# Daikin Air Conditioners Fresh Air Intake Kit Installation manual

KDDQ55C140

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

#### **△**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 abnomality during the trial operation.

# Combination table

Kit name	Applicable indoor units					
KDDQ55C140	SPLIT	FCQ35·50·60·71·100·125·140C7VEB FCQH71·100·125·140C7VEB				
	VRV	FXFQ20·25·32·40·50·63·80·100·125P7VEB				

#### REMARKS

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner < Round-flow type >.
- Before installation, make sure the indoor unit name.
- Refer to the installation manuals for the indoor unit and the decoration panel.
- In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan.
- Be sure to installe the attached sensor assy.

#### Max flesh air intake volume table

• The maximum intake air flow volume is following table.

If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.

uetection of the indoor unit suction temperatur	e may be	arrect	cu,					_
FCQ~C7VEB	35	50	60	71	100	125	140	
Max flesh air intake volume (m³/min.)	2, 5	2, 5	2. 7	3. 2	4. 3	4. 3	4. 3	
FCQH~C7VEB	71	100	125	140				
Max flesh air intake volume (m³/min.)	4.0	4. 3	4. 3	4. 3				
FXFQ~P7VEB	20	25	32	40	50	63	80	100

FXFQ~P7VEB	20	25	32	40	50	63	80	100	125
Max flesh air intake volume (m³/min.)	2. 5	2. 5	2. 5	2, 7	3. 1	3. 5	4. 3	4. 3	4.3

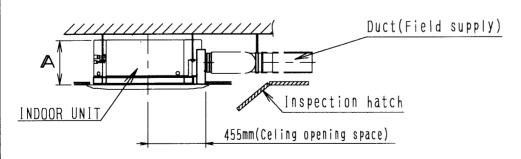
Components Check if the following parts are included with your kit. Shaded part [:::::::] is separately packed.

Name	①Suction Chamber	<pre>②Connecting Chamber (Right)</pre>	③Connecting Chamber (Teft)	4 Sealing material A	Sealing material B	⑥ Desiccant tape	⑦Screw	⊗Sensor Assy	901amp
				A	B1		M5×12		
Quantity	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	2 pcs.	4 pcs.	1 pcs.	2 pcs.

Name	① Screw (for sensor)	_	①Desiccant tape	①Desiccant tape	Sealing material	15 Desiccant tape	16 Desiccant tape	①Desiccant tape	18Thermal insulation	19Thermal insulation
Shape			Block		$\Diamond$					0 0
	M4×12		$330 \times 50$ mm	330×50mm	35×52×t15mm			10×87mm	80×260mm	
Quantity	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.

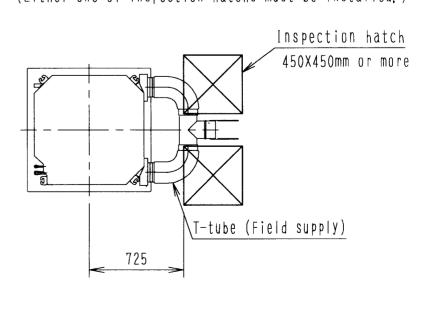
# 1 Selection of Location and Access Door





Indoor unit	<b>/</b> (mm)
FCQ35·50·60·71C7VEB FXFQ20·25·32·40·50·63P7VEB	264
FCQ100·125·140C7VEB FCQH71C7VEB FXFQ80·100P7VEB	306
FCQH100·125·140C7VEB FXFQ125P7VEB	348

