Material	Tape for fixing the Sealing Material						
Shape・Number											
Q'ty	80 160	10 PCS,	1 PC,	2 PCS,	2 PCS,						
NAME	Indoor unit insulation material		Indoor unit opening seal material		Moisture Absorber for Swing Flap	Spacer	Spacer installation screw				
Shape・Number	①	②	③	④	⑤	⑥A	⑥B	⑦	⑧	⑨	
Q'ty	80 160	1 PC,	1 PC,	1 PC,	1 PC,	2 PCS, (Small)	2 PCS, (Large)	1 PC, (Large)	3 PCS, (5types)	1 PC,	1 PC,

**1 Pre-installation preparations** This branch duct can be used for 4 directions independently or 2 directions at once.

- You may choose the following outlet directions for this branch duct chamber. Select the outlet direction that best fits the shape of the room or the installation location. (Outlet directions other than the below cannot be selected)
- Select the duct length and outlet vent according to the external static sound pressure and fan strength characteristics (refer to the technical guide).

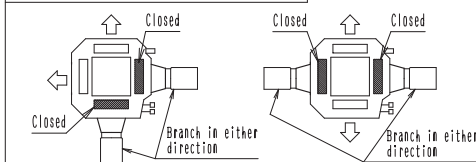
**1-direction branch, indoor unit 3-way air discharge**



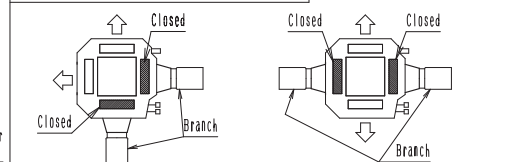
**Caution**

- Be sure to completely seal off the air outlet on the indoor unit to which the branch duct chamber is attached. If the seal is imperfect, this may cause water splattering and condensation. (Refer to ④ Installation of the sealing material to the indoor unit)
- When attaching the Branch Duct Chamber, be sure to perform the setting for indoor unit. (Refer to ⑤ Setting for indoor unit)

**1-direction branch, indoor unit 2-way air discharge**



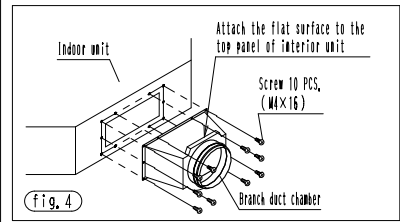
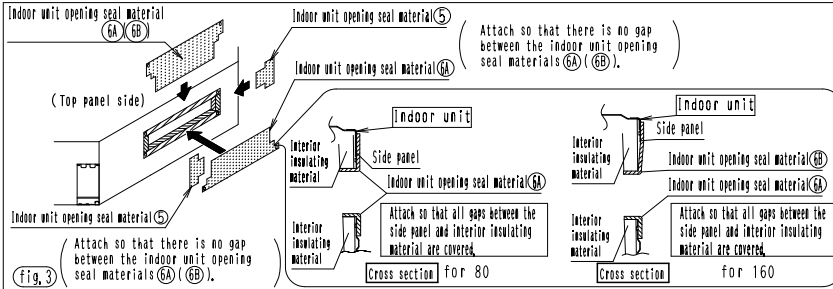
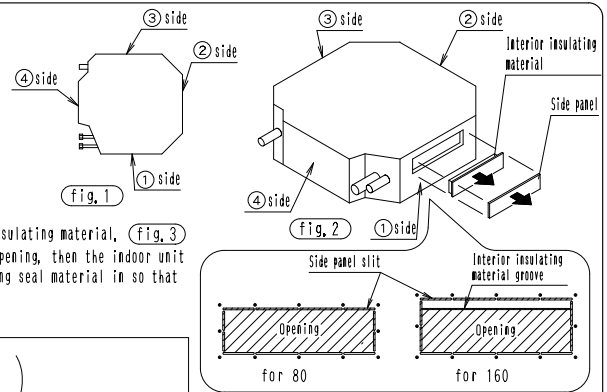
**2-direction branch, indoor unit 2-way air discharge**



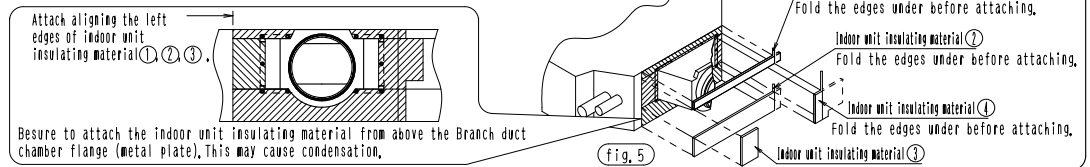
## 2 Installation of the Branch Duct Chamber

When installing the indoor unit after attaching the Branch Duct Chamber (for a new installation), avoid applying undue pressure on the Branch Duct Chamber. (This may damage it.)

- (1) Select the position to attach the Branch Duct Chamber. (fig. 1)
- (2) Attach the Branch duct chamber to the indoor unit following the steps below. (the fig. shows the ① side.)
  - 1) Cut off the indoor unit side panel to which the Branch duct chamber will be attached along the slit. Next, cut off the interior insulating material along the groove. (Cut off the slit part using nippers, and the groove part using cutters.) (fig. 2)
  - 2) Attach the sealing material so that it hides the gap between the side panel and interior insulating material. (fig. 3)
    - First attach the indoor unit opening seal material (small) ⑤ to right and left of the opening, then the indoor unit opening seal material (large) ⑥ above and below. At this time, fold the indoor unit opening seal material in so that the gap between the side panel and interior insulating material is hidden.
  - 3) Attach the Branch duct chamber. (fig. 4)



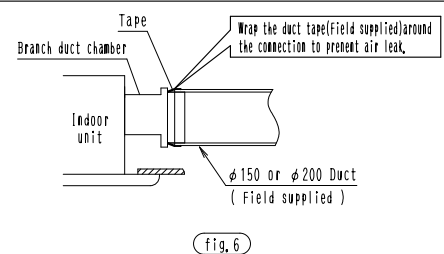
- (3) Attach the indoor unit insulating material to the indoor unit. (The fig. shows the ① side.) (fig. 5)



## 3 Duct connection

◀ Duct: KDP55DA80 ...diameter φ 150  
KDP55DA160 ...diameter φ 200 ▶

- 1) Attach the duct to the outside of the Branch duct chamber. (fig. 6)
  - Wrap the duct tape (Field supplied) around the connection to prevent air leak.
  - Insulate the duct to prevent condensate.
- 2) Do not perform the following duct work.

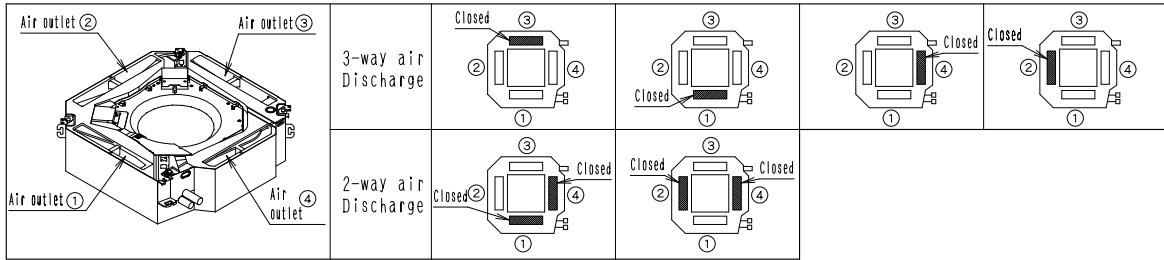


### Caution

- follow the local code or regulation to install the duct.
- In case that metal duct is penetrated through wooden wall, make sure the duct and the wall are electrically insulated.

**4** Installation of the sealing material to the indoor unit <The sealing material included in this kit is enough for two air outlets.>

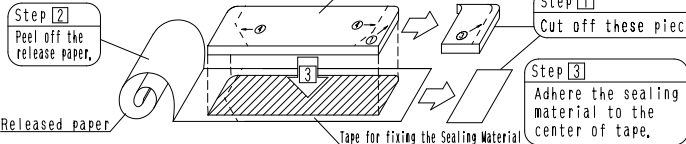
• Select which air outlet to be closed off referring to **1 Pre-installation preparations**. Be sure to close off the branch duct attachment side.



- (1) Prepare the sealing material and the tape for fixing the sealing material according to the air outlet No. To be closed.
  - Cut off the sealing material and the tape along the perforated lines (marked-----).
  - Adhere the sealing material to tape, (Make sure that the sealing material is placed at the center of the tape,)
- (2) Adhere the sealing material prepared according to the procedure(1) to the indoor unit air outlet.

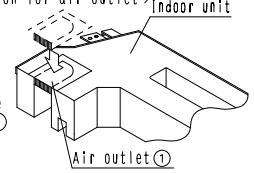
Example) For closing the air outlet ①

<How to prepare the sealing material>



<Installation for air outlet>

**Caution**  
The sealing material has directional characteristics. Make sure to adhere the sealing material fixing tape in the direction which the parts from ① to ④ can be seen as shown left.



\*When closing the air outlet ②, it is not required to work on the sealing material.

**5** Setting for indoor unit

- When you install the Branch duct chamber, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.

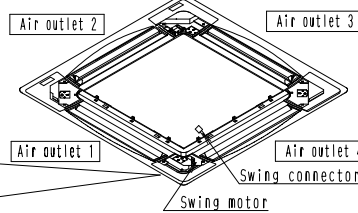
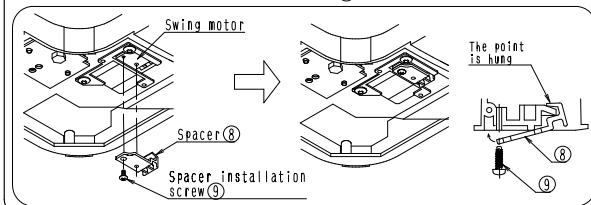
Branch and air discharge patterns	Mode No.	Setting switch No.	Setting position No.
1-direction branch, 3-way air Discharge	1 3 or 2 3	1	0 2
1-direction branch, 2-way air Discharge or 2-direction branch, 2-way air Discharge			0 3

**6** Installation of Decoration panel

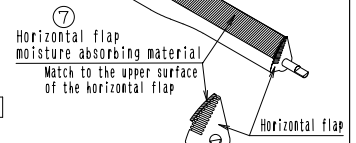
Please turn off the power supply for safety absolutely, before you do affixation of insulation and connected work of swing connector.

Refer to the installation manual for the decoration panel. After installing the decoration panel, make sure there are no gaps between it and the indoor unit.

- Please install spacer ⑧ on the swing motor with the spacer installation screw ⑨.



- Attach the horizontal flap moisture absorbing material to the horizontal flaps on the Air outlet as per the figure at bottom. (Attach, matching the color of the panel.)



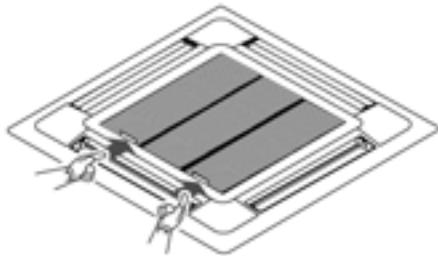
\*All air outlets which have not been closed off.

1P089650C

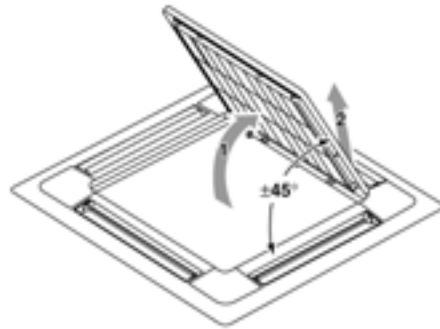
## 2. FXZQ

### 2.1 BYFQ60B8W1 — Decoration Panel

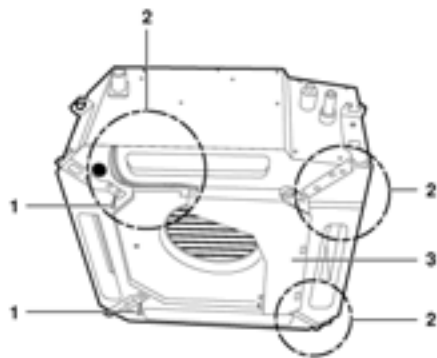
#### Installation



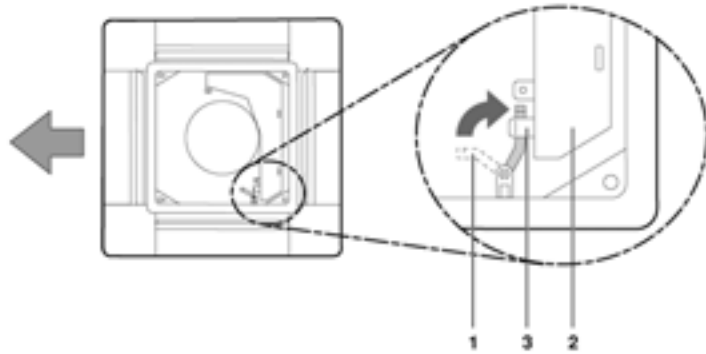
1



2

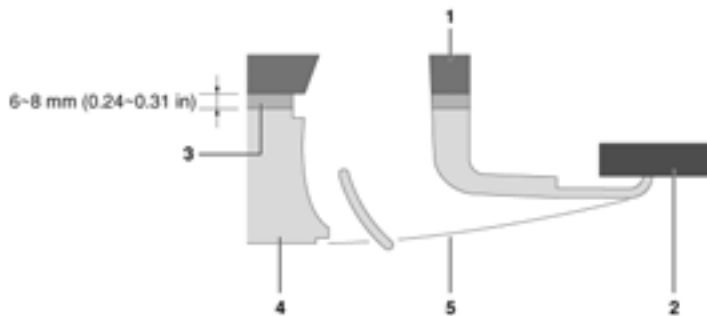


3



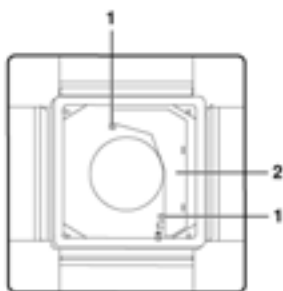
4

5

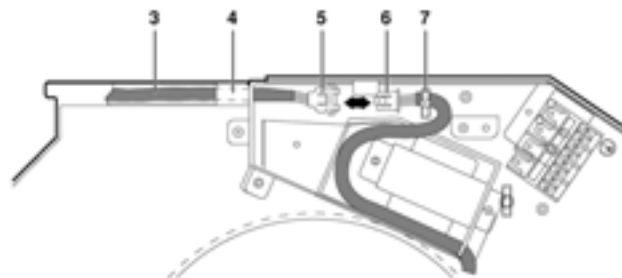


6

7



8



DAIKIN

BYFQ60B8W1  
BYFQ60B8W1U

Decoration panel

Installation manual



Read this manual attentively before installation. Do not throw it away. Keep it in your files for future reference.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin that are specifically designed for the use with the equipment and have them installed by a professional.

If unsure of installation procedures or use, always contact your dealer for advice and information.

## BEFORE INSTALLATION

- Leave the unit inside its packaging until you reach the installation site.
- Refer to the warning symbols on the unit.



### Rotary fan



Cut off the main power before opening the grille.

- Refer to the installation manual of the indoor unit for items not described in this manual.

### NOTE



### To the installer

Be sure to instruct the customer how to properly operate the system showing him or her the operation manual of the indoor unit.

## Accessories

Installation manual	
Screws (4x)	

## PREPARATION BEFORE INSTALLATION

For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase the optional blocking pad kit.

### Handling of the decoration panel

To prevent any damage to the decoration panel, take care of the following:

- Never place the panel with the front facing down.
- Never let the panel lean against a wall.
- Never put it down on a projecting object.
- Never touch or put pressure on the swing flap in order to prevent malfunction of the swing flap.

## Preparing the decoration panel for installation

- 1 Remove the suction grille from the decoration panel.
  - Push the suction grille lever in the direction of the arrow and open the grille. (See figure 1)
  - Detach the suction grille from the decoration panel by lifting the grille up approximately 45 degrees so the grille can be removed. (See figure 2)

## INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT

Refer to the installation manual of the indoor unit for details on installing the indoor unit.

- 1 Hold the decoration panel against the indoor unit by matching the piping side and drain side marks on the decoration panel with the position of the piping section and drain section of the indoor unit.
- 2 Install the decoration panel.
  - 1 Make sure that the swing flap motor lead wire does not come out of the groove for routing the wire inside the indoor unit (3 locations). If it has, put it back in. (Connecting the decoration panel with the wire out of the groove may cause water leakage.)
  - 2 Provisionally tighten the 2 supplied screws approximately 5 mm (0.2 in) into the indoor unit at the side opposite the switch box. (See figure 3)

- 1 Supplied screws
- 2 Groove for wire routing
- 3 Switch box

- 3 Slide the panel in the direction of the arrow, matching the 2 attachment holes (∩) over the provisionally tightened screws. (See figure 4)
- 4 Turn the decoration panel lever at the side of the indoor unit switch box over the hook located on that switch box. (See figure 5)

- 1 Lever
- 2 Switch box
- 3 Hook

- 5 Attach the remaining screws and tighten all 4 screws until the thickness of the sealing material between the decoration panel and the indoor unit is reduced to 6~8 mm (0.24~0.31 in). (See figure 6)

- 1 Indoor unit
- 2 Ceiling
- 3 Sealing material
- 4 Decoration panel
- 5 Air outlet

### Precautions

- Improper tightening of the screws (see figure 7) may cause air to leak into the unit and air to escape between the ceiling and the decoration panel (1), resulting in contamination (2) and dew formation (3).
- If there is a gap remaining between the ceiling and the decoration panel after tightening the screws, re-adjust the indoor unit body height.

### 3 Wiring of the decoration panel (See figure 8)

- 1 Screws (2)
- 2 Switch box
- 3 Swing flap motor lead wire
- 4 Hang the swing flap motor lead wire on this tab
- 5 Connector of the decoration panel swing flap motor
- 6 Connector of the indoor unit
- 7 Clamp  
Pass the swing flap motor lead wire through the clamp as shown. After connection, store the connector inside the switch box.

