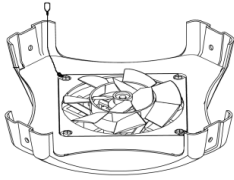
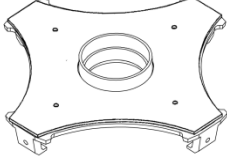
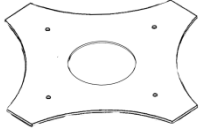
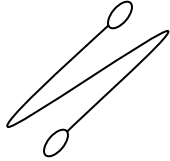




### 1 Please Confirm Parts

This set includes 1 installing manual, 2sets of parts ①~⑤ and 1 (⑥)

Part	①main part	②ceiling cover <small>(anti air leakage material attached)</small>	③anti-air leakage material
pieces	1piece	1piece	1piece
shape			*cushion type 
Part	④collapse prevention wire	⑤nylon bush rivet	⑥manufacturer sticker
pieces	1piece	4 pcs + (spare 4 pcs) total 8 pcs	1 sticker
shape			

### 2 Choice of installing location

#### Choose the correct location and receive approval from customer when installing WindWill.

- 1.The location where the cool and hot air does not circulate well.
- 2.Confirm there are no obstacles in the wind circulation and space that person does not use frequently.
- 3.The ceiling must be flat in order to prevent air leakage.
- 4.Confirm there are no air ventilators ,smoke detectors and lighting apparatus nearby.
- 5.Choose location where there is no possibility of flammable gas leakage.
- 6.Confirm there is no blockage of the ceiling attractant mouth.
- 7.The length of the duct between the WindWill and Air Conditioner should be within the approved length by the manufacturer. (max 3m is recommended in order to get better air circulation within the room)

#### <Precautions>

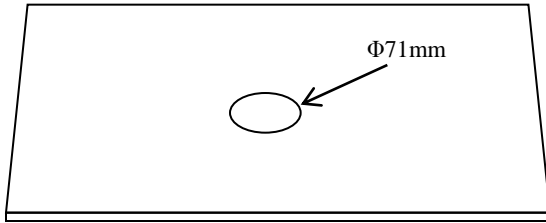
- ▶ Follow the manufacturer instructions when connecting the ducts to the air conditioner.
- ▶ Use genuine parts or equal parts for the divergence duct to circulate cool and heat air.

### 3 Preperation of installing

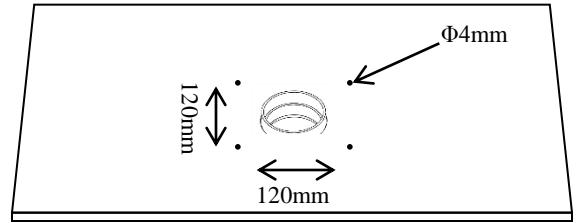
- We recommend Φ150mm thermal insulation as the duct material for installation.
- Apply condensation prevention material to the divergence duct chambers, collars and ducts.
- To prevent the leakage of the cool and heat air, please use the cushion material (3) between the ceiling material and the collar.
- Prevent the installing method to enlarge static pressure load such as breaking or bending the ducts
- It is prohibited to lean against, drop or give a shock to the main part or the ceiling cover. When ceiling cover or main part is damaged it will effect the air flow and will not work efficiently.

# 4 Instruction Manual for installation of WindWill

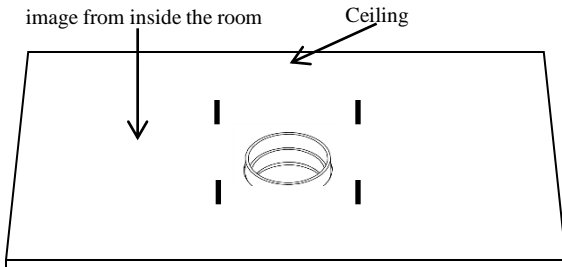
1. Make a hole of  $\Phi 71\text{mm}$  in the ceiling and fill space with caulking material when hole is wider than  $\Phi 71\text{mm}$  to prevent air leakage.



