

INSTALLATION AND OPERATING INSTRUCTIONS

安裝使用說明書

Air Curtain 風幕機

Model No. 型號

FY-3009U1	FY-3012U1	FY-3015U1
FY-3509U1	FY-3512U1	FY-3515U1
FY-4009U1	FY-4012U1	FY-4015U1

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Thank you for purchasing this Panasonic product.

Please read these installation and operating instructions carefully before attempting to install, operate or service the Panasonic product. Please carefully read the "Installation cautions" (P.2~3) of this installation and operating instructions before installation. Failure to comply with installation and operating instructions could result in personal injury or property damage. Please explain to users how to operate and maintain the product after installation, and this booklet should be presented to users. Please retain this booklet for future reference.

感謝您選購 Panasonic 產品。

安裝、使用或維修 Panasonic 產品前，請仔細閱讀本安裝使用說明書。請仔細閱讀本安裝使用說明書的「安裝注意事項」(P.14~15) 再開始安裝。不按照安裝使用說明書操作可能會導致受傷或財產損失。安裝後，請向用戶說明如何使用及維護本產品，並將本手冊交給用戶。

請保管好本手冊以備日後參考。

Safety instructions

Please observe strictly



- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the product.
- Make sure to disconnect the power supply before cleaning the product.

The following explanations must always be observed in order to prevent harm to users or other people and prevent damage to property.

- The following displays are classified and explained to what extent harm or damage occurs when the display details are ignored and the unit in question is wrongly used.



WARNING

This indication means: Must be treated seriously that this may result in death or serious injury.



CAUTION

This indication means: Must be treated seriously that this may result in injury or property damage.

- The types of details to be observed are classified and explained in the following illustrated displays. (Below are the series of illustrated displays)



This symbol indicates the "COMPULSORY" item that must be followed without failure.



This symbol indicates the item "PROHIBITED" to do.

Installation cautions



WARNING

- Please install an all-pole switch which the contact separation is more than 3mm (Double pole switch).



Otherwise, it may cause a short circuit, thus resulting a fire.



- Do not operate the product other than the rated voltage.



Otherwise, it may damage the product or cause fire.

- The product must be grounded.



Otherwise, it may cause electric shock when there is any trouble or electric leakage.

- Wiring should be firmly connected without any loose.



Otherwise, it may cause a short circuit, thus resulting a fire.

- Installation should be done by authorized person. The product should be installed firmly.



Otherwise, the product may fall down and it may cause injury.

- Do not reconstruct this product.



Otherwise, it may cause damage to the product or injury.

Installation cautions

WARNING

■ The product must be installed tightly. Components must be installed tightly.



Otherwise, it may injury person caused by product's falling off.

■ Do not install the product as the method which is not approved in the installation and operating instructions.



Otherwise, the product any fall down and it may cause injury.

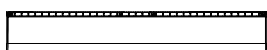
■ It's prohibited to install the product in locations such as machinery, chemical plants or research facilities where it will be exposed to noxious gases containing acids, alkali, organic solvents, paint fumes, etc., to gases containing corrosive ingredients.



It could cause gas poisoning, corrosion and degradation of product that results in a fire.

■ It's prohibited to install in the following locations.

Do not install the product where there is steam.



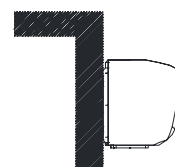
Otherwise, it may cause a short circuit, thus resulting in a fire.

Location with combustible gas or emission of exhaust gas.



Otherwise, it may cause a short circuit, thus resulting in a fire.

Do not install the product out of the window and wall.



Indoor Outdoor



Otherwise, the product may get wet in the rain and cause a short circuit.

CAUTION

■ Product must be installed by 2 persons.



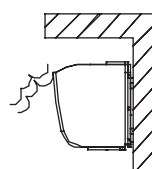
Otherwise, the product may fall down and it may cause injury.

■ The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.



Otherwise, the product may fall down and it may cause injury.

■ The product must be mounted on a building which is strong enough. To ensure it can bear over 5 times of product weight. The building must be reinforced if its strength can not be ensured.



Otherwise, the product may fall down and it may cause injury.







■ Please wear the gloves when installing the product.



Otherwise, it may cause damage.