- 1 Remove the switch box cover after making sure that the power to the unit is off.
- 2 Connect the connectors of the swing flap motor lead wire.
- 3 Put the switch box cover back in place and fix it with the 2 screws again.



- If the connectors are not connected properly, the swing flap will not work.
- Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel.

## INSTALLATION OF THE SUCTION GRILLE

Install the suction grille by reversing the procedure shown in "Preparing the decoration panel for installation" on page 1.

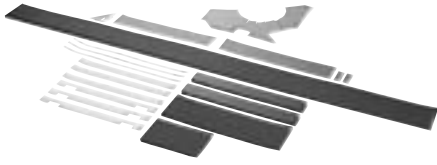
- The suction grille may be installed in 4 directions by simply turning it 90 degrees.
- Change the direction when adjusting the direction of the suction grille of multiple units or to comply with the demands of the customer.

### NOTE



Be careful not to get the swing flap motor lead wire get caught when installing the suction grille.

## 2.2 KDBH44BA60 — Sealing Material of Air Discharge Outlet



### Component

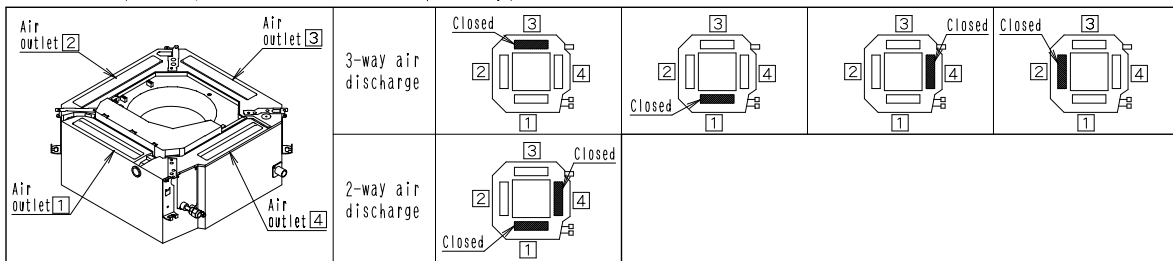
Name	Sealing material	Tape for fixing the sealing material	Insulation for side plate			Moisture absorber for bell-mouth
Quantity	2 pieces	2 pieces	1 piece	1 piece	1 piece	1 piece
Shape	①	②	③-1	③-2	③-3	④
Name	Moisture absorber for swing flap		Moisture absorber for panel edge	Moisture absorber for attached point	Moisture absorber for flesh air intake	
Quantity	3 pieces	3 pieces	3 pieces	1 piece	2 pieces	
Shape	⑤	⑥	⑦	⑧	⑨	

### ① The direction of air discharge and the positioning of sealing material

(1) Selection of the air outlet

- Select the direction of air discharge from the following table according to the location of the indoor unit. Refer to **② Setting for indoor unit** for setting position number.
- Refer to the installation manual attached to the indoor unit for selection of installation location.

**Caution** Never select the direction of air discharge other than the following pattern. (You may have a condensation problem.)

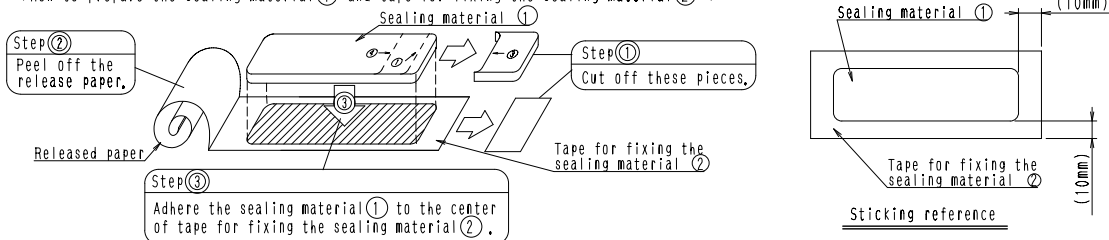


(2) Prepare the sealing material ① and the tape for fixing the sealing material ② according to the air outlet No. to be closed.

- Cut off the sealing material ① and the tape for fixing the sealing material ② along the perforated lines (marked ---).
- Adhere the sealing material ① to tape for fixing the sealing material ②. (Make sure that the sealing material ① is placed at the center of the tape for fixing the sealing material ②.)

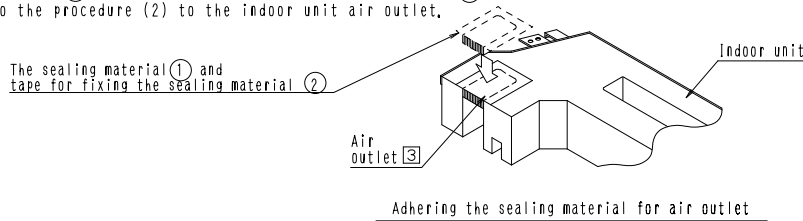
Example ) For closing the air outlet ③

< How to prepare the sealing material ① and tape for fixing the sealing material ② >



\*When closing the air outlet ②, it is not required to cut off the sealing material ① and tape for fixing the sealing material ②.

- (3) Adhere the sealing material ① and tape for fixing the sealing material ② prepared according to the procedure (2) to the indoor unit air outlet.



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## 2 Setting for indoor unit

It is required to make a field setting from the remote controller according to how the indoor units are installed. The direction of air discharge must also be set by the remote controller.

- The 3 different kinds of setting such as "Mode number", "The setting switch number" and "The setting position number" must be made by the remote controller.
- Refer to the item of "Field setting" in the operation manual of the remote controller for the setting procedure. Setting according to number of use of the air discharge. Check the setting position number corresponding to the direction of air discharge in a table, below.

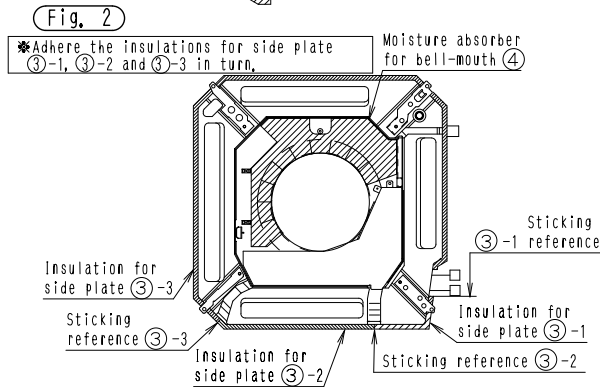
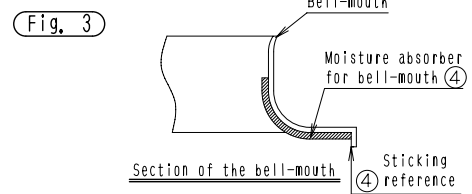
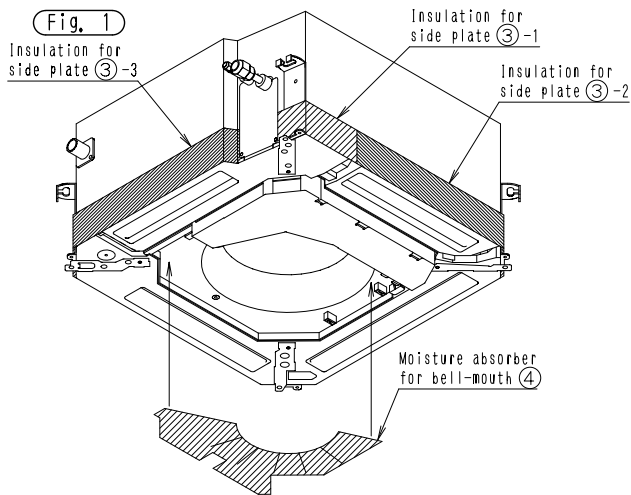
(Content of setting)

(Number of use of air outlets)	Mode number	The setting switch number	The setting position number
3-way air discharge	13(23)	1	02
2-way air discharge			03

## 3 Installation of the insulation

Please turn off the power supply for safety absolutely, before you do installation of the decoration panel and affixation of insulation and connected work of swing connector.

- (1) Adhere the insulations for side plate ③ in position, referring (Fig.1) (Fig.2).
- (2) Adhere the moisture absorber for bell-mouth ④ on the inner surface of the bell-mouth. See (Fig.1) (Fig.2) (Fig.3).



1P109292B



- (3) Confirm the air outlet and NO, not to be closed on the panel, See (Fig.4).
- (4) Adhere the moisture absorbers for swing flap (5) (6) aligning with the upper edge of the swing flap on the air outlet. And, adhere the moisture absorbers for panel edge (7) with the panel edge on the air outlet, See (Fig.5).
- (5) Adhere the moisture absorber for attached point (8) with the attached point to indoor unit between the air outlet (2) and (3). And, adhere the moisture absorbers for flesh air intake (9) with the flesh air intake hole, See (Fig.6).

Fig. 4

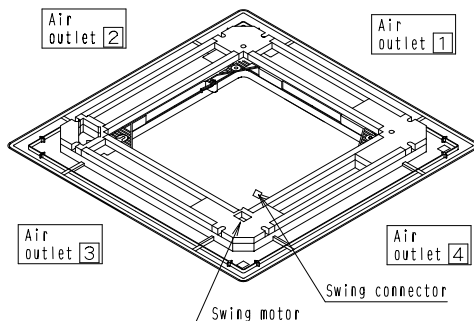


Fig. 5

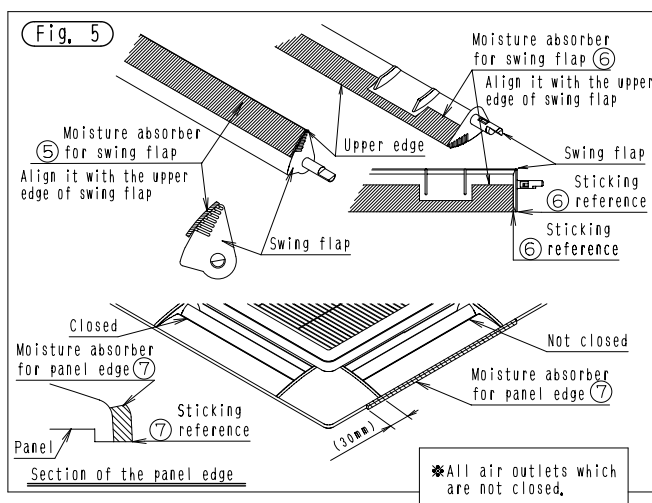
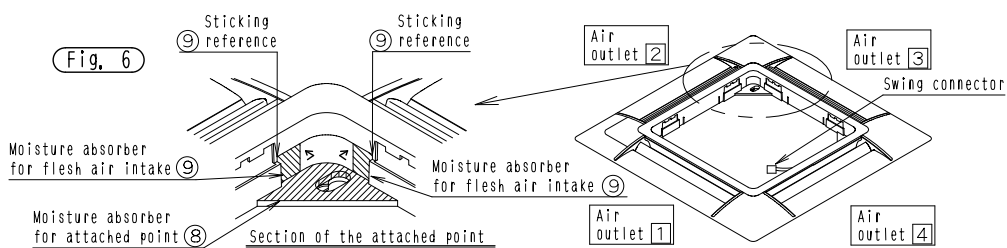
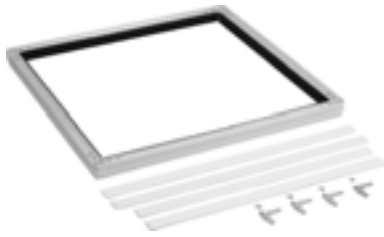


Fig. 6



1P109292B

### 2.3 KDBQ44BA60A — Panel Spacer



Model		KDBQ44BA60A
Item		
Applicable decoration panel		BYFQ60B8W1
Exterior		White
Material		Outside frame: Resin Insulation: Foam polyethylene
Component Parts		Panel spacer. Insulation. Sealant. Mounting screws. Installation manual.
Mass (Weight)	kg	1.5

- Using the panel spacer in areas of the ceiling with limited space makes it possible to install the air conditioner.
- Hides the gap between the decoration panel and the ceiling.

**Dimensions**

**Installation**

**Unit:mm**

**FXZQ + KDBQ44BA60A**

**Unit:mm**

3	PANEL SPACER	
2	DECORATION PANEL	
1	INDOOR UNIT	
ITEM	NAME	REMARK

1.5 DIMENSION BETWEEN THE BOTTOM SURFACE OF INDOOR UNIT AND THE SURFACE OF CEILING

40 THICKNESS OF PANEL SPACER

3D041038

Installation

Daikin Air Conditioners Panel Spacer Installation manual

KDBQ44BA60A      Caution : Before installation, read this safety instruction,      1P107764-1C

Combination table

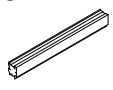
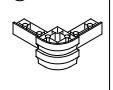
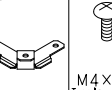

Panel spacer	KDBQ44BA60A
Decoration panel	BYFQ60B8W1

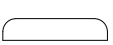
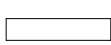
Caution

- When the Panel Spacer is installed, it is not possible to have 2-way air outlet.
- Refer to the installation manual for both indoor unit and the Panel spacer for its installation.

Contents of kit

Check if following parts are included with your kit,

Name	Panel spacer frame	Resin corner part	Fixing metal	Screw
Quantity	4 PCS,	4 PCS,	4 PCS,	28 PCS,
Shape • number	① 	② 	③ 	④  M4×12 Tapping screw (Class 2)

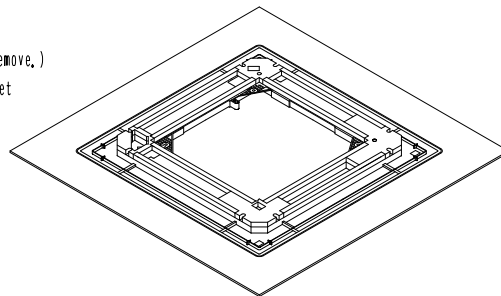
Name	Sealing material
Quantity	2 PCS,
Shape • number	⑤  ⑥ 

1 Preparation of the decoration panel

- Handle the decoration panel with care,

Never place the panel face down, or lean the panel against wall or place on the projective object.  
(It causes the dent or damage of the surface of the panel or damage of swing motor.)

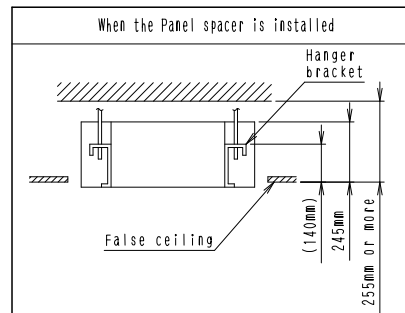
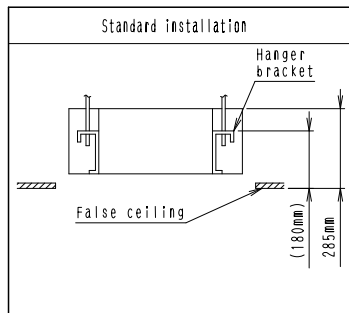
- (1) Remove the suction grill from the decoration panel.  
( Refer to the installation manual of the decoration panel how to remove, )
- (2) Place the panel face down on the corrugated board or the vinyl sheet to protect the surface of the panel,



2 Installation of the indoor unit

Adjust the height of the indoor unit,

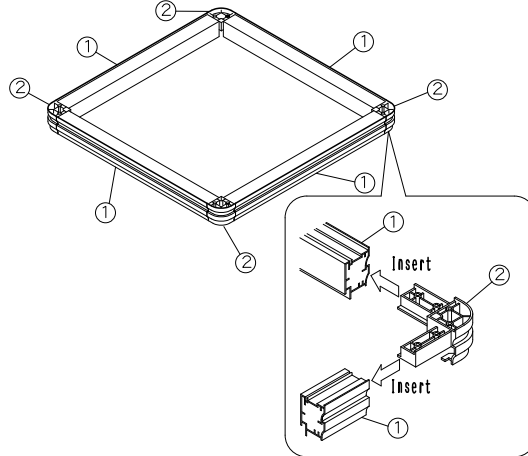
Be sure the piping will not contact with the ceiling joist etc, after adjusting the height,



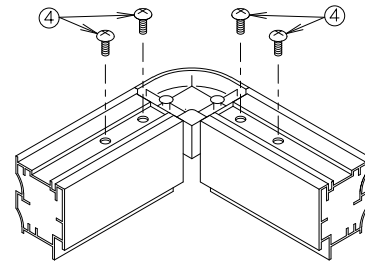
C : 1P107764C

**3 Assembly of panel spacer**

(1) Assemble the panel spacer frame ① and the plastic corner joint ② temporarily.



(2) Fix with the screws ④ from the top, (4 screws in each corner)

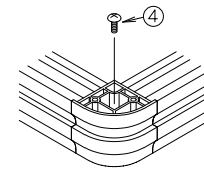
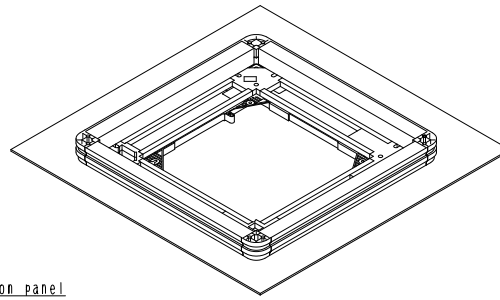
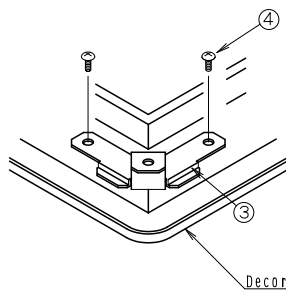


**4 Fixing to the decoration panel**

(1) Set the fixing metal ③ on each corner with screws ④.

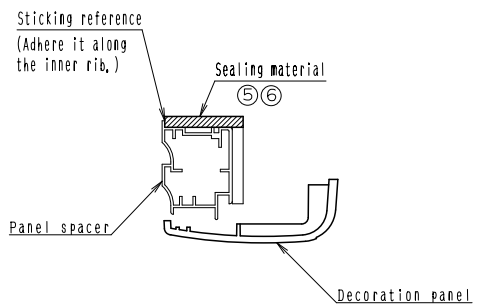
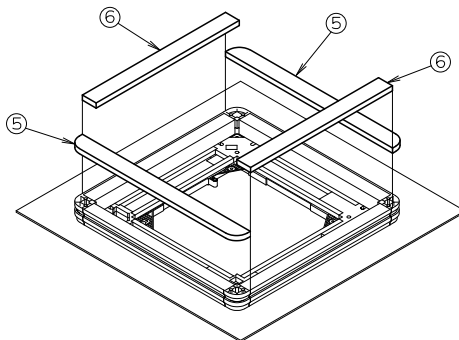
(2) Place the panel spacer assembled in item ③ Assembly of panel spacer of the above on the outer frame of the decoration panel.