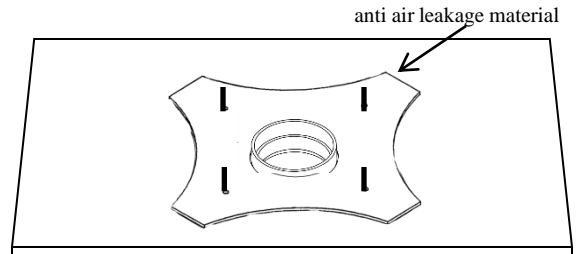
2. Insert the vent of the ceiling cover into the opening part and make holes of  $\Phi 4\text{mm}$  for the screws.



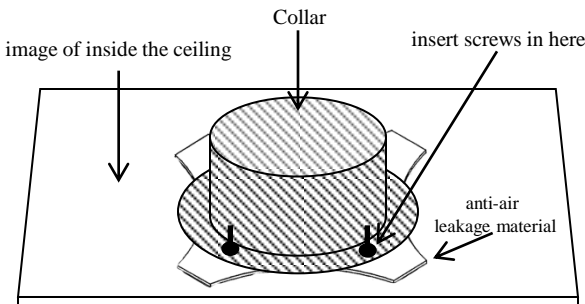
3. Insert the screws from (inside of the room) the ceiling cover side.



4. Peel off the sheet of the cushion material, confirm the opening part and 4 screws fit the holes and then paste the cushion material onto the ceiling material.



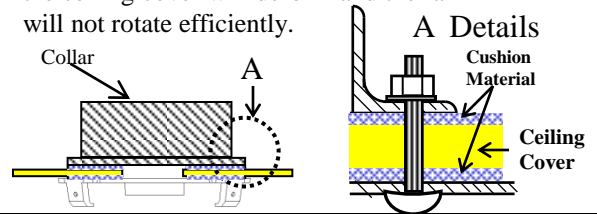
6. Make 4 holes ( $\Phi 4\text{mm}$ ) in the collar of  $\Phi 150\text{mm}$  and align the screw position when installing.



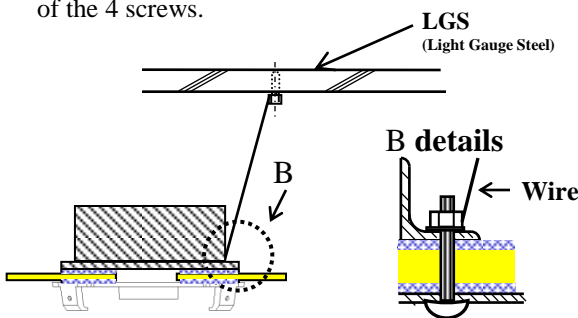
Insert the screws from (inside of the room) the ceiling. And align the screw position when installing.

### <precautions>

Tighten the screws evenly and not too tight. If the screws do not tighten evenly or are too tight, the ceiling cover will deform and the fan will not rotate efficiently.

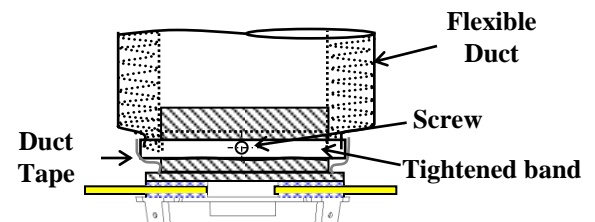


7. Connect the collapse prevention wire with the hanging metal fittings and the bolt. Then attach it to one of the 4 screws.



8. Connect the collar and the duct.

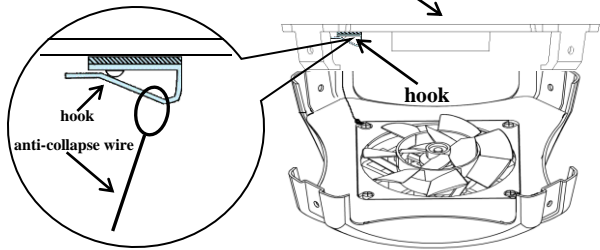
Use the tightened band, duct tape and iron screws for connecting and prevent leakage of wind. Apply condensation prevention to the collar and other parts.