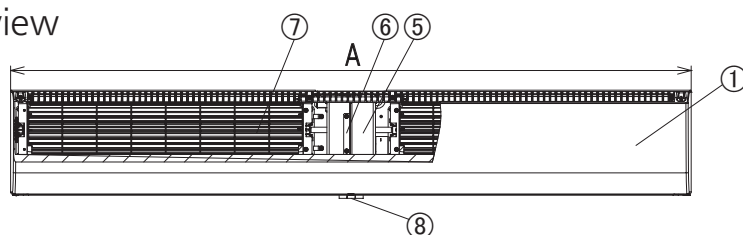
Supplied accessories

The following attachments are enclosed in the packing box of product. Be sure to check if they are complete after unpacking, and if anything is missed, contact our After-Sales Service Center or the dealer.

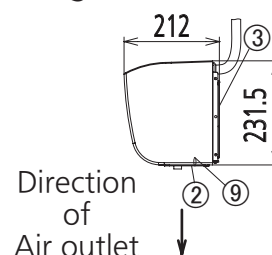
No.	Drawing	Name	Quantity	No.	Drawing	Name	Quantity
①		Washer	6	④		Bolt M8×60L	6
②		Spring washer	6	⑤		Installation and operating instructions	1
③		Nut (M8)	6	⑥		Service parts list	1

Parts name and dimensions

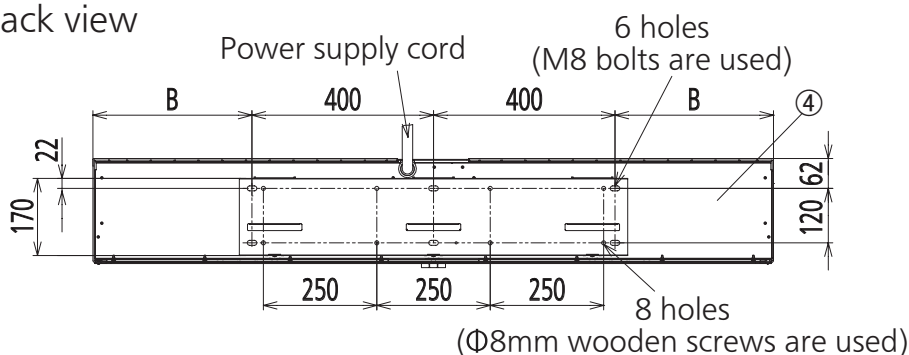
■ Front view



■ Right view



■ Back view



Model No.	A	B
FY-3009U1, FY-3509U1, FY-4009U1	900	50
FY-3012U1, FY-3512U1, FY-4012U1	1200	200
FY-3015U1, FY-3515U1, FY-4015U1	1500	350

No.	Part name	Classification	No.	Part name	Classification
①	Front panel	Resin ABS	⑥	Motor support	Steel SGCC
②	Air outlet	Resin ABS	⑦	Cross-flow impeller	Steel plate + ResinAS + Glass fiber
③	Mounting plate	Steel SGCC	⑧	Push-button switch	Assembly part
④	Back panel	Steel SGCC	⑨	Guide plate	Resin ABS
⑤	Motor	Assembly part			

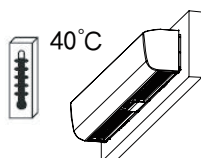
Notice

Please refer to the table above to recycle the materials as much as possible when discarding this product.

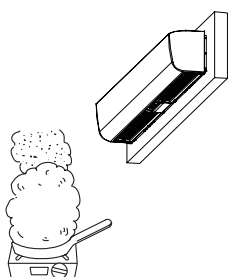
Requirement of installation

■ Please observe the following requirement. Otherwise, it may cause the product aging and breakdown.

The applicable ambient temperature of this product is in the range of $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$.



Do not install the product where it is exposed to oil fumes.



It's prohibited to install in the uneven surface. (Flatness shall be 3mm below.)

Distortion results in reducing the separation performance.

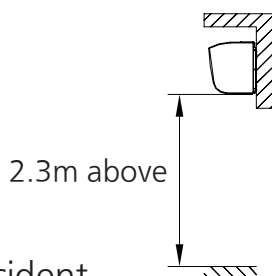
Locations where freezing could happen.

Otherwise, it may damage the product or cause fire.

Do not install the product in the place with many dust.

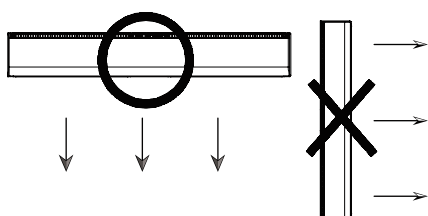
Impeller deformation may be caused by sand and dust piling up, which may affect the performance.

■ The lowest surface of this product should be installed above 2.3m from the floor after installation.