2. Installe inspection hatch (Either one of inspection hatchs must be installed.)



For air outlet A

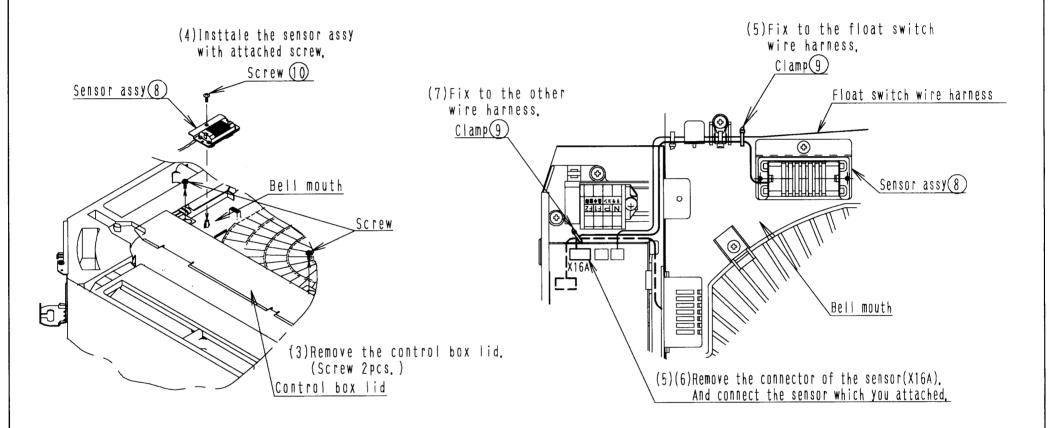
Make sure to turn off the power supply before remove the control box lid. Remove the decoration panel, when the panel is already installed. (1) Stick the sealing material A(4) and B(5) to (2) Cover the air outlet of indoor unit by the left parts. the desiccant tape (6). Peel off Sealing material B(5) Sealing material A(4) the released paper Indoor unit Air outlet A Desiccant Desiccant tape(6) Air outlet B tape(6)

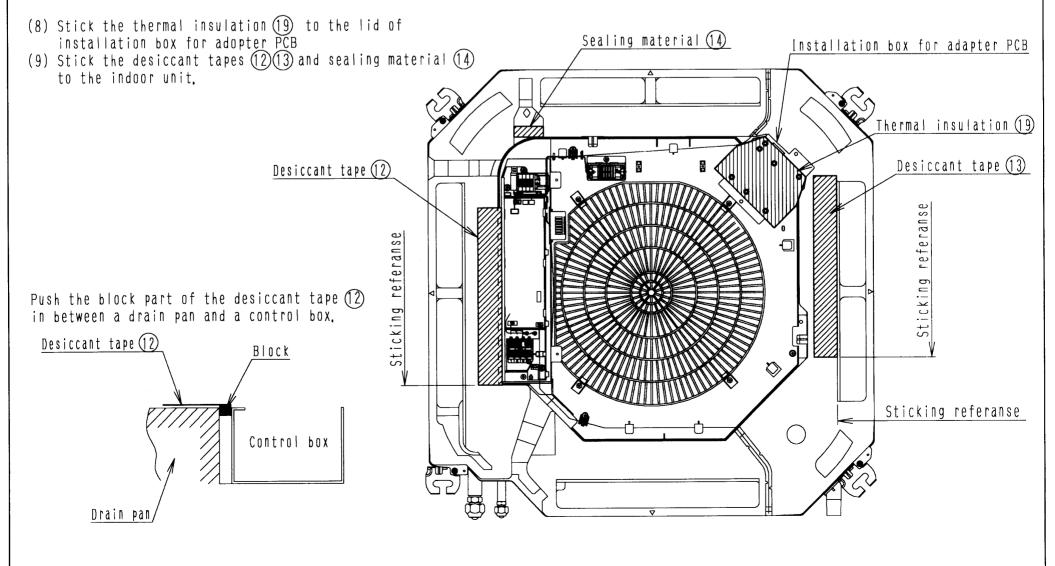
Cover the air outlet.