(3) Fix the panel spacer to the fixing metal ③ with screws ④ (4 portions).



**5 Adhesion of the sealing material**

Adhere the sealing material ⑤ ⑥ on the upper face of the panel spacer in the order of ⑤ and ⑥.



**6 Installation of the decoration panel**

Install the decoration panel to the indoor unit according to the installation manual of decoration panel.

The panel spacer is not firmly fixed to the decoration panel, so that never hold the panel spacer directly or lean the decoration panel extremely.

## 2.4 KDDQ44XA60 — Fresh Air Intake Kit (Direct Installation Type)

### Installation

Daikin Air Conditioners Fresh Air Intake Kit (Duct Flange) Installation manual

KDDQ44XA60

Caution: Before installation, read this safety instruction.






**Remarks:**

1. This kit can be installed to the Ceiling mounted cassette type (Multi-flow).
2. When installing this kit, duct (Nominal dia. :  $\phi 100$ ) is required on site.

- In case that metal duct is penetrated through wooden walls, make sure the duct and the wall electrically insulated.
- Install the duct inclined downwardly to outdoor so that the rain may not get into the duct, (Inclination 1/100 to 1/50)
- To avoid birds, small animals or insects getting inside the duct, make sure to install net where it contacts the outside air.

**Contents**

Prior to installation, make sure you have the complete kit of parts.

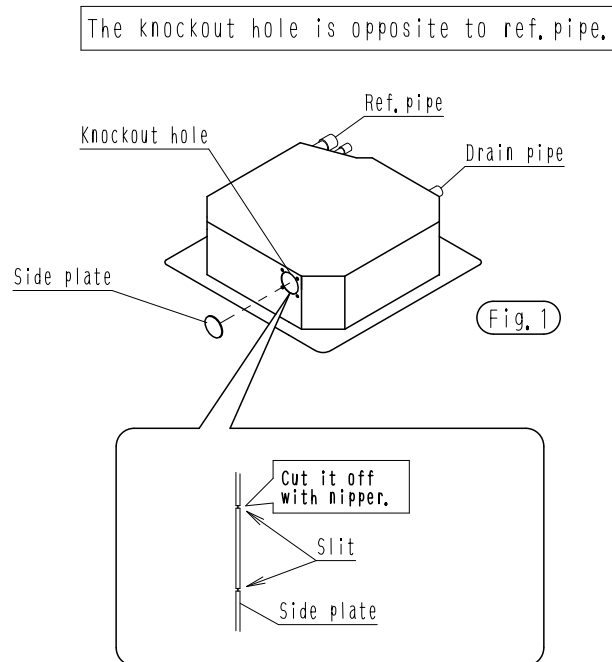
Name	① Duct flange	② Screws	③ Insulation for duct flange	④ Insulation for opening of unit	⑤ Installation manual
Q'ty	1 piece	4 pieces	1 piece	1 piece	1 piece
Shape		 M4×12			

**Necessary tools**

Philips head screw driver, nipper, cutter etc.

### 1 Installation procedures of duct flange

1. Cut off the knockout hole on the side plate. (Fig.1)



2P108307A

2. Adhere the insulation ④ for opening of unit to the opening. (Fig. 2)

Put the insulation ④ to be suitable for the hole of the insulation ④ and hole of the indoor unit.  
However, put the insulation ④ so as not to conceal the screw hole of the indoor unit.

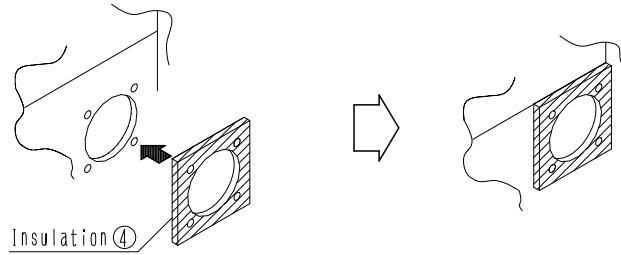


Fig. 2

3. Install the duct flange ① with screws ② (M4×12, 4 screws) to the opening and adhere the insulation ③ (Fig. 3)

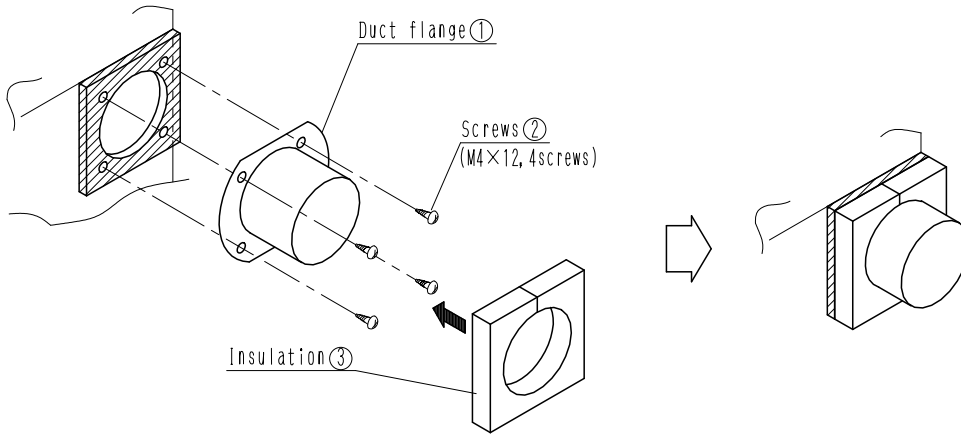


Fig. 3

**2** Installation procedures of duct <Nominal diameter of duct:  $\phi$  100>

1. Connect the duct to the duct flange. (Flange fits inside the duct.) (Fig. 4)
2. After connection, wrap vinyl tape (field supply) around the duct connection to prevent air leak.

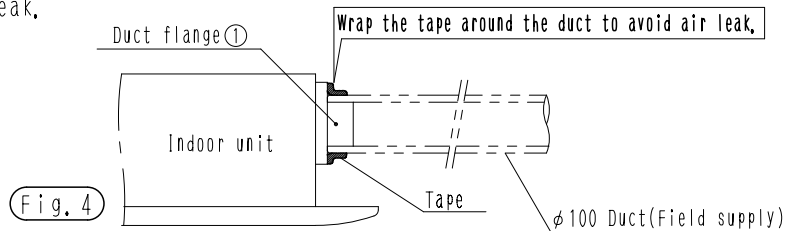


Fig. 4

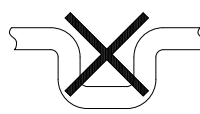
**Precaution**

- All ducts must be completely insulated.
- Do not do the followings when installing duct.

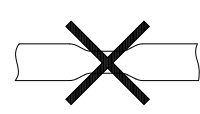
- A) To bend the duct excessively    B) To bend the duct too many times    C) To reduce the duct diameter



WRONG

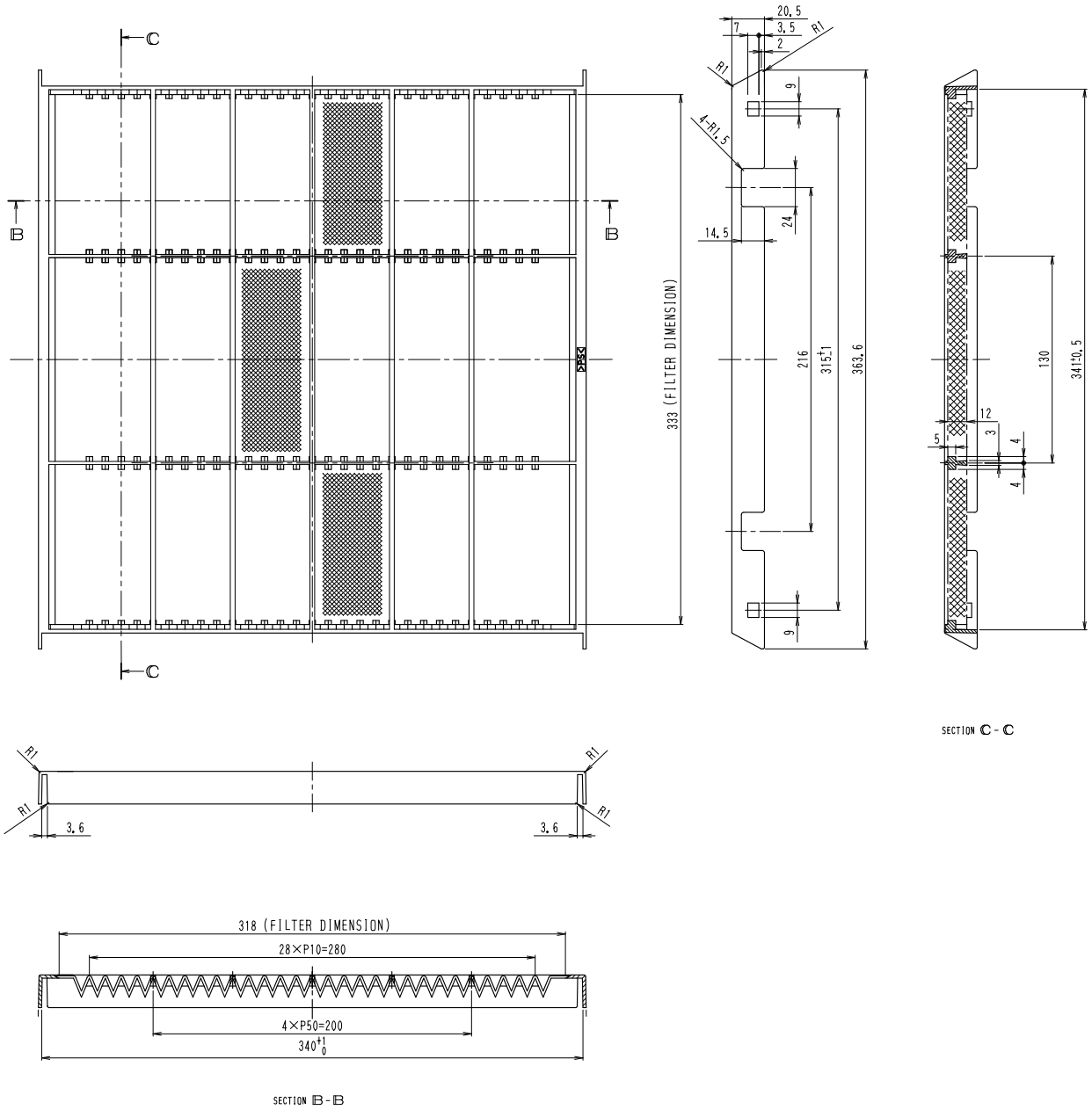


WRONG



WRONG

## 2.5 KAFQ441BA60 — Replacement Long-life Filter



**3**  
2.5 KAFQ441BA60

2P100214B

### 3. FXC (Q)

## - Ceiling Mounted Cassette Type (Double Flow) -

### 3.1 BYBC32-50-63-125G- W1 — Decoration Panel

#### BEFORE INSTALLATION

##### PRECAUTIONS

1. Refer also to the installation manual attached to the indoor unit.
2. Handling of decoration panels.
  - Never place the panel facing down nor lean it against a wall nor leave it on a projecting object.
  - (Otherwise the panel surface may be scratched.)
  - Never touch or put pressure on the swing flap.
  - (The swing flap may malfunction.)

##### ACCESSORIES

Panel fixing screw (M5x40)



BYBC32-50-63G-W1.....4pcs.  
BYBC125G-W1.....6pcs..

##### NOTE TO INSTALLER

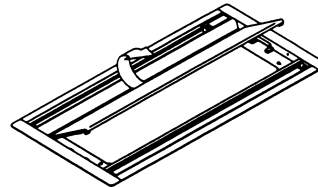
Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

#### PREPARATION OF DECORATION PANEL.

- Remove the suction grille and the cushion that is taped on the end of the swing flap.
  - Remove the suction grille from the decoration panel.
- (1) Hold up one side of the suction grille and hold down the other side. Slide the suction grille in the direction of arrow.
  - (2) Unhook the held-down side of the suction grille.



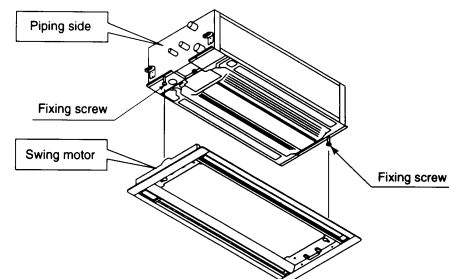
- (3) Open the suction grille (by about 45°) and unhook its other side.



#### INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT BODY

⟨Refer to the installation manual attached to the indoor unit for the installation of the indoor unit.⟩

- Set the decoration panel temporarily.
- (1) Temporarily tighten the two decoration panel fixing screws in position in the indoor unit. See the figure below. (Turn in the screws by 10 mm or so.)
  - (2) Place the decoration panel on the indoor unit with the swing motor at the piping side.
  - (3) Hook the openings of the decoration panel to the above half-tightened fixing screws. (Preferably hook first the opening that is opposite the piping side.)

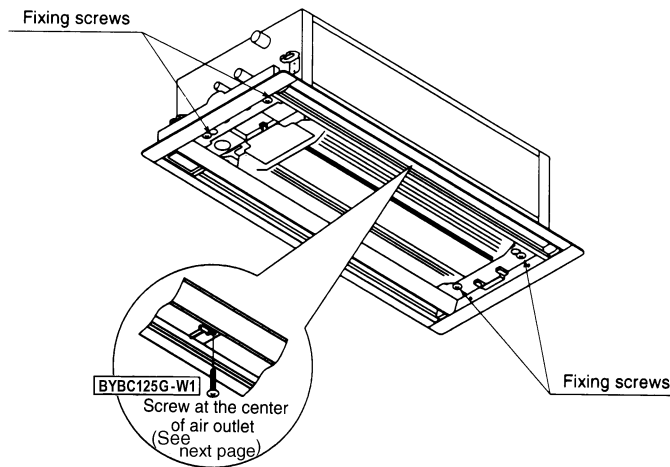


C: 3PA63729-3R



• Fixing the decoration panel.

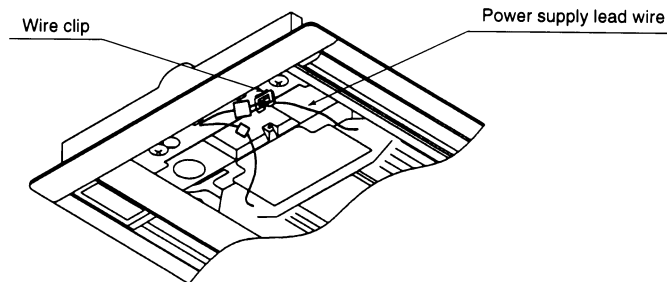
- (4) Tighten further the above two decoration panel fixing screw. And tighten two other decoration panel fixing screws diagonally.  
 (5) Tighten up all the four screws until there is no gap between the decoration panel and the ceiling.



• Make wiring of the decoration panel.

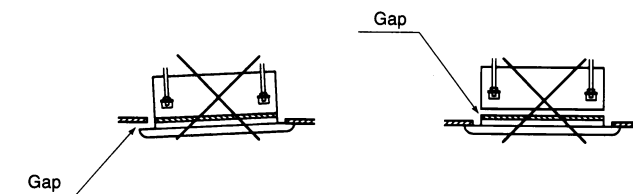
- (6) Connect the two connectors of the swing motor lead wire that is laid along the decoration panel. Pass the power supply lead wire through the wire clip.

Be sure to couple these connectors securely. Otherwise the malfunction display (A7) appears on the remote controller.



**[ PRECAUTION ]**

A gap between the decoration panel and the ceiling, or between the decoration panel and the indoor unit, may cause dew condensation and stain the ceiling. If any gap is found, readjust the indoor unit height to close the gap.

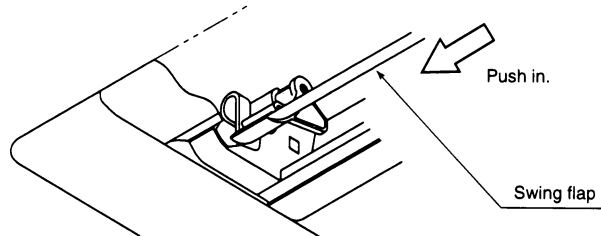


**MODEL BYBC125G-W1**

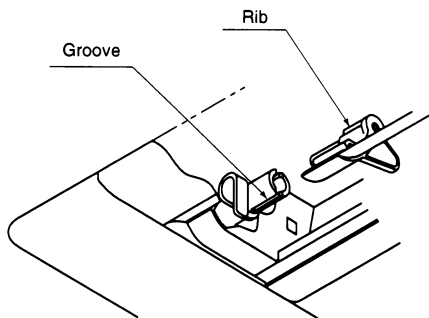
On Model BYBC125G-W1, more decoration panel fixing screws can also be applied at two points of the air outlet center. (Use these screws if a gap is produced lengthwise near the center.)

To apply the screws, remove the swing flap. Take the following steps.

- ① Remove the swing flap.  
Make sure the swing flap is in the horizontal flow position. Push the flap toward the piping side, and the opposite-side and center bearings will come off position. (The swing flap has been factory-set for the horizontal flow. If not in this position, get the indoor unit ready to run and readjust the swing flap angle with the remote controller.)