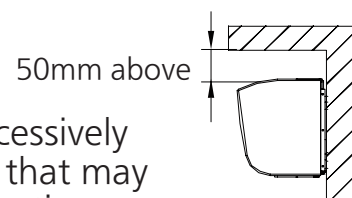
Avoiding any accident.

■ Please install the product horizontally, don't vertically install the product.



It could affect the performance of bearing.

■ The distance between product and ceiling must be 50mm above.



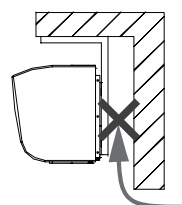
The ceiling is excessively close to air inlet that may reduce the separation performance.

■ Ensure the space among products is 20~40mm when multiple products operate in row.



Easy for installation.

■ Please block the clearance between wall and product.



Prevent product from sucking in outdoor air from clearances.

How to install

1. Fix the mounting plate

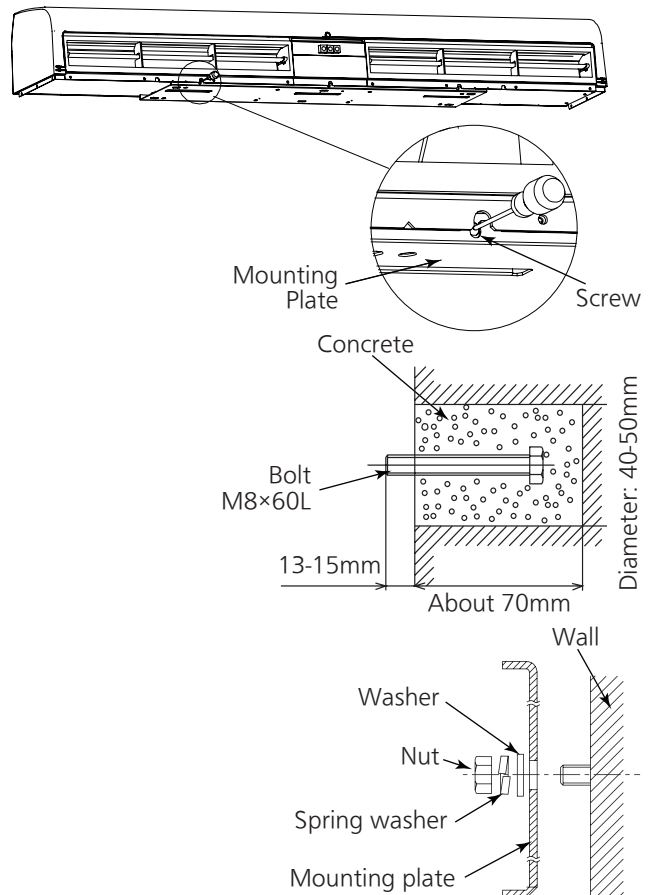
■ Mounting on concrete wall.

1. Remove mounting plate from product.
Taking the mounting plate by removing the 3 screws.
2. Firmly fix the bolts in the proper position.
 - Determine the position on the wall and drill into the wall.
 - Fit the bolts into the holes.
 - Fill the holes with concrete.
 - Install the mounting plate and check if it's secured when the concrete solidifies.

Notice

Distance of bolt head away from wall should be 13~15mm.

3. Fix the mounting plate with washers, spring washers and nuts.

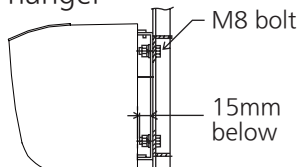


CAUTION

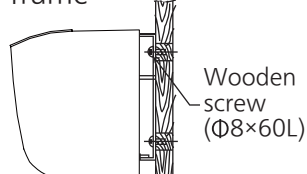
- Please use the mounting plate provided with product to avoid the dropping caused by insufficient strength.