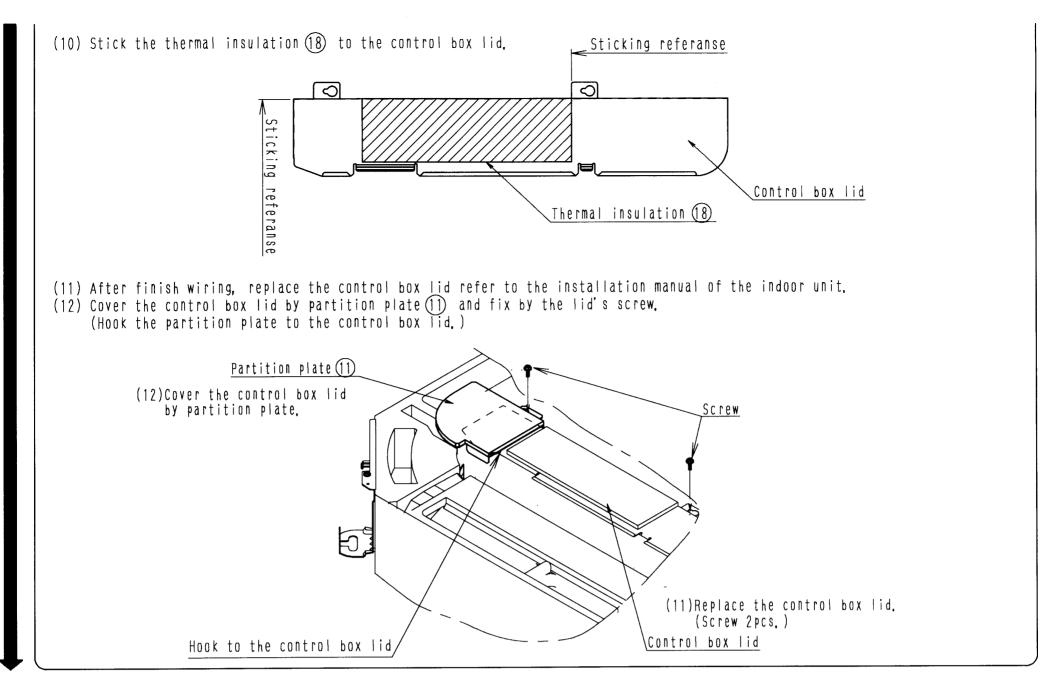
(3) Refer to the installation manual of the indoor unit, remove the control box lid of indoor unit.

For air outlet B

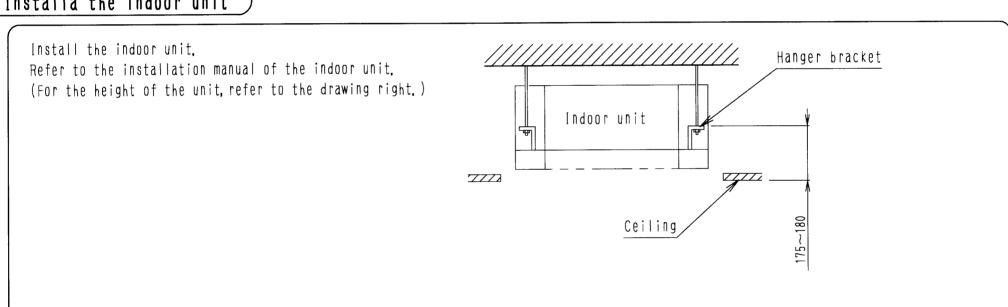
- (4) Installe the sensor assy with screw (10) to the indoor unit through the bell mouth. (Don't pinch the float switch wire harness.)
- (5) Remove the connector of the sensor(X16A) that already attached on printed circuit board.
- (6) Connect the sensor which you attached to the indoor unit, to the connector(X16).
- (7) Fix the wire harness by attached clamps(9) to the other wire harness.