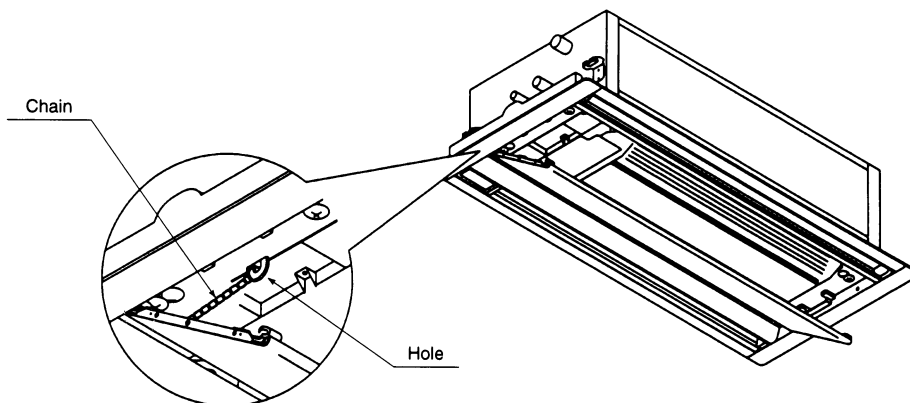
- ② Apply the decoration panel fixing screws at the center of the air outlet. (See the figure on the preceding page.)
- ③ Place the swing flap back into position.  
Take the reverse steps. Finally make sure that the rib of the swing flap shaft at the piping side fits tight in the decoration panel's groove, and that the opposite-side and center bearings are tight in place.



In removing and placing back the swing flap, be careful not to damage the insulation atop both ends of the flap.

**INSTALLATION OF SUCTION GRILLE**

- (1) Hold the suction grille tilted by 45° or so and hook it to the decoration panel pin. (No direction is specified.)
- (2) Hook the anti-fall chains at both sides of the suction grille to the decoration panel holes.
- (3) Close the suction grille in the reverse order. Now the decoration panel is ready to use.



C : 3PA63729-3R

### 3.2 KAFJ532G36-56-80-160 / KAFJ533G36-56-80-160 — High-Efficiency Filter

KAFJ532G56



- Cannot be water-washed for reuse.
- The filter chamber (KDDFJ53G36 · 56 · 80 · 160) is required when the high efficiency filter will be installed.

**Dimensions**

**Unit:mm**

unit:(mm)

Model	A
KAFJ532G36	487
KAFJ532G56	702
KAFJ532G80	887
KAFJ532G160	687
KAFJ533G36	487
KAFJ533G56	702
KAFJ533G80	887
KAFJ533G160	687

J : D3K1637C  
J : D3K1638B  
J : D3K1639C

#### Installation

**Caution**

- For the installation of this kit, the filter chamber is also required. Select the matching filter chamber from the following table.

High efficiency filter		Filter chamber
65%	90%	
KAFJ532G36	KAFJ533G36	KDDFJ53G36
KAFJ532G56	KAFJ533G56	KDDFJ53G56
KAFJ532G80	KAFJ533G80	KDDFJ53G80
KAFJ532G160	KAFJ533G160	KDDFJ53G160

- Be sure to install this kit after installing the indoor unit and the filter chamber.
- For its installation, refer to the installation manual of indoor unit and the installation manual of decoration panel as well.

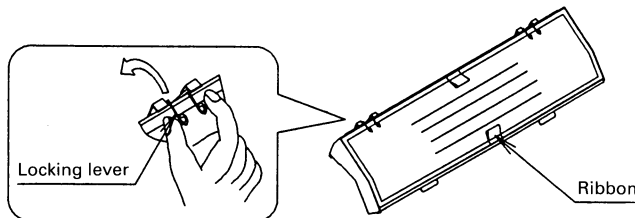
**Contents of kit**

Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

Name	Filter frame (with filter)	Capacitor
Shape		
KAFJ532G36 KAFJ533G36	2 sets	1 piece
KAFJ532G56 KAFJ533G56	2 sets	1 piece
KAFJ532G80 KAFJ533G80	2 sets	2 pieces
KAFJ532G160 KAFJ533G160	4 sets	3 pieces

#### 1. Preparation of the filter frame

- Remove filters from the filter frame.  
Remove the holder by pinching the locking lever and pull out the ribbon.



C : 1P009285A

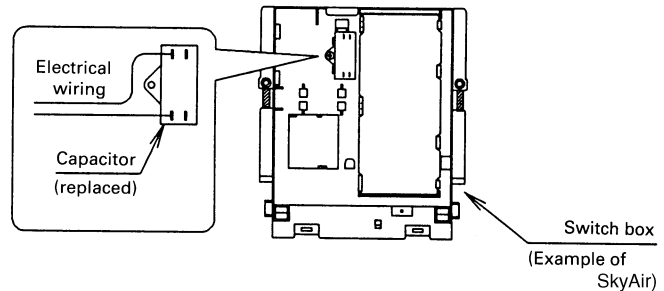
3 3.2 KAFJ532G36-56-80-160 / KAFJ533G36-56-80-160

## 2. Preparation of the indoor unit

- Remove the switch box of the indoor unit and replace the capacitor in the switch box with the replacement capacitor included in the kit. The size of the capacitor varies depending on the model of the indoor unit. Be sure to replace with the proper size of capacitor referring the following table.

You can find 2 capacitors in the optional kit of KAFJ532G80 and KAF533G80 and 3 capacitors in the optional kit of KAFJ532G160 and KAFJ533G160. Select the proper size of capacitor corresponding to the model of the indoor unit and replace it. The remaining capacitor(s) shall not be used.

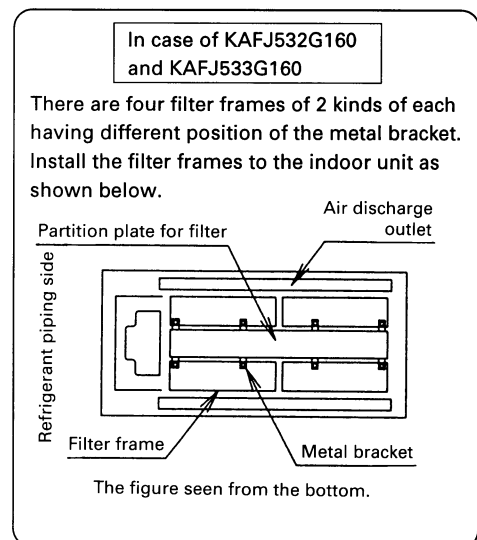
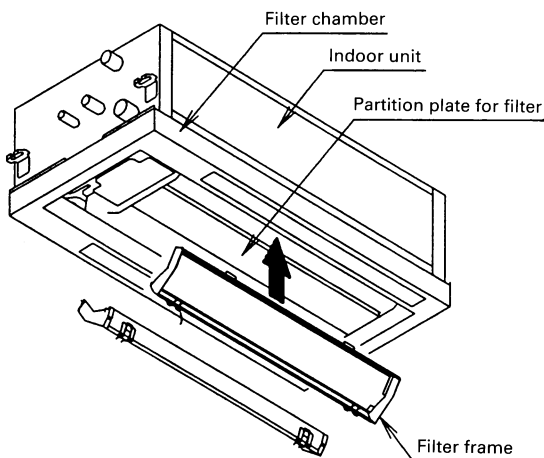
- Remove the two electrical wiring (white and yellow) from the capacitor.
- Replace the capacitor with the replacement capacitor in the kit.
- Connect the electrical wiring to the capacitor.  
(There is no polarity, so that the white and the yellow electrical wire can be connected to either terminal of the capacitor.)



High efficiency filter	Capacity of the replacement capacitor	Model name of indoor unit
		VRV series
KAFJ532G36 KAFJ533G36	2.0 $\mu$ F	20, 25, 32 Class
KAFJ532G56 KAFJ533G56	2.0 $\mu$ F	40K, 50 Class
KAFJ532G80 KAFJ533G80	2.0 $\mu$ F	63 Class
KAFJ532G160 KAFJ533G160	4.5 $\mu$ F	80 Class
	6.0 $\mu$ F	125 Class

## 3. Installation of the filter frame

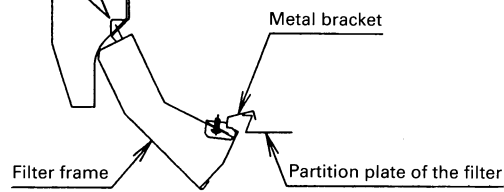
- Attach the filter frame to the indoor unit, where the original filter was located.  
(Refer to the operation manual of the indoor unit how to remove the standard filter. The standard filter removed shall not be used.)



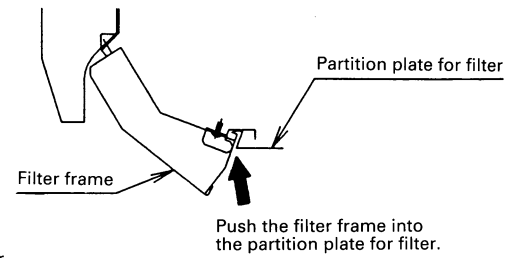
1P009285A

- ① Loosen the screw of the metal bracket located on each end of the filter frame and hook the filter frame temporarily to the partition plate located at the center of the indoor unit.

Insert the tip of the filter frame into the setting hole for the standard filter.



- ② Fasten the screw of the metal bracket tightly.



#### 4. Installation of the high efficiency filter

Install the filter in the reverse step of the item 1. of this manual.

1P009285A

### 3.3 KDDFJ53G36-56-80-160 — Filter Chamber for Bottom Suction

**Caution**

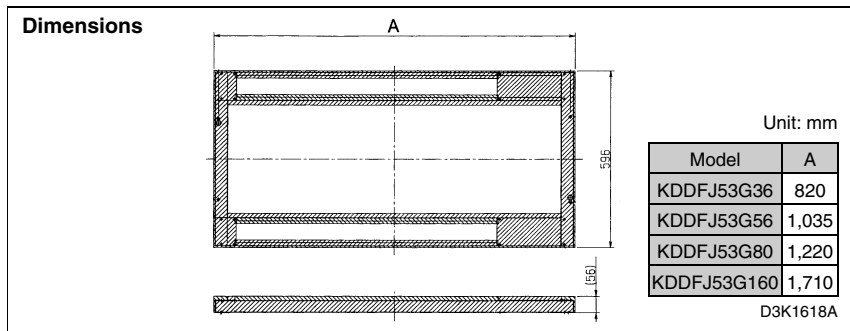
For the installation of this kit, the high efficiency filter kit is also required. Select the matching high efficiency filter from the following table.

- Refer to the installation manuals for both indoor unit and the decoration panel, when you install the filter chamber.
  - Attach insulation. Does not take up time on location.

KDDFJ53G56



Model		KDDFJ53G36	KDDFJ53G56	KDDFJ53G80	KDDFJ53G160
Item					
Main applicable models		20 · 32 Class	40 · 50 Class	63 Class	80 · 125 Class
High-efficiency filter	65 (colorimetric method)	KAFJ532G36	KAFJ532G56	KAFJ532G80	KAFJ532G160
	90 (colorimetric method)	KAFJ533G36	KAFJ533G56	KAFJ533G80	KAFJ533G160
Weight (kg)		3.0	3.3	3.6	4.2



**Component parts**

- Filter chamber
- Mounting screw.
- Installation Manual

**Installation**

**1. Contents of kit**

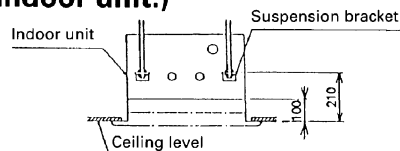
Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

Name	Filter chamber	Screws for chamber	Installation manual
Shape		M5 x 40	
Quantity	1 set	KDDFJ53G36-56-80..... 4 pieces KDDFJ53G160..... 6 pieces	1 piece

**2. Installation of the indoor unit**

(Refer to the installation manual included in the indoor unit.)

- Install the indoor unit
- Refer to the drawing on the right for the layout of the indoor unit and ceiling.
- (For other details, refer to the installation manual of the indoor unit.)

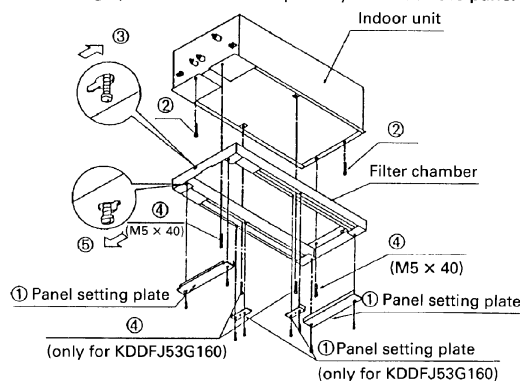


**3. Installation of the filter chamber**

**Caution**

- Be sure to install the filter chamber according to this manual.
- Be sure to fasten the screws tightly so as no gap between the indoor unit and the chamber, which may cause the air leakage and condensation.

- Remove the panel setting plate from the chamber.
- Set the two screws temporarily to the indoor unit. (fasten the screws about 10 mm)
- Hook the filter chamber to the screws by sliding into and fasten the screws tightly.
- Set the remaining screws and fasten tightly. (4 screws for KDDFJ53G36-56-80, 6 screws for KDDFJ53G160)
- Install the panel setting plate removed in ①. (Set the screws temporarily and hook the panel setting plate, and fasten tightly.)



### 3.4 KAFJ531G36-56-80-160 — Long Life Replacement Filter

KAFJ531G56



Item	Model	KAFJ531G36	KAFJ531G56	KAFJ531G80	KAFJ531G160
Applied models		20-25-32 Class	40-50 Class	63 Class	80-125 Class
Average efficiency (%)	50 (Gravity method)				
Initial pressure loss (Pa)	8 or less				
Final pressure loss (Pa)	49				
Life time (h)	2,500 hours (Dust particle concentration at 0.15mg/m <sup>3</sup> )				
Materials	Mildew proof resin net				
Number required per model		2	2	2	4
Weight (kg)		0.2	0.3	0.4	0.6

**Caution**

- Can be water-washed. Can be reused.

**Dimensions** Unit : mm

	KAFJ531G36	KAFJ531G56	KAFJ531G80	KAFJ531G160
A	485	700	881	684

J : D3K1607A  
J : D3K1608B

**3**  
3.4 KAFJ531G36-56-80-160

## 4. FXK (Q) - Ceiling Mounted Cassette Corner Type -

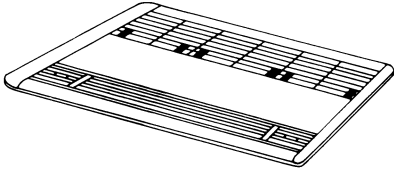
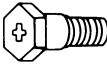

### 4.1 BYK45-71FJW1 — Decoration Panel BEFORE INSTALLATION

#### PRECAUTIONS

- Refer also to the installation manual attached to the indoor unit.

#### ACCESSORIES

- The box contains this manual and the parts listed below.

Item	Description	Quantity	
		BYK45FJ	BYK71FJ
Decoration panel		1 set	1 set
Panel fixing screw	 M5 X 35	5 pcs.	5 pcs.
Washer		5 pcs.	5 pcs.

#### NOTE TO INSTALLER

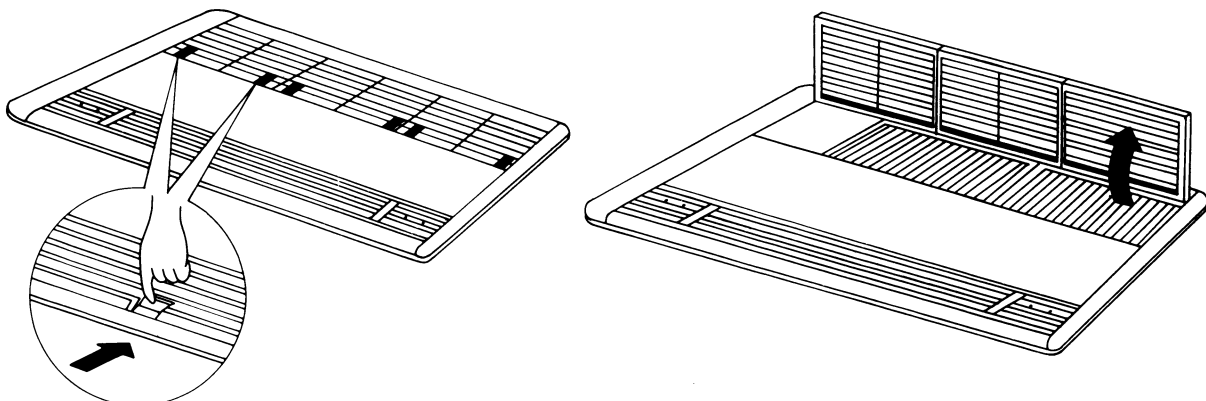
Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

## PREPARATION OF DECORATION PANEL

- Handle the decoration panel with care.  
< **Never lean the panel against a wall, etc. nor leave it on a projecting object. (For prevention of dents and damages to the panel surface)**  
**Never grab the discharge grille during the installation work. (For prevention of damage to the discharge grille)** >

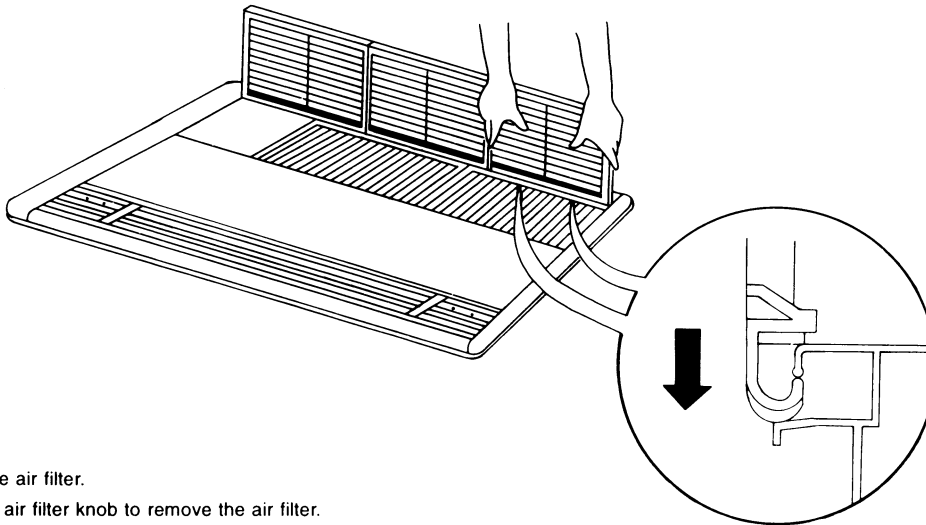
(1) Remove the suction grille from the decoration panel. (See figure below.)

- ① Slide the suction grille lever and lift it up to one side.