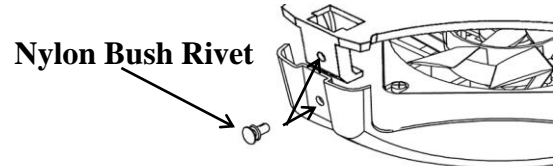
## 5 Installation of main part

**Do not forget to connect the collapse prevention wire to the hook of the ceiling cover.**

1. Hang the wire to connect the main part to the hook which is attached onto the ceiling cover



2. Fix the main part and the ceiling cover with the nylon bush rivet. Confirm the wire does not interfere with the fan when installing.

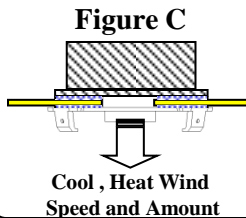


\*Insert 1 Nylon Bush Rivet per hole

## 6 Confirmation of operation

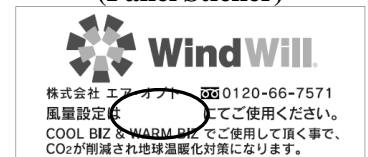
Please note that it does not work efficiently, depending on air amount/speed from the Air conditioner that blows the cool and hot air into the room.

1. Confirm that the cool and heat wind from the air conditioner is supplied to WindWill and the fan is rotating.
2. Measure the speed and amount of the wind blowing when setting the wind amount from the air conditioner. Confirm the wind amount setting of the air conditioner; whether the wind speed and amount is based on the Figure C below.



Ceiling Height	Cool and Heat Wind Speed	Cool and Heat Wind Amount
3,000mm	6.5~7.5m/s	65~75m <sup>3</sup> /h
2,700mm	6.0~7.0m/s	60~70m <sup>3</sup> /h

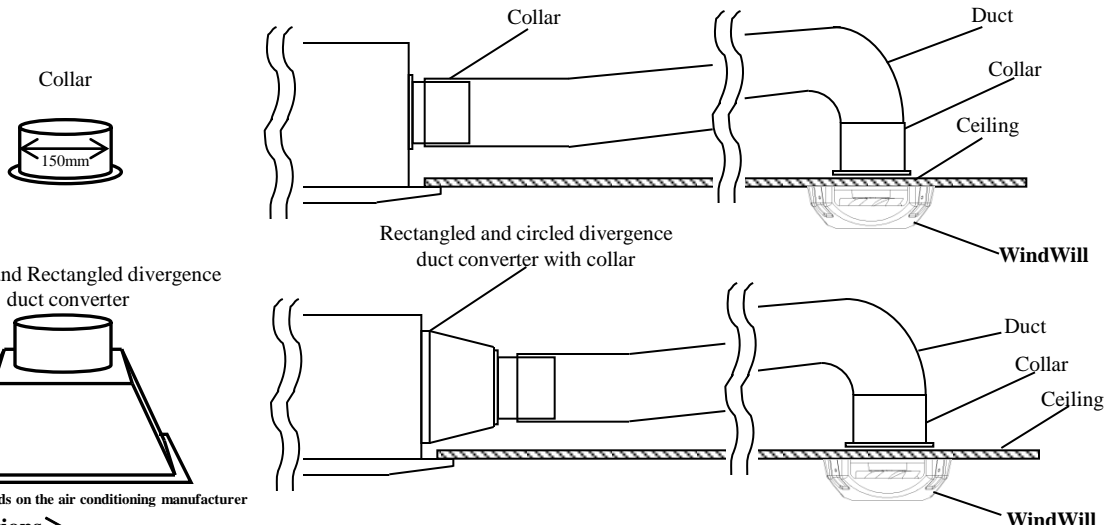
**Figure D  
(Panel Sticker)**



## 7 Divergence of Cool And Hot Air

This is the divergence image of the air conditioner embedded in the ceiling. Follow the installing manual of the manufacturer carefully.

- Diverge the cool and heat wind through the knockout opening of the embedded ceiling air conditioner. Use genuine parts or equal parts only for the divergence duct when diverging the ducts.