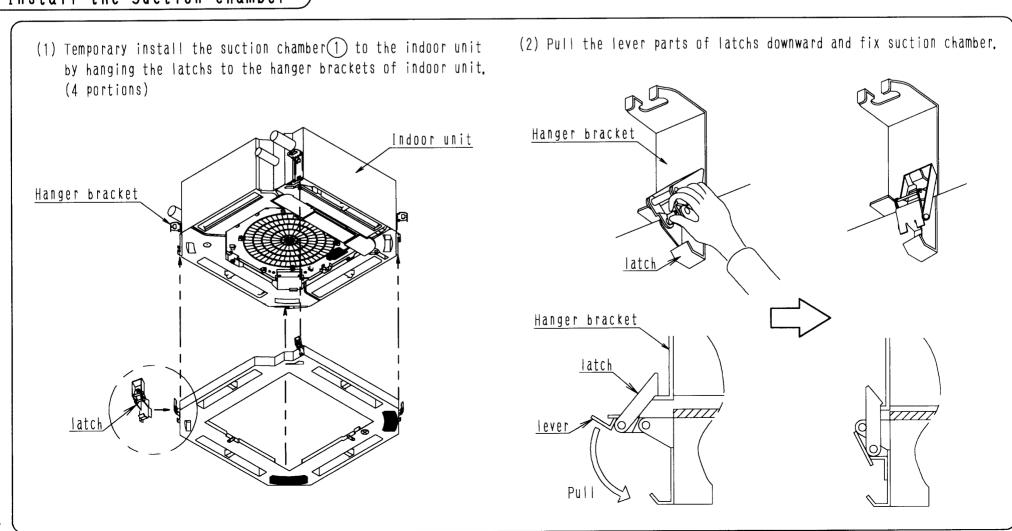




# Installa the indoor unit



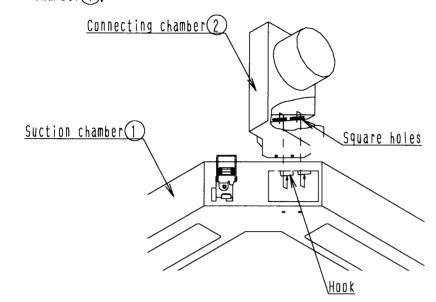
### 4 Install the Suction chamber



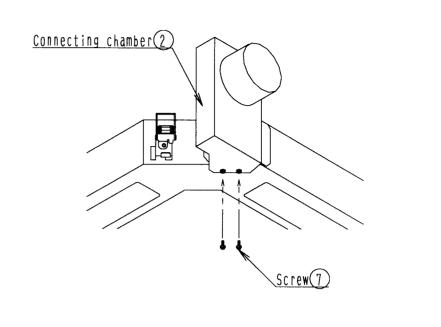
# 5 Install the connecting chamber

Drawing below is explanation of the installation method of the connecting chamber (right) (2) About the installation method of the connecting chamber (left)(3), it is the same as right.

- (1) Thread the hooks of the suction chamber (1) to the square holes of the connecting chamber (2).
  - And set the connecting chamber (2) at the side of the suction chamber(1).



(2) Fix the connecting chamber (2) with attachde screws (7).

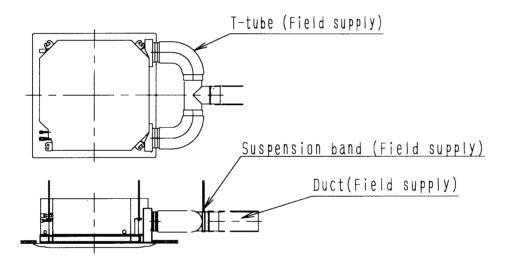


# 6 Duct connection

#### ✓ Duct : diameter150mm >

- (1) Connect duct to the connecting chamber.
- (Insert duct to the end of the connecting chamber's tube portion.)
- (2) Tie the connected portions with band and wrap with tape to prevent air leak. (3) Insulate the duct to prevent condensate.
- (4) Hang and fix the portion of a T-tube.

Otherwise, a opening is made by the dignity of a pipe between an indoor unit and suction chamber.



#### Caution

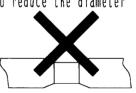
• Do not perform the following duct work. To bend excessively



To bend too many times



To reduce the diameter

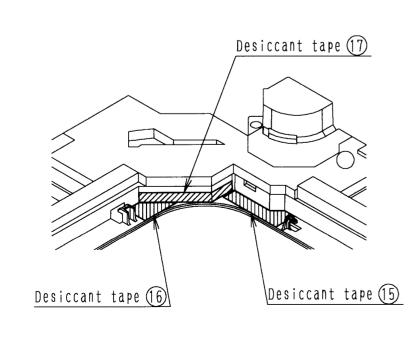


## Caution

- 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.
- At the outdoor side, install the 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.

#### Install the decoration panel

(1) Stick desiccant tapes (15)(16)(17) to the decoration panel.



- (2) Install the decoration panel.
  - Refer to the installation manual of the decoration panel.
  - Thread a wire harness of swing motor through the hole of suction chamber.