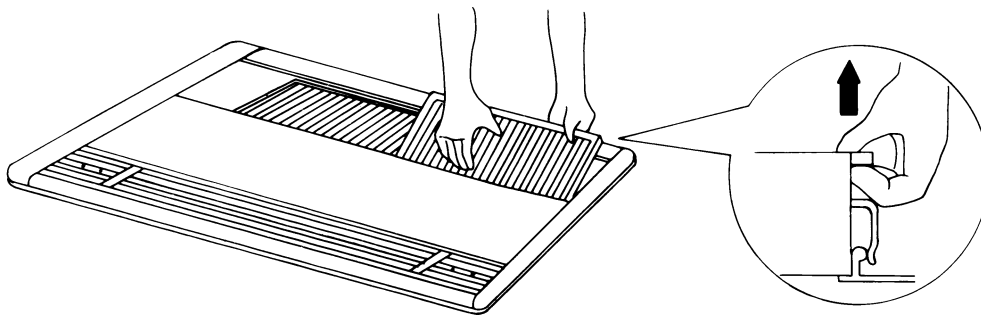


② Unhook the suction grille off from the decoration panel.



(2) Remove the air filter.

Pull up the air filter knob to remove the air filter.

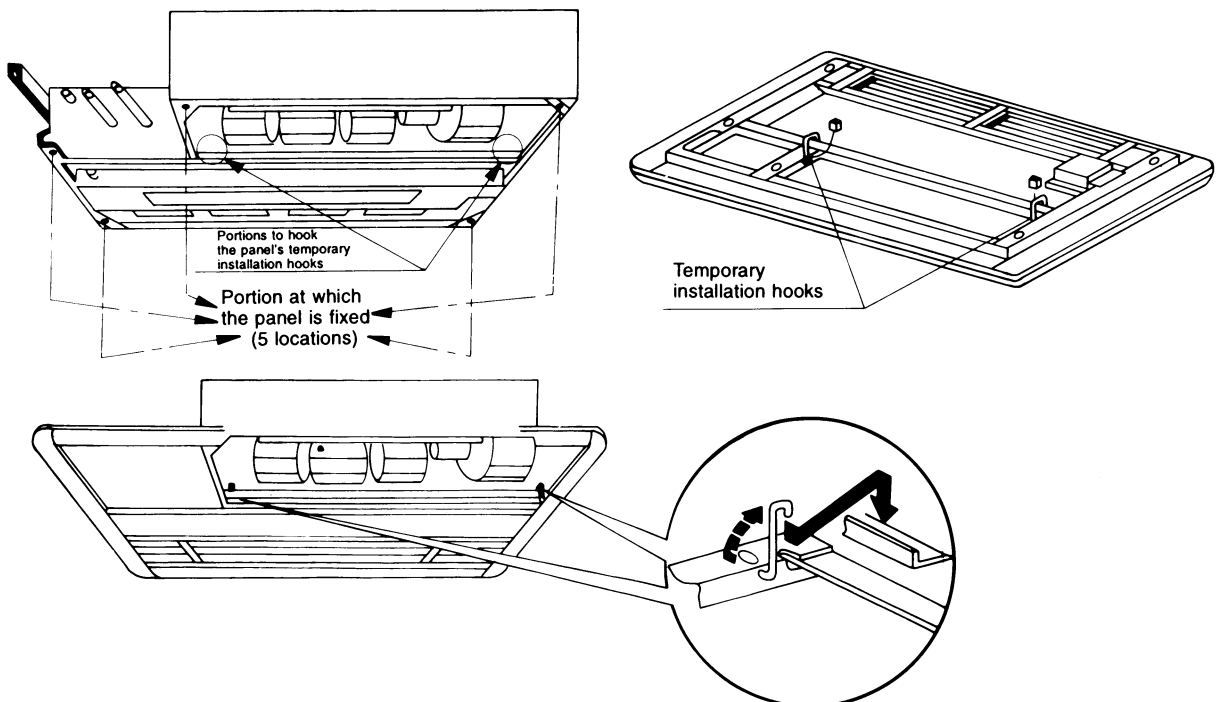


## INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT BODY

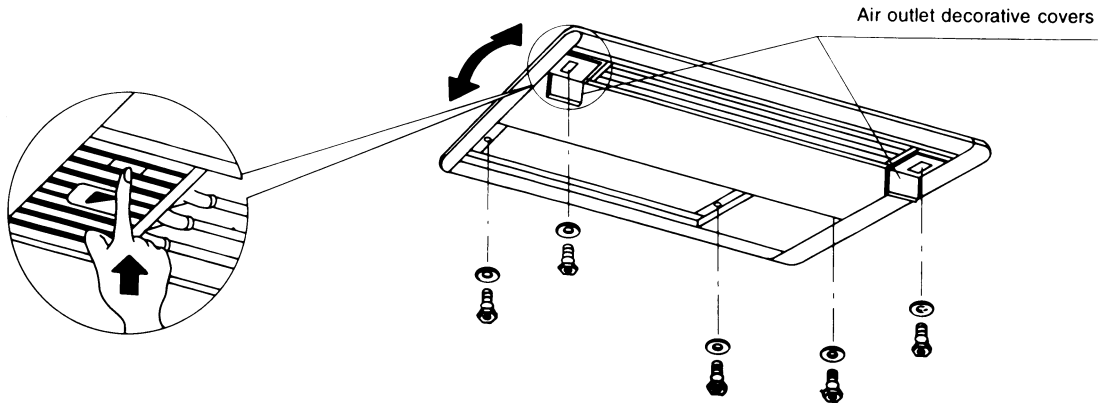
《 Refer to the installation manual attached to the indoor unit for the installation of the indoor unit. 》

### 1. Installing the panel

(1) Install the decoration panel to the indoor unit body temporarily.



- (2) Tighten the panel fixing screws temporarily.
- ① Open the air outlet decorative covers.

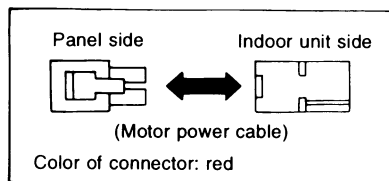


- ② Put the panel fixing screws (5 pcs.) through the washers and tighten the screws temporarily.
- ③ Move the panel as indicated by the arrow in the above figure for adjustment so as to make no gap between the panel and the ceiling.

**2. Wiring between the indoor unit and the panel**

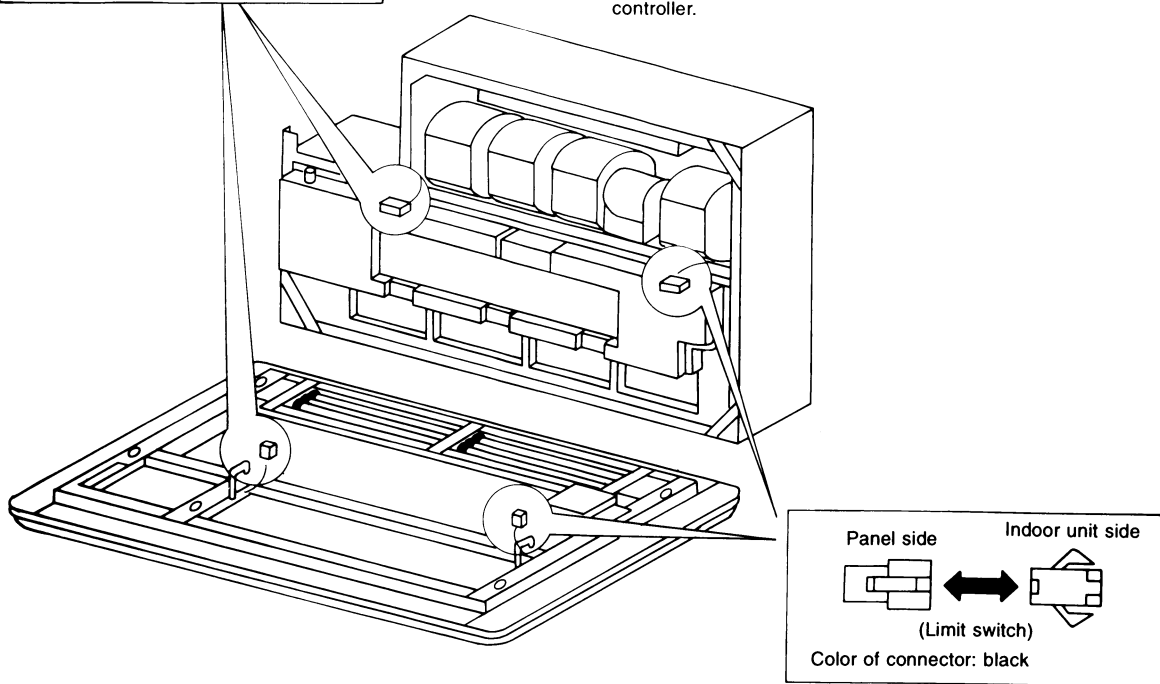
- With the decoration panel temporarily installed to the indoor unit, wire between the indoor unit and the decoration panel.  
(See figure below.)

- (1) Connect the connectors for swing motor and the limit switch on the decoration panel to those on the indoor unit body respectively.
- (2) Check that the connectors are of the same color.



**Note:**

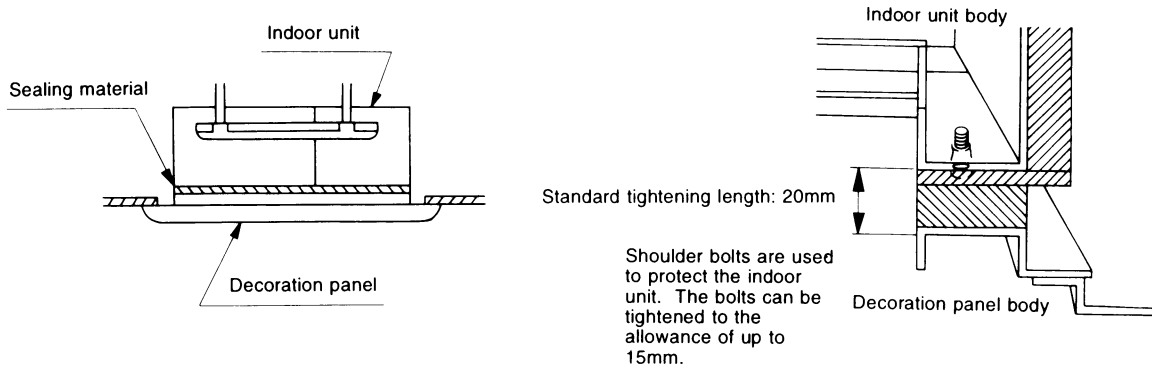
No connection of connectors or connection of connectors of different colors causes the unit to stop operating with the Operation lamp on the remote control blinking and the trouble code display "A7" on the remote controller.



3PA59586-3B

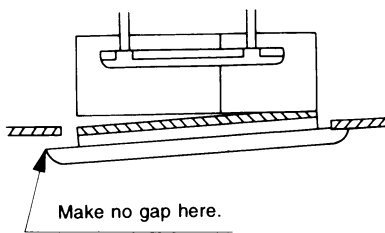
**3. Fixing the decoration panel**

(1) In order to prevent air leakage, a sealing material is provided at the spot where the indoor unit body is joined with the decoration panel. Fix the decoration panel in the following method. (Shoulder bolts are used as the fixing screws. Tighten the bolts until their shoulders.)



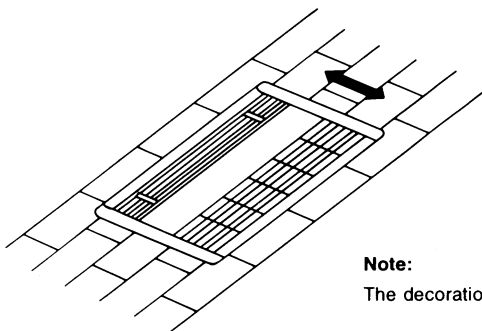
(2) When tightening the bolts, be sure to make no gap between the panel and the ceiling and set the panel in parallel to the ceiling and the ceiling joint.

( Improper installation of the panel to the cassette body causes air leakage. )



**Note:**

In case there remains a gap between the panel and the ceiling when the fixing bolts have been tightened fully to their shoulders, adjust the height of the indoor unit.

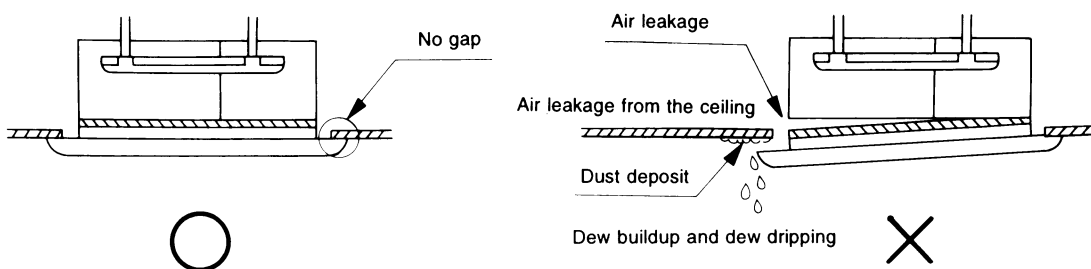


**Note:**

The decoration panel can be adjusted back and forth to 10 mm, respectively.

(3) Finally, make sure that the decoration panel is securely fixed to the indoor unit.

( Improper installation (tightening) causes the troubles as shown below; be sure to double-check the completion of the installation work. )



## 4.2 KPBJ52F56-80W — Panel Spacer

If the space above the ceiling is not available for more than 220mm, use the panel spacer, which enables to install the unit in 200mm space.

KPBJ52F56W



This photo is a part of the product.

Dimensions
Unit:mm

Model	A	B	C
KPBJ52F56W	1239	1212	295
KPBJ52F80W	1439	1412	345

C: D3K1412A

Model	KPBJ52F56W	KPBJ52F80W
Item	KPBJ52F56W	
Color	White	
Material	Aluminum extrusion (resin used on corner part only)	
Component	Panel spacer, insulation, screws, installation manual.	
Weight (kg)	1.6	1.8
Applicable decoration panel	BYK45FJW1	BYK71FJW1
Applicable model	For indoor unit 25-40 Class	For indoor unit 63 Class

### Example of usage

- Mount the indoor unit so it is 2 cm away from the ceiling.
- Hide the gap between the decoration panel and the ceiling.

### Installation

#### ① Combination with the decoration panel

Be sure to check the model number in the table below before installation.

Space required in the ceiling	Kit name	Color	Applied decoration panel
20 cm	KPBJ52F56W	White	BYK45FJW1
	KPBJ52F80W	White	BYK71FJW1

#### ② Contents of kit

Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

Name	Panel spacer (1)	Panel spacer (2)	Panel spacer (3)	Thermal insulation (1)
Quantity	2 pieces	2 pieces	4 pieces	2 pieces
Shape				
Name	Thermal insulation (2)	Screws	Installation manual	
Quantity	2 pieces	18 pieces	1 piece	
Shape				

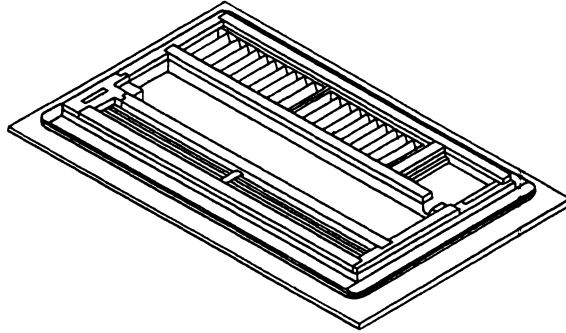
JC: 3K07220A

### ③ Preparation of the decoration panel

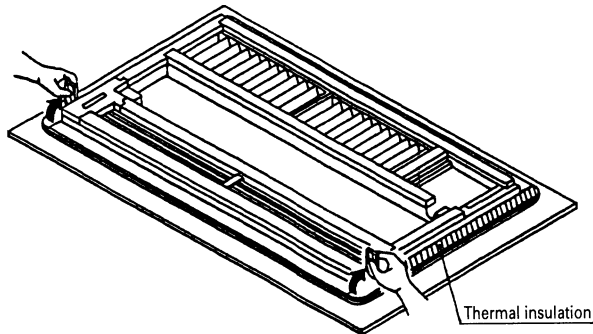
- Handle the decoration panel with care.

Never lean against the wall or leave it on a projecting object to prevent the damage on the surface of the panel. Never hold the air discharge outlet when installing to prevent the air discharge outlet from damage.

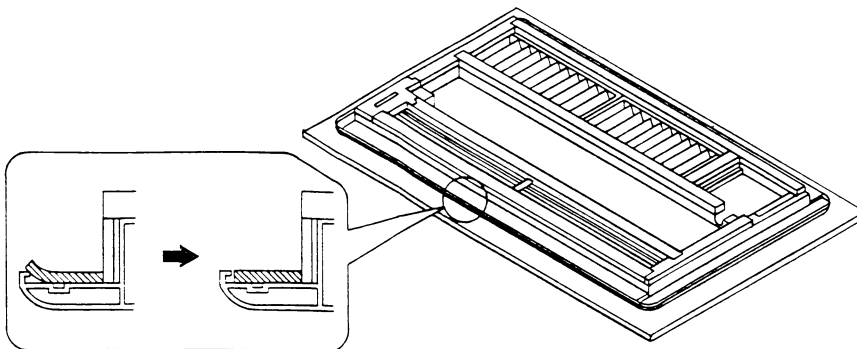
- (1) Place the decoration panel face down on the corrugated cardboard or the vinyl sheet to prevent the damage on the surface.



- (2) Remove the thermal insulation. (2 locations)



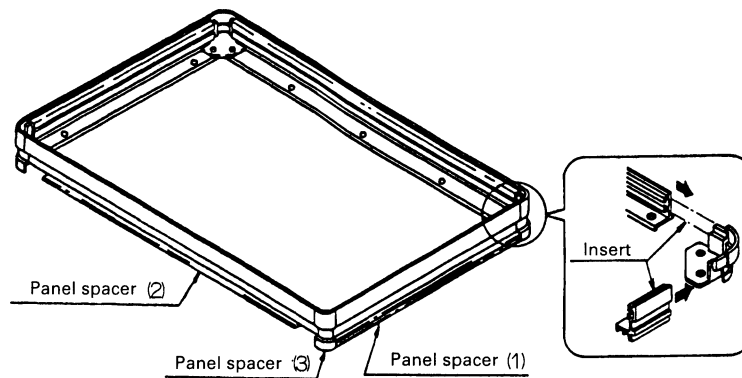
- (3) Remove the glue on the thermal insulation where the panel spacer is installed. Remove also the stick-out glue on the panel frame by cutting knife etc.