\*mount size depends on the air conditioning manufacturer

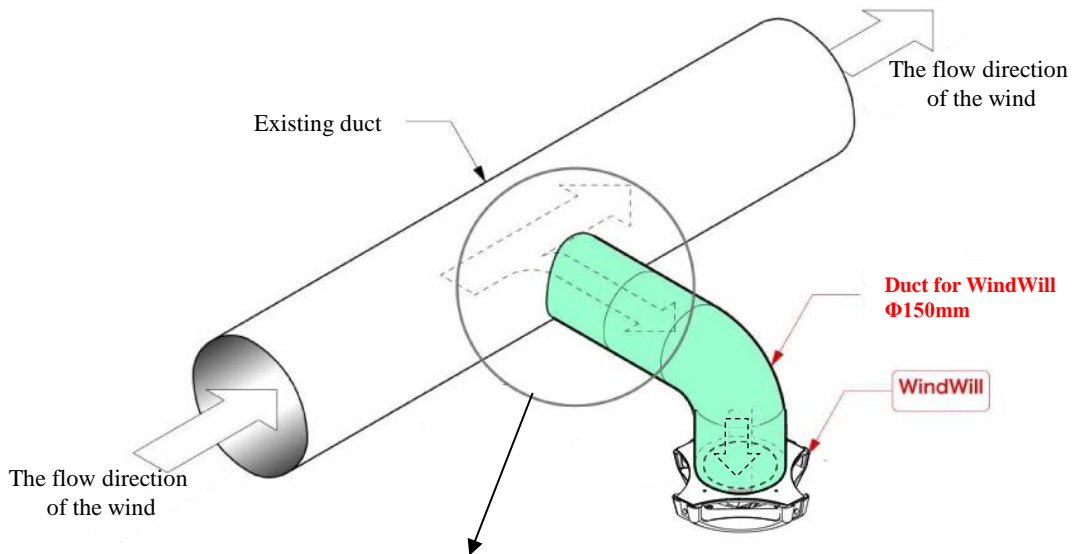
### <Precautions>

This method of diverging is an image. Please follow the manual of the manufacturer when installing the divergence duct.

## 8 Divergence image

This is the divergence image of the air conditioner using ducting for AHU, build-in, embedded in the ceiling. Follow the installing manual of the manufacturer carefully.

- Divergence from the existing pipe using ducting is as shown below. Upon divergence, countermeasure to air leakage and water condensation must be done in advance and adjustment of air volume at new outlet for WindWill is necessary in combination with existing outlet so, please do adjustment by using air dumper etc..