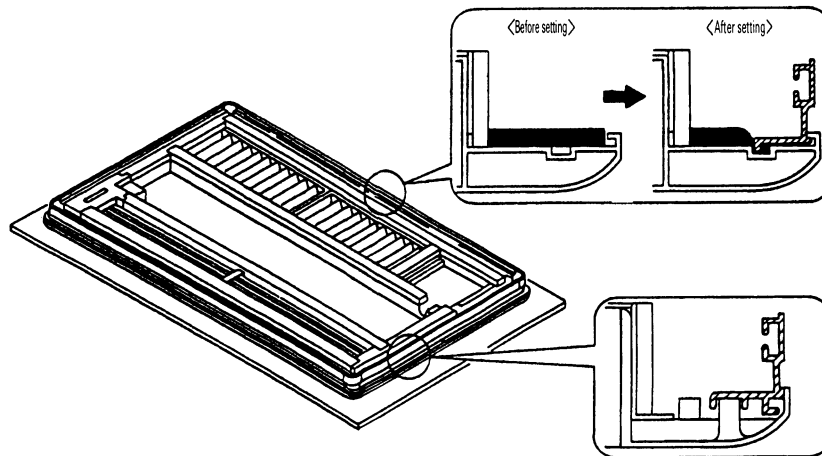
JC: 3K07220A

④ Installation of the panel spacer

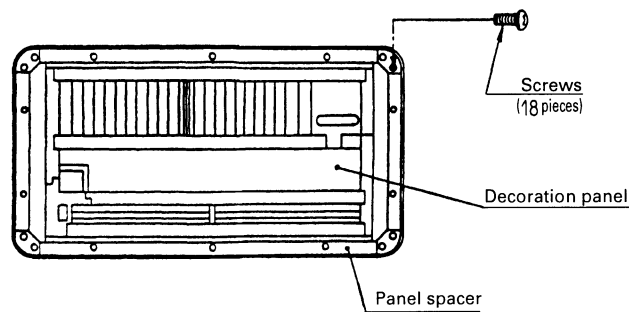
(1) Assemble the panel spacer (1), (2) and (3) temporarily.



(2) Set the temporarily assembled panel spacer to the decoration panel.

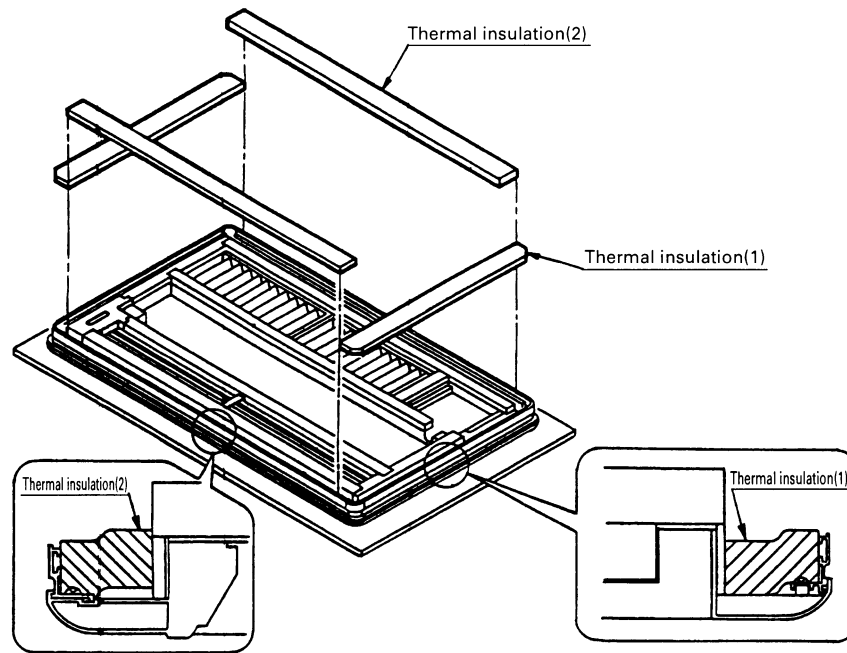


(3) Fix the panel spacer to the decoration panel with screws (18 pieces).



JC: 3K07220A

(4) Attach the thermal insulation (1) and (2).



#### ⑤ Selection of the location for installation

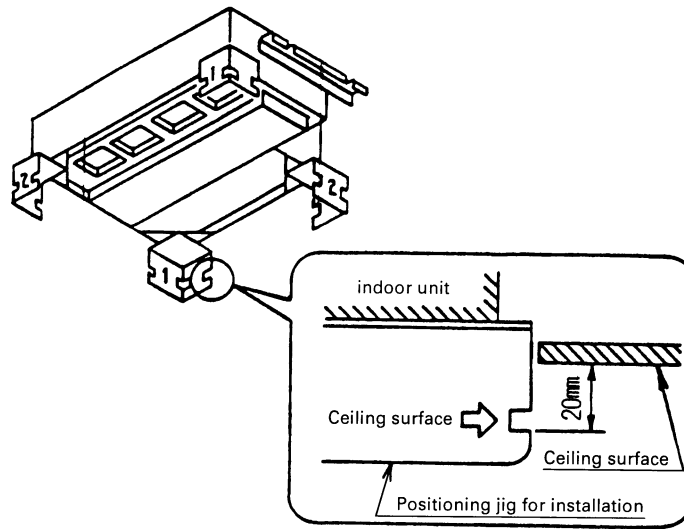
It is required the space of 20cm above the ceiling for the installation.

Refer to the item of "Selecting installation site" of the installation manual of the indoor unit for other details.

JC: 3K07220A

**⑥ Installation of the indoor unit**

When you install the panel spacer, lower the indoor unit by 20cm from the standard height.



Refer to the item of "Indoor unit installation" of the installation manual of the indoor unit for other details.

**⑦ Attachment of the decoration panel**

After the completion of installation of the panel spacer, attach the decoration panel to the indoor unit.

JC: 3K07220A

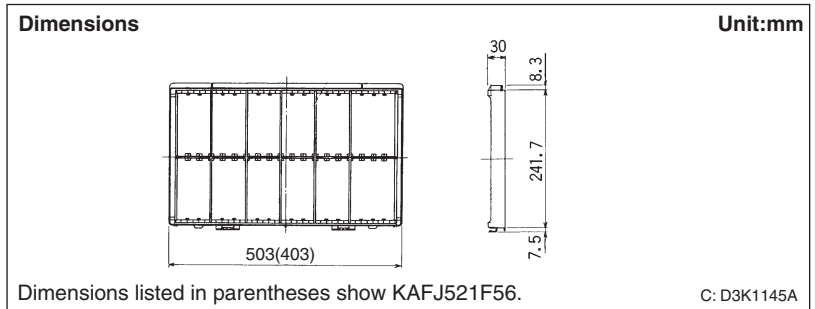


### 4.3 KAFJ521F56-80 — Replacement Long-Life Filter

KAFJ521F80



· Can be water-washed. Can be reused.

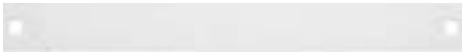


Item	Model	KAFJ521F56	KAFJ521F80
Average efficiency (%)		45 (Gravity method)	
Initial pressure loss (Pa)		9.8 or less	
Final pressure loss (Pa)		49	
Life (h)		2,500 (dust concentration 0.15 mg/m <sup>3</sup> )	
Filter element		Mildew-proof resin net	
Number of sheets included		2	
Mass (kg)		0.4	0.6

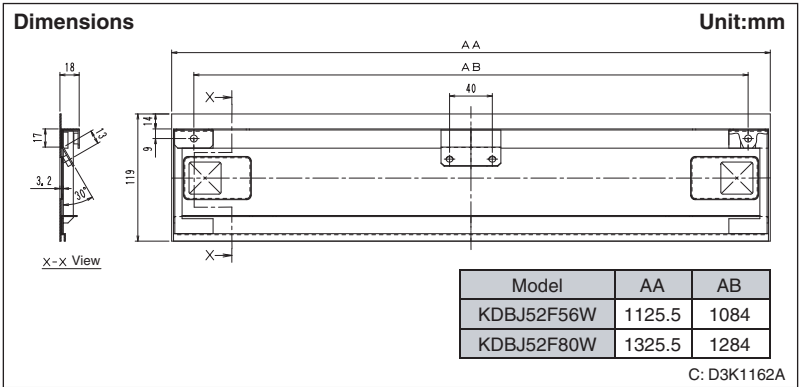
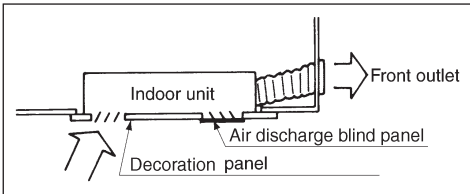
### 4.4 KDBJ52F56·80W — Air Discharge Blind Panel

This optional kit is to blind the bottom discharge outlet, when the unit is used with front air discharge.

KDBJ52F56W



Example of usage



Item	Model	KDBJ52F56W	KDBJ52F80W
Color		White	
Material		Steel plate	
Mass (kg)		1.8	2.2
Component parts		Blind panel assembly. Name plate. Supporting bracket. Screws. Installation manual. Set of caution stickers.	

**Additional required accessories**

- Discharge grille
- Flexible duct with shutter
- This optional kit is to blind the bottom discharge outlet, when the unit is used with front air discharge.

### Installation

#### ① Combination with decoration panel

This kit is used to cover the air discharge outlet of the decoration panel when the unit is installed with the front air discharge.

Name	Color	Applicable decoration
KDBJ52F56W	White	BYK45FJW1
KDBJ52F80W	White	BYK71FJW1

#### ② Contents of kit

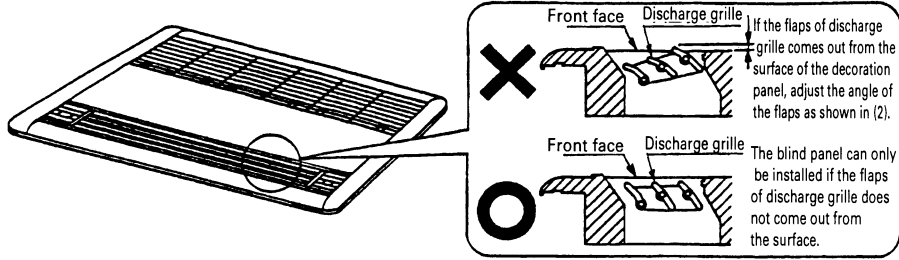
Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

Name	Blind panel assembly	Supporting bracket	Name plate (1)	Name plate (2)
Quantity	1 piece	1 piece	1 piece	1 piece
Shape				
Name	Screws(M5×8)	Screws(M5×40)	Installation manual	Set of caution stickers
Quantity	2 pieces	2 pieces	1 piece	1 piece
Shape	 M5×8	 M5×40		

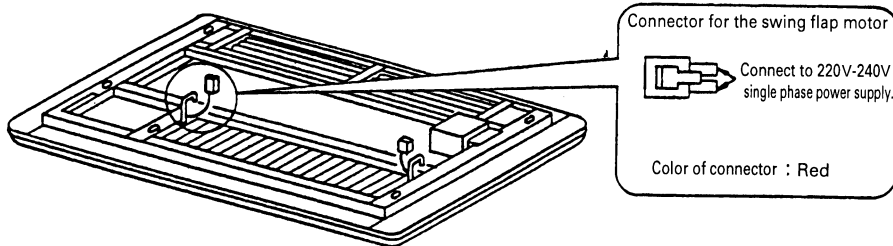
1P016132

③ Examination of the decoration panel before removing

(1) Check the angle of the flaps of discharge grille.

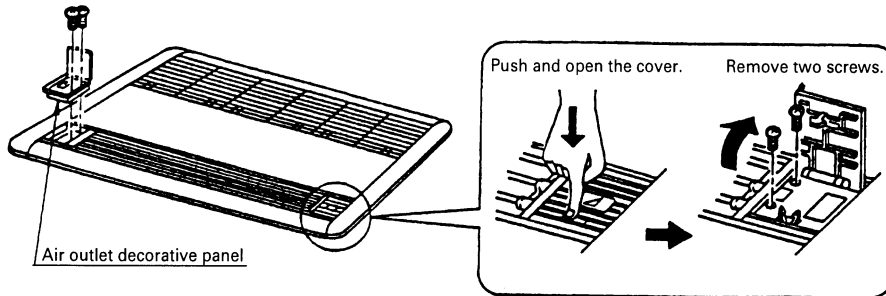


(2) If it is required to adjust the angle of the flaps, supply the electrical power(220V-240V single phase) to the air swing motor connector and adjust the position of the flaps.

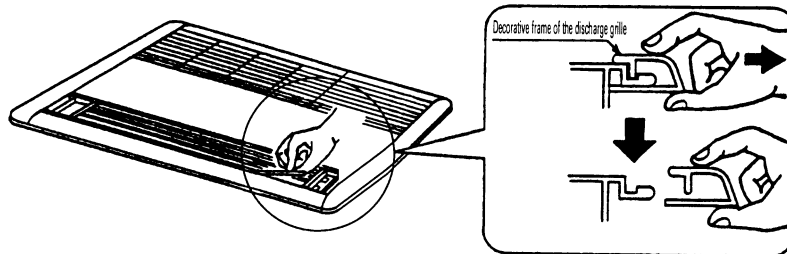


④ Removing the parts

(1) Remove the air outlet decorative covers.

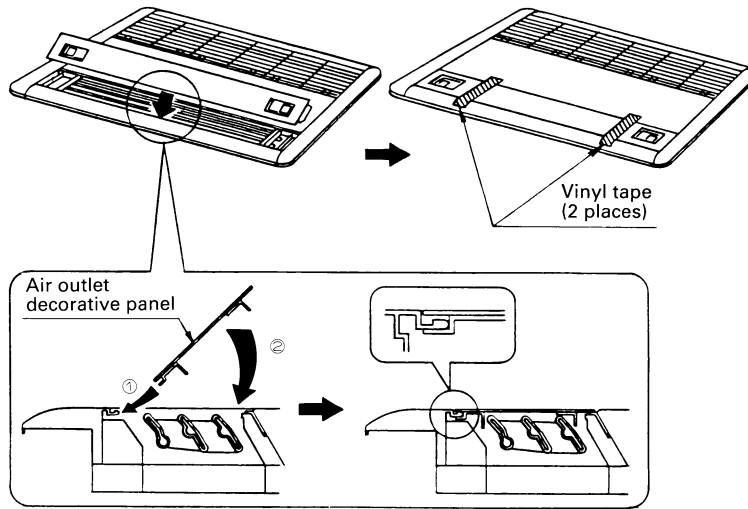


(2) Remove the decorative frame of the air discharge grille.

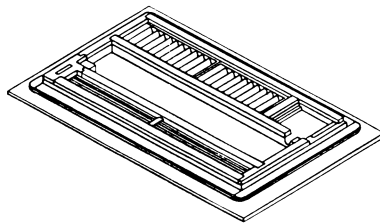


⑤ Installation of the air discharge blind panel

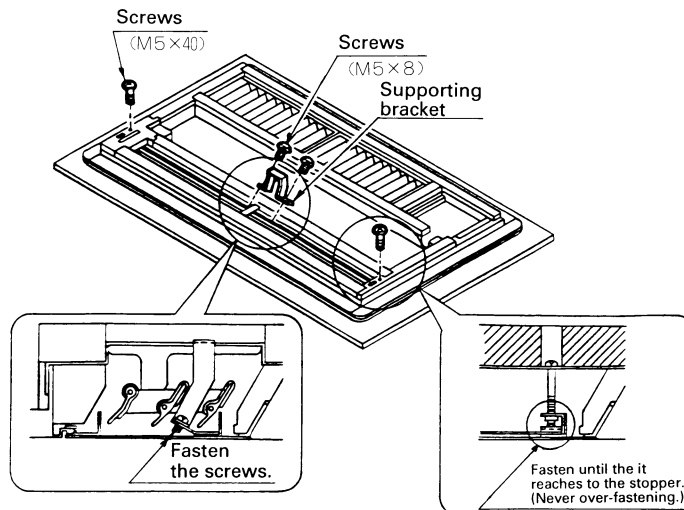
(1) Attach the air discharge blind panel and put the vinyl tape to hold panel temporarily.



(2) Place the decorative panel face down on the corrugated cardboard or vinyl sheet to protect the surface of the decoration panel.



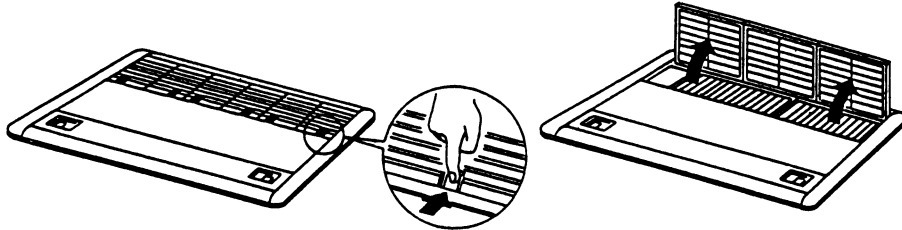
(3) Set the air discharge blind panel with the supporting bracket and fasten the screws.



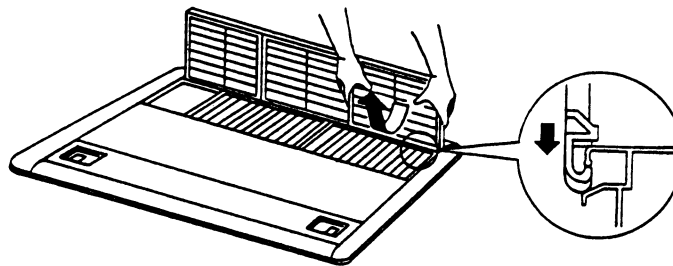
## ⑥ Preparation of the decoration panel

(1) Remove the suction grille from the decoration panel.

(1)-1 Slide the lever of the suction grille and lift it up to one side.

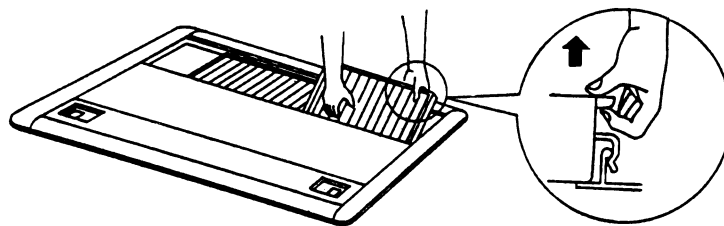


(1)-2 Unhook the suction grille off from the decoration panel.



(1)-3 Remove the air filter.

Pull up the air filter knob and remove the air filter.



C: 1P016132

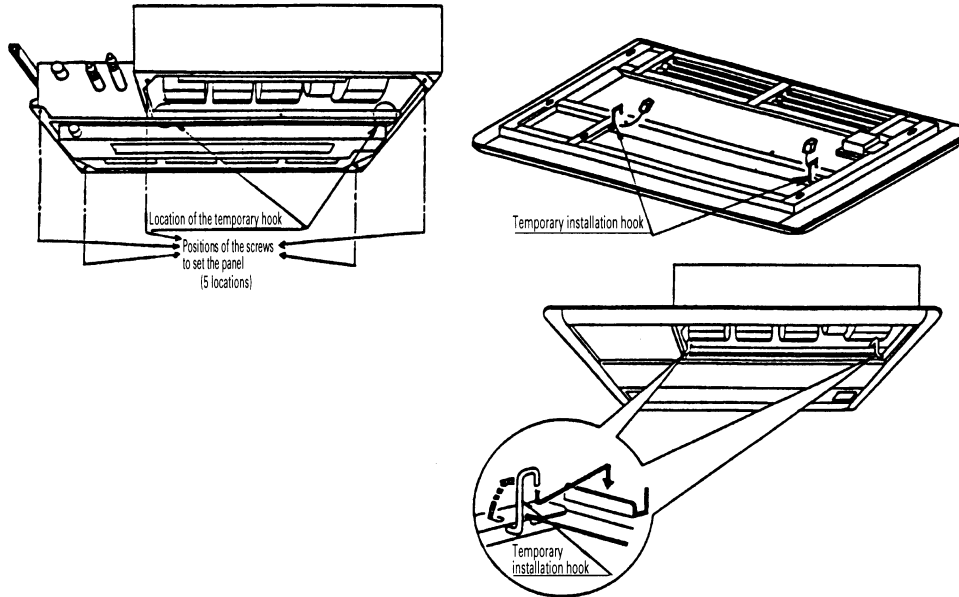
⑦ **Installing the decoration panel to the indoor unit**

Install the decoration panel after the completion of the installation of the front discharge panel.

① Installation of the decoration panel

Refer to the installation manual of the indoor unit for its installation.

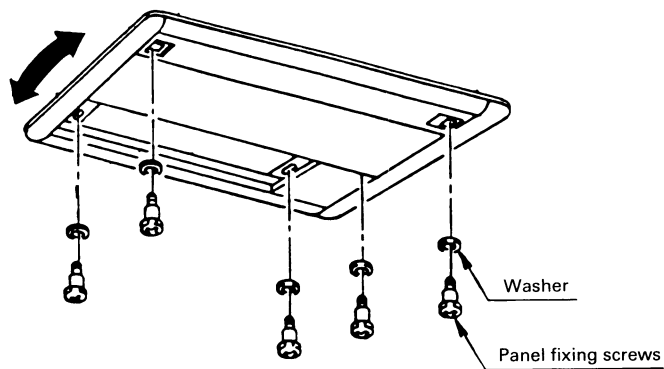
(1) Hook the decoration panel to the indoor unit temporarily.



(2) Fasten the panel fixing screws temporarily.

(2)-1 Set the washer to the screws and fasten temporarily.

(2)-2 Adjust the panel as shown below to fit with the opening of the ceiling properly.

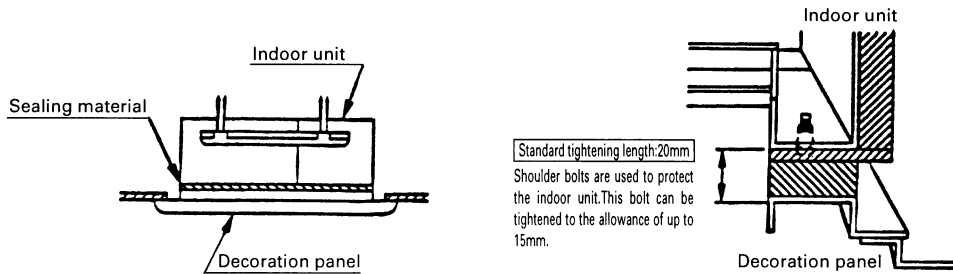


C: 1P016133

② Electrical wiring between indoor unit and the decoration panel  
Never connect the connector of the swing motor and the limit switch.

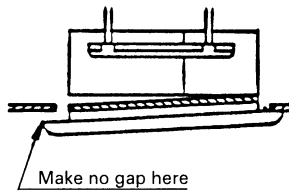
③ Fixing of the decoration panel

(1) The sealing material is attached between indoor unit and the panel to seal the air leakage from the connecting part. Fasten the screws tightly according to the following drawing. (The shoulder bolts are used as fixing screw. Tighten the bolts until their shoulders.)



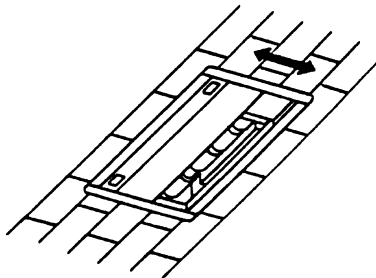
(2) When tightening the bolts, be sure to make no gap between the panel and the ceiling, and set the panel in parallel to the ceiling and the ceiling joint.

**Improper installation of the panel to the indoor unit causes air leakage.**



**Caution**

If there will be a gap between the panel and the indoor unit after tightening the bolts up to the shoulder, adjust the height of the indoor unit.

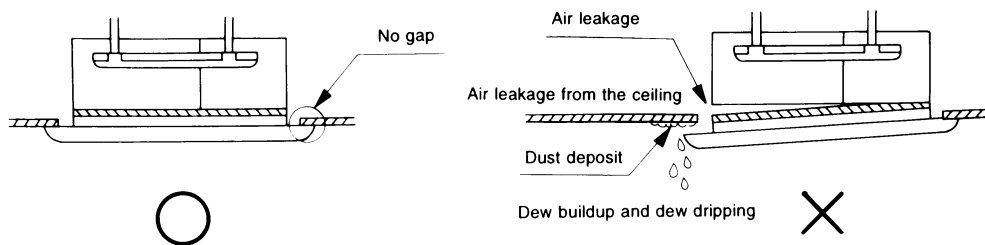


**Caution**

The decoration panel can be adjusted back and forth to 10mm respectively.

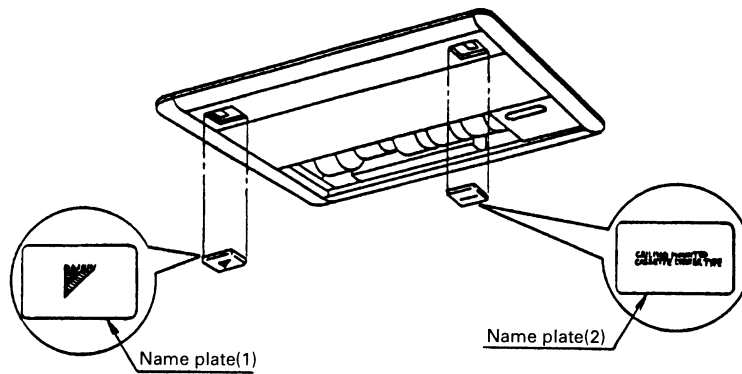
(3) Make sure whether the decoration panel is securely fixed to the indoor unit.

Improper installation (loose tightening) causes the trouble as shown below. Be sure whether the installation is completed properly again.

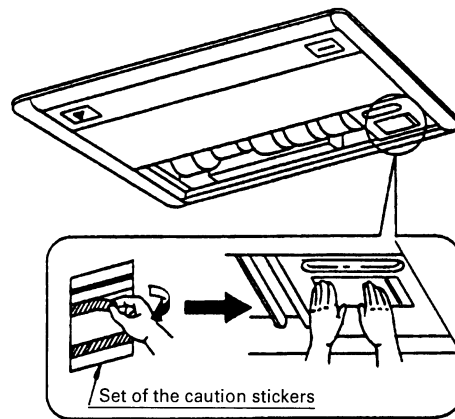


**⑧ Attaching the set of name plate**

(1) Attach the name plates as follows.



(2) Attach the set of caution stickers.



**⑨ Installation of the suction grille and air filter**

Refer to the item ⑥ "Preparation of decoration panel" of this manual, and install it in the reverse step.

C: 1P016133

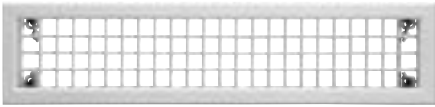


### 4.5 K-HV7-9AW — Discharge Grille

This optional kit is used when the unit is installed with front air discharge. The direction of air can be adjusted flexibly.

This discharge grille should be installed with the following flexible duct.

K-HV7AW



**Dimensions** Unit:mm

Model	Dimensions (mm)			Mass (kg)
	A	B	C	
K-HV7AW	523	466	488	1.3
K-HV9AW	723	666	688	1.7

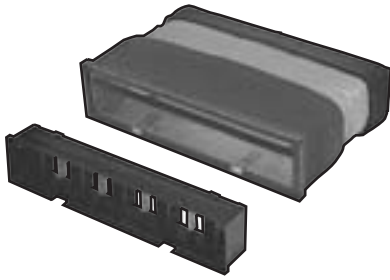
■ Specification  
 ● Movable vane  
 ● Material : Steel plate construction, surrounding cedar flame (nylon flocking)

C: D3K1972C

Item	Model	K-HV7AW	K-HV9AW
Material		Steel plate construction. Surrounding cedar flame (nylon flocking).	
Accessories		Wing adjusters. Attachment clamp.	
Available volume flow rate		5.0~12.0	7.0~17.0
Mass (kg)		1.3	1.7

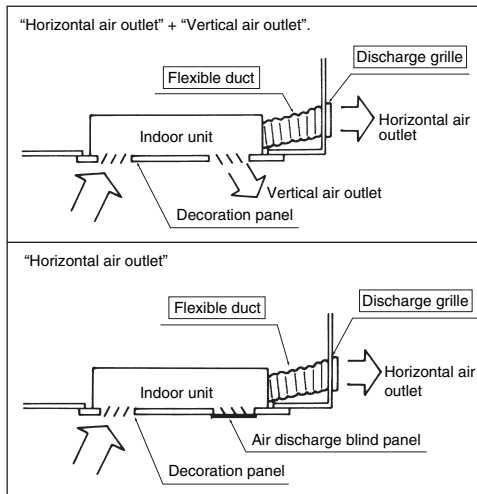
### 4.6 KFDJ52FA56-80 — Flexible Duct with Shutter

KFDJ52FA56



- Internal shutter  
→ Using the shutter allows adjustment of fan strength for front and bottom directions.
- Location of attachment can be varied within 20 mm up or down. Connection to indoor unit also easy to do.

**Installation**



**Dimensions** Unit:mm

KFDJ52FA80 only

Model	A	B	C
KFDJ52FA56	520	498	530
KFDJ52FA80	720	698	730

C: D3K04935

Item	Model	KFDJ52FA56	KFDJ52FA80
Thermal insulation		Material: glass wool (t=25 mm, specific gravity=24 kg/m <sup>3</sup> )	
Mass (kg)		4.5	5.0
Component parts		Flexible duct. Shutter. Setting plate for duct. Sealing pad. Shutter adjuster. Screws. Thermal insulation. Installation manual.	

**1 Combination with discharge grille**

The "Discharge grille" is also required, when you install the flexible duct.  
When you install the unit with "Horizontal air outlet", the air discharge blind panel of optional kit can be installed on the decoration panel, if necessary.

Flexible duct	Discharge grille	Color	Applied model
KFDJ52FA56	K-HV7AW	White	FXYK FH(Y)K 25~45 type
KFDJ52FA80	K-HV9AW	White	FXYK FH(Y)K 56~71 type

**Note:** Be sure to use the original optional discharge grille. If you use the discharge grille in the market, you may have a problem with the distribution of the room temperature or the condensation on the grille.

**2 Contents of kit**

Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

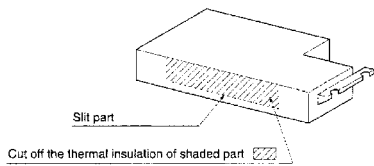
Name	Flexible duct	Shutter	Thermal insulation (1)	Thermal insulation (2)	Setting plate for duct	Flap adjuster
Shape						
Quantity						
KFDJ52FA56	1 piece	1 piece	1 piece	1 piece	4 pieces	1 piece
KFDJ52FA80	1 piece	1 piece	1 piece	1 piece	6 pieces	1 piece

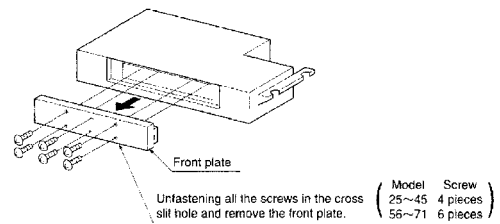
Name	Sealing pad				Installation manual	Screws		
Shape								
Quantity								
KFDJ52FA56	2 pieces	1 piece	1 piece	1 piece	1 piece	4 pieces	4 pieces	4 pieces
KFDJ52FA80		4 pieces		2 pieces	1 piece	6 pieces	6 pieces	4 pieces

**3 Preparation of indoor unit**

(1) Cut off the thermal insulation on the front face of the indoor unit along with the slit furnished.



(2) Remove the front plate by unfastening all the screw.



**4 Attaching the sealing pad to the air discharge outlet**

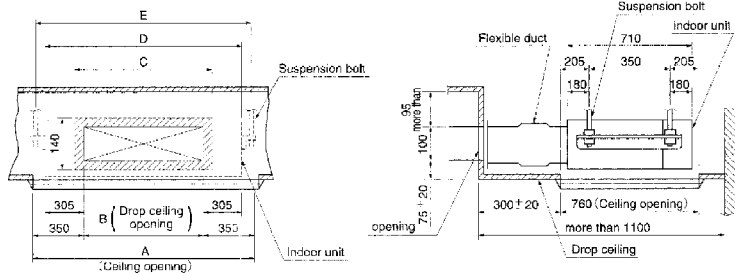
Cover the air discharge outlets with the sealing pads as needed by the installation site as shown in the table below. Peel off the paper mating from the backside of one of the sealing pad and attach the pad to the drain pan opening.

Model installation pattern	"Horizontal air outlet" + "Vertical air outlet"		"Horizontal air outlet"	
	AX1, CX1, DX1		AX2, BX1	
25 { 45				
56 { 71				

**5 Preparation prior to the installation**

(1) Dimension and location of the opening of ceiling and drop ceiling, and also the suspension bolts.

(Unit [mm])



Flexible duct	A	B	C	D	E
KFDJ52FA56	1200	500	540	1110	1150
KFDJ52FA80	1400	700	740	1310	1350

(2) Make a opening in the ceiling for installation (If it is a existing ceiling.)

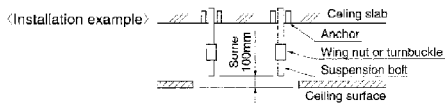
- Use the paper pattern (included the indoor unit) for installation, which has been made to the dimension of the opening in the ceiling.
- Make a opening in the ceiling, and run the refrigerant piping, drain piping, wire for remote controller and transmission wiring between indoor unit and outdoor unit up to the inlet port for the piping and wiring of the indoor unit. (Refer to the related items of the installation manual of the indoor unit for its installation of the piping and wiring.)
- After making a opening in the ceiling, reinforcement of the ceiling frame and etc. may be required to maintain the level of the ceiling or to prevent the vibration of the ceiling. For details, consult with building contractor or interior contractor.

(3) Make a opening in the drop ceiling for the installation of discharge grille. (If it is a existing ceiling.)

- Never install the ceiling joint in the shaped part , which disturb the installation of the flexible duct. (Install only a ceiling material.)

(4) Install the suspension bolts. (Use M8 size of the suspension bolts.)

- Use the hole-in anchors for the existing building and use the embedded inserts, embedded anchors for newly built ceiling so that weight of the unit is supported. Also adjust the length of the bolts to the ceiling before installing the unit.



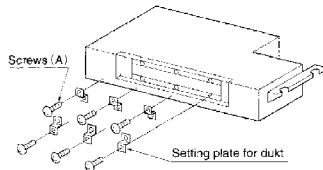
Note :All the parts shown above should be arranged locally.

1P16773

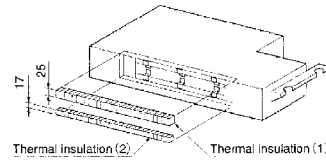
**6 Installation of indoor unit**

(1) Prepare for the installation of the flexible duct.

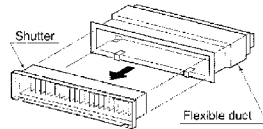
① Attach the setting plate for duct to the indoor unit with screws (A) (M4×12)



② Attach the thermal insulation (1) and (2) along the edge of opening.



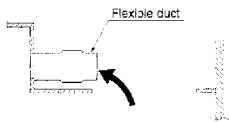
(2) Remove the shutter from the flexible duct.



(3) Install the indoor unit and the flexible duct.

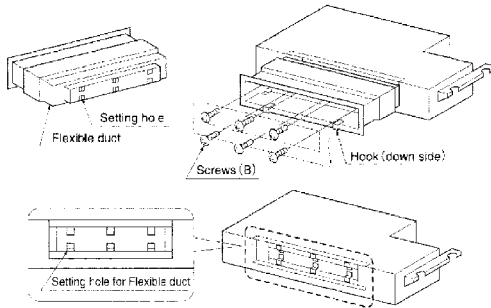
[In case of the existing ceiling]

① Install the flexible duct temporarily in the ceiling.