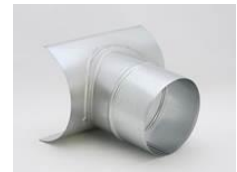
### • Duct connector's image



•45° Y type

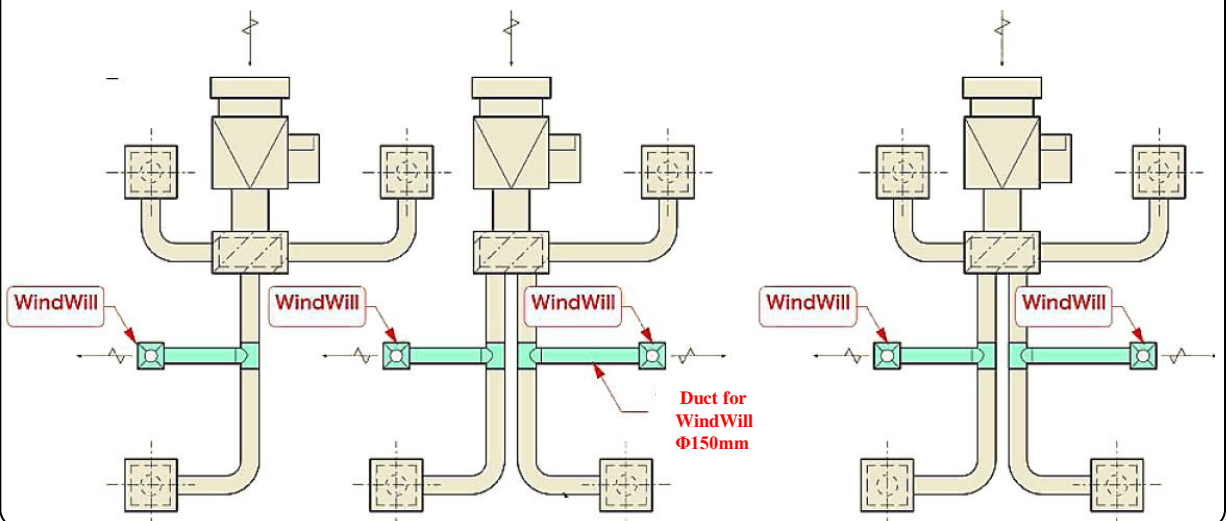


•90° T type



•others

### • Connection of WindWill to duct shall be done referring to the given drawing image

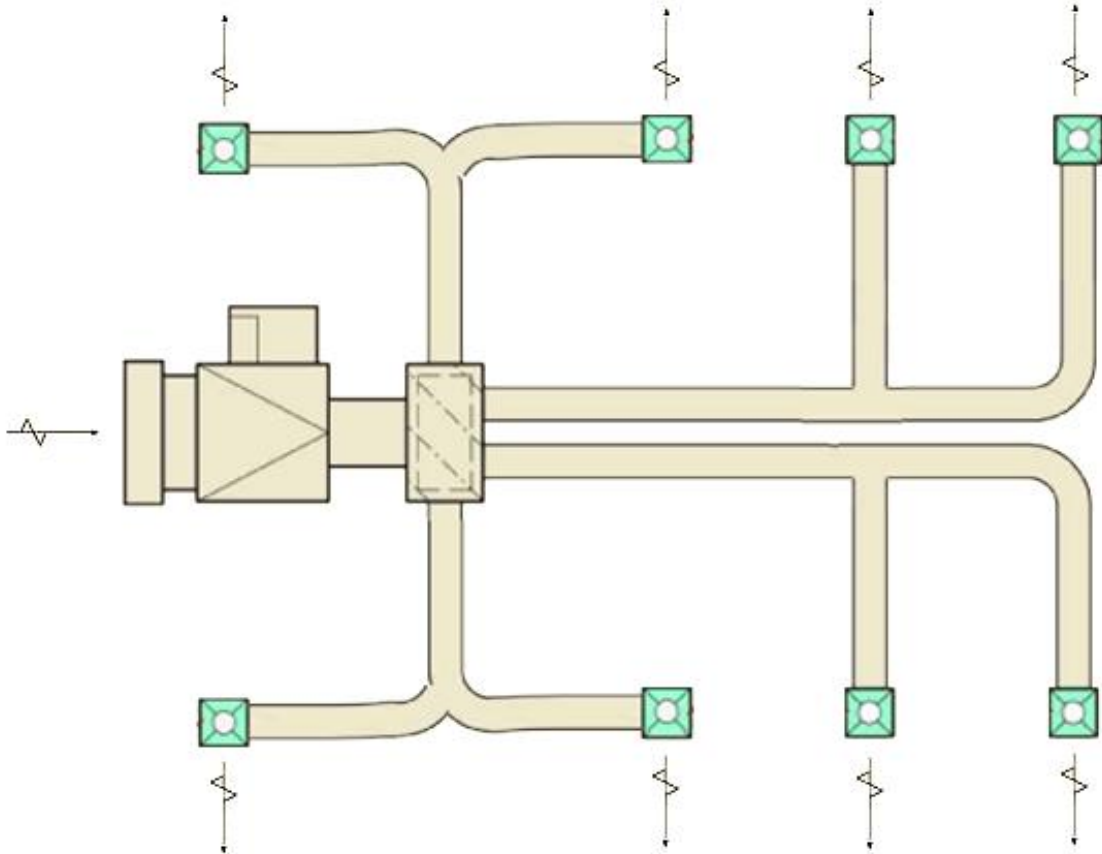


### <Precautions>

This method of diverging is an image. Please do diverging nicely meeting with actual air conditioner.

- In case of ducting type, WindWill can be used as outlet. And divergence from the current piping is possible. If you use WindWill as outlet, please follow the instruction of original facility design and drawings.

- Connection of windwill to duct shall be done referring to the given drawing image.



### <Precautions>

This method of diverging is an image. Please do diverging nicely meeting with actual air conditioner.