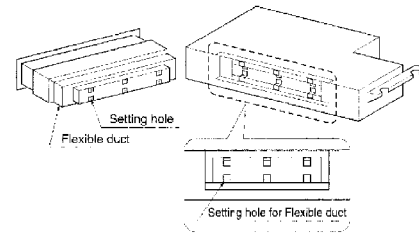
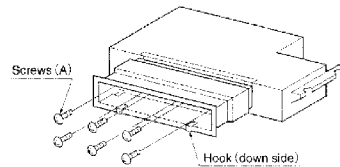
② Refer to the installation manual of the indoor unit and install the indoor unit.

③ Install the flexible duct to the setting plate for duct with screws (B) (M5×15), facing the hook of flexible duct to down side.



[In case of the new ceiling]

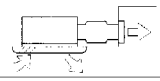
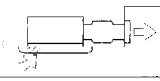
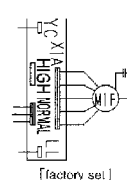
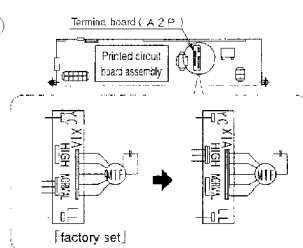
① Install the flexible duct to the indoor unit with screws (B) (M5×15), facing the hook of flexible duct to down side.



② Refer to the installation manual of the indoor unit and install the indoor unit (complete with flexible duct).

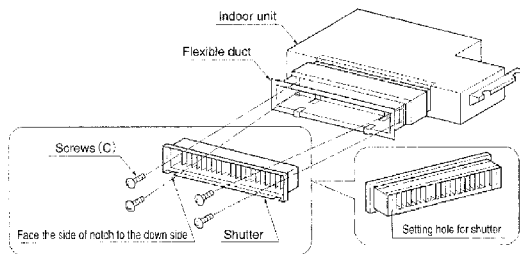
**7 Initial setting of the indoor unit**

Depending on the pattern of installation, connect the terminal board (A2P) of the indoor unit as follows. However, in case of SKY AIR series, set by the remote controller at the field set mode. For details, refer to the "How to set in the field" of the operation manual of the remote controller.

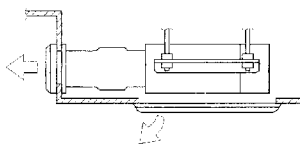
Model	Installation pattern	"Horizontal air outlet" + "Vertical air outlet"	"Horizontal air outlet"														
Less than 3m	(SKY AIR series)  Setting number of field setting <table border="1"> <thead> <tr> <th colspan="2">MODE No.</th> <th rowspan="2">FIRST CODE No.</th> <th rowspan="2">SECOND CODE No.</th> </tr> <tr> <th>Group setting No.</th> <th>Individual setting No.</th> </tr> </thead> <tbody> <tr> <td>Less than 3m</td> <td>13</td> <td>23</td> <td>6</td> </tr> <tr> <td>3m-3.8m</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MODE No.		FIRST CODE No.	SECOND CODE No.	Group setting No.	Individual setting No.	Less than 3m	13	23	6	3m-3.8m					  (SKY AIR series) No field setting required by the remote controller.  (VRV unit) No setting required.   [factory set]
		MODE No.				FIRST CODE No.	SECOND CODE No.										
Group setting No.	Individual setting No.																
Less than 3m	13	23	6														
3m-3.8m																	
3m-3.8m	(VRV unit)   [factory set]	Not possible	Not possible														

**8 Installation of the shutter and its adjustment**

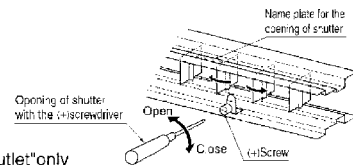
(1) Install the shutter in the inside of the flexible duct with screws (C) (M5X20).



(2) When the unit is installed with the pattern of the "Horizontal air outlet" + "Vertical air outlet", by referring to the following table, adjust the opening of shutter with the tool according to the height of the ceiling as directed in the name plate for the opening of shutter.



Opening of shutter	Proportion of the air volume		Ceiling height
	Horizontal air outlet	Vertical air outlet	
Full close	Never operate the unit with the shutter at "full close".		
25%	4	6	3m-3.8m
50%	5	5	Less than 3m
75%	5.5	4.5	
Full open	6	4	

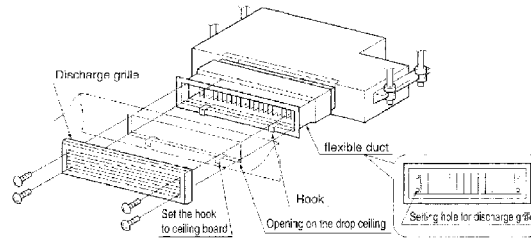


**Caution:** Be sure to set the shutter at "full open" when the unit is operated with "Horizontal air outlet" only

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**9** Installation of the discharge grille

- (1) Before installing the discharge grille, set the hook for duct to the lower side of the opening.
- (2) Install the discharge grille to the flexible duct with screws (M5X50) (included in the discharge grille kit) over the drop ceiling board



**10** Installation of the decoration panel to the indoor unit

- Install the decoration panel according to the pattern of the installation.

"Horizontal air outlet" and "Vertical air outlet"	"Horizontal air outlet"	
	When the air discharge blind panel is not installed.	When the air discharge blind panel is installed.
Refer to the installation manual of the decoration panel, install the decoration panel to the indoor unit.		Refer to the installation manual of the air discharge blind plate, install the decoration panel to the indoor unit.

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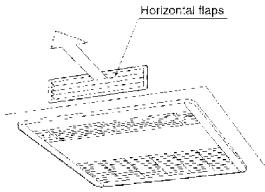
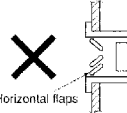
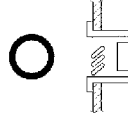
**11 Adjusting the direction of air discharge**

How to adjust the blow direction depending on the unit set-up.

In case of "Horizontal air outlet" ...When the air discharge unit is used.

●Up/Down adjustment when cooling  
 Keep the horizontal flaps of discharge grille at horizontal position.

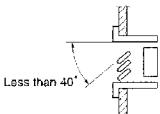
**Caution**  
 1. When you set the flaps downward, keep all the horizontal flaps same direction as shown below.  
 Never set the flaps with sharp bend to disturb the air flow, which may cause the condensation on the discharge grille.

Horizontal flaps

Horizontal flaps

2. Keep the horizontal flap to a 40° angle or less. If the flaps are set to a 40° angle or more, it may cause the condensation on the grille.

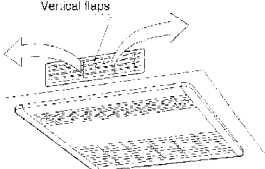
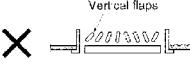
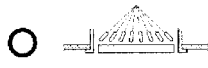
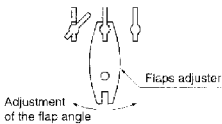


Less than 40°

●Up/Down adjustment when heating  
 Set the horizontal flaps of the discharge grille downward.

●Right/Left adjustment  
 Adjust the vertical flaps of the discharge grille to the right and left by the flap adjuster (included in the kit) in order to have an appropriate distribution of the room temperature.

**Caution**  
 When you adjust the vertical flaps to the right and left side, adjust the flaps as shown below. If you set the flaps with a sharp bend and it disturbs the air flow, it may cause the condensation of the discharge grille.

Vertical flaps

Vertical flaps

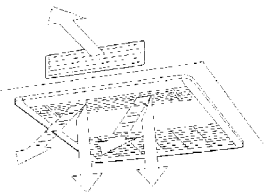
Adjustment of the flap angle

Flaps adjuster

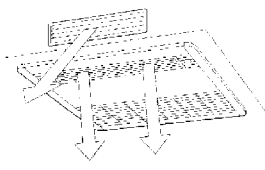
In case of "Vertical air outlet" ...When the air discharge unit is used.

●Up/Down adjustment for cooling operation  
 For "Horizontal air outlet" refer to the above and adjust the flaps Up/Down of the front discharge grille.  
 For "Vertical air outlet" refer to the operation manual of the indoor unit for "Adjustment of air direction by remote control".

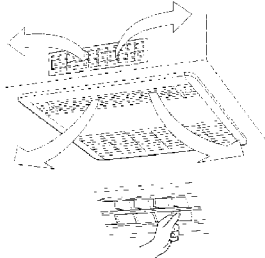
**Caution**  
 When the unit is operated for a long period of time in high humid place, it may cause the condensation on the panel. In this case, set the flaps of the discharge grille downward or swing the flaps.



●Up/Down adjustment for heating operation  
 For "Horizontal air outlet" refer to the above and adjust the flaps Up/Down of the front discharge grille.  
 For "Vertical air outlet" refer to the operation manual of the indoor unit for "Adjustment of the direction of the air flow by remote controller".



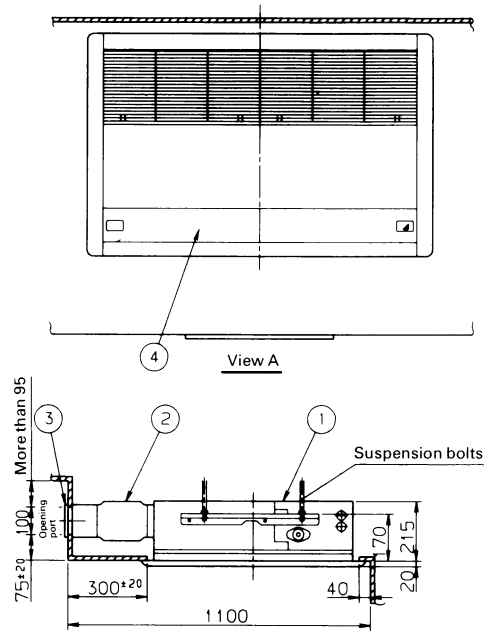
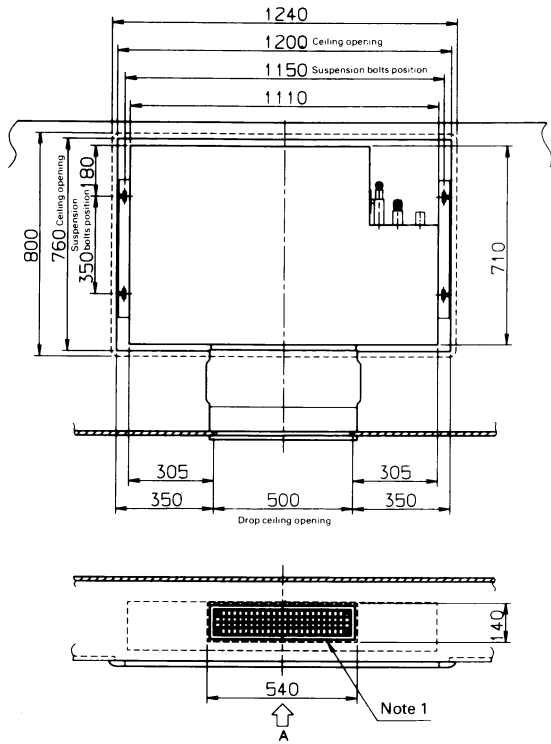
●Right/Left adjustment for heating operation  
 For "Horizontal air outlet" refer to the above and adjust the flaps Right/Left of the front discharge grille.  
 For "Vertical air outlet" adjust the vertical flaps of the discharge grille to Right/Left to obtain an appropriate distribution of the room temperature.



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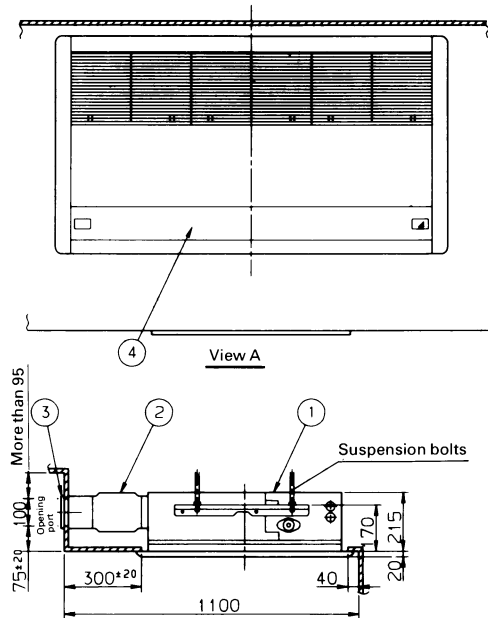
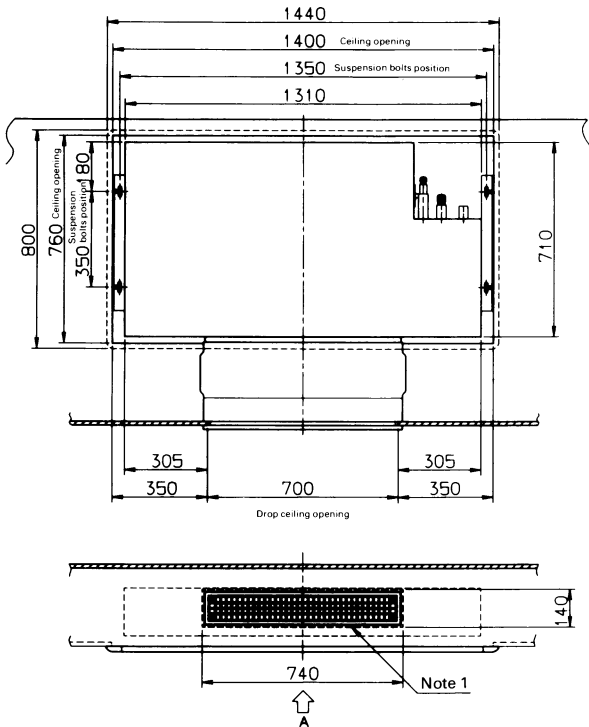
**Air Discharge Blind Panel (KDBJ52F56W) + Discharge Grille (KDGJ52F56W) + Flexible Duct (KFDJ52FA56) + Ceiling Mounted Cassette Corner Type (for Indoor Unit 25 ~ 40 Class)**



Note: 1. Do not obstruct around the drop ceiling opening.

4	Air discharge blind panel	
3	Discharge grille	
2	Flexible duct	
1	Indoor unit	
Number	Name	Description

**Air Discharge Blind Panel (KDBJ52F80W) + Air Discharge Grille (KDGJ52F80W) + Flexible Duct (KFDJ52FA80) + Ceiling Mounted Cassette Corner Type (for Indoor Unit 63 Class)**

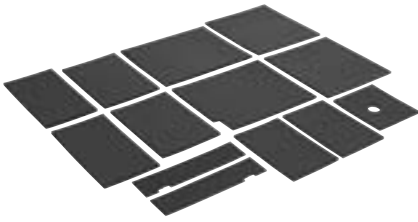


Note: 1. Do not obstruct around the drop ceiling opening.

4	Air discharge blind panel	
3	Discharge grille	
2	Flexible duct	
1	Indoor unit	
Number	Name	Description

# 5. FXD(Q) - Slim Ceiling Mounted Duct Type -

## 5.1 KDT25N32-50-63 — Installation Kit for High Humidity



**Caution**

- This kit can be installed to the Ceiling mounted Built-in Type Air Conditioners, <Slim duct type>
- When the Installation box for adapter PCB(KPP1B101) is used together, mount this kit before installation box.
- It is recommended to mount this kit before installing the indoor unit.

**Combination table**

		Kit name		
The indoor unit model applied	KDT25N32	KDT25N50	KDT25N63	
Room Air Conditioners	CDK(X)D(S)25-35EAV(A)(T)	CDK(X)D(S)25-35-50C(D)VM(A)(T)	CDK(X)D(S)60C(D)VM(A)(T)	
VRV	FXD(Q)20-25-32PVE(T)(5)	FXD(Q)20-25-32-40-50 M(N)VE(T)(5)	FXD(Q)63 M(N)VE(T)(5)	
		FXDQ20-25-32-40-50NAVE	FXDQ63NAVE	

**Details of parts**

Designation	① Top plate insulation (T-1)	② Top plate insulation (T-2)	③ Side plate insulation (S-1)	④ Side plate insulation (S-2)
Shape				
Kit name A	KDT25N32 700 KDT25N50 900 KDT25N63 1100	KDT25N32 700 KDT25N50 900 KDT25N63 1100	KDT25N32 700 KDT25N50 900 KDT25N63 1100	KDT25N32 700 KDT25N50 900 KDT25N63 1100
Number of pieces	1 pc.	1 pc.	2 pcs.	1 pc.
Designation	⑤ Bottom plate insulation (B-1)	⑥ Chamber cover insulation (C-1)		
Shape				
Kit name A	KDT25N32 704 KDT25N50 904 KDT25N63 1104	KDT25N32 621 KDT25N50 821 KDT25N63 1021		
Number of pieces	1 pc.	1 pc.		
Designation	⑦ Hanger (right) insulation (H-1)	⑧ Hanger (left) insulation (H-2)	⑨ Installation manual	
Shape				(This instruction)
Number of pieces	1 pc.	1 pc.	1 pc.	

**① How to attach** When moving the unit at or after opening, hold the unit by the hanger brackets. Do not apply force to the refrigerant piping, drain piping or flange parts.

- <Procedure> Stick the insulations carefully according to the following procedures and do not make a gap between the adjacent thermal insulations.
- (1) Stick the top plate insulation (T-1), (T-2) to the indoor unit top plate.
  - (2) Cut off the side plate insulation (S-1) following the score. (See the right figure)
  - (3) Stick the side plate insulation (S-1) to the indoor unit right side plate.
  - (4) Stick the side plate insulation (S-1) to the indoor unit left side plate without cutting off the area surrounded by the score.
  - (5) Stick the side plate insulation (S-2) to the indoor unit left side plate.
  - (6) Stick the bottom plate insulation (B-1) to the indoor unit bottom plate.
  - (7) Stick the chamber cover insulation (C-1) to the indoor unit chamber cover.
  - (8) Stick the hanger (left) insulation (H-2) and the hanger (right) insulation (H-1) respectively to the left and right hangers respectively. (See the right figure for the sticking reference.)

**Cut off the area shown with oblique lines and throw it away.**