■ Other installation methods

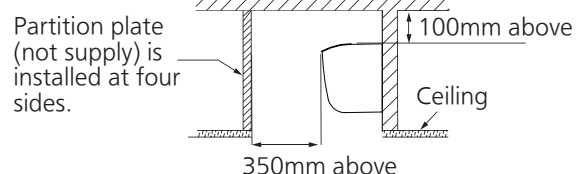
Mounting on steel hanger



Mounting on wooden frame



Mounting inside the ceiling

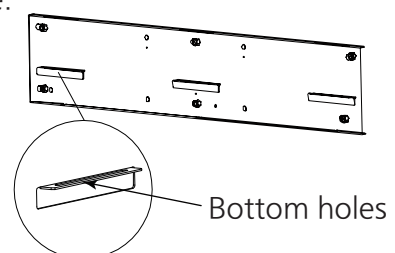
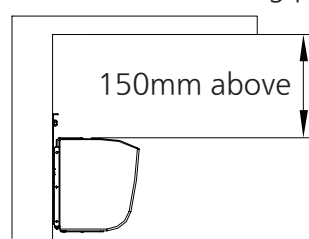
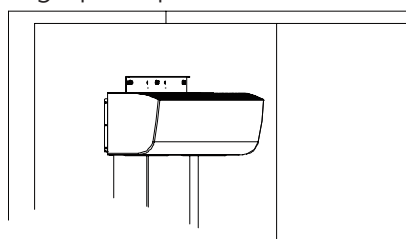


Notice

1. It's prohibited to install the product on hollow wall, otherwise it may produce noises.
 2. Conduct the necessary reinforcement, depending on the particular condition to avoid noise resonance and vibration.
1. The inside space of ceiling should exceed the dimensions as indicated above to ensure the space of air inlet, please select the larger model if space of air inlet can't be reserved.
 2. Don't place the substances near the air inlet or outlet grille (include the grille). It could affect the performance.

2. Preparation before wiring (Carry out this step if the distance between top face of product and ceiling is less than 150mm.)

Pre-hang up the product into the bottom holes of mounting plate.

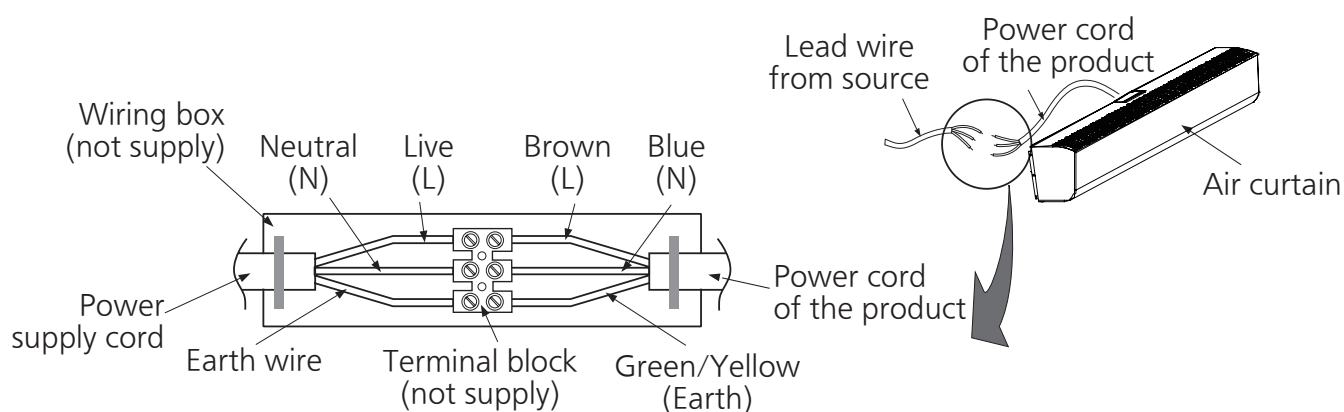


How to install

3. Wiring

WARNING

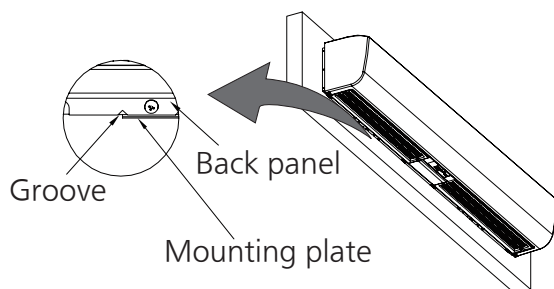
- Wiring is required to follow the local wiring regulations. Otherwise, it may cause fire.
- Please select 60227 IEC 53 ordinary polyvinyl chloride sheathed cord. Nominal cross-sectional area of conductors is $3 \times 1.0 \text{ mm}^2$. Otherwise, it may cause fire.
- The product is not provided with Double pole switch and leakage protection switch. Please purchase them in market.
- It is required to use terminal (not supply) that complies IEC 60998 and wiring box (not supply) that complies local regulation.
- Wiring should be firmly connected without any loose.



- Connect the power cord (included earth) of product to lead wire in accordance with the wiring diagram.
- Make sure all connections are fastened firmly after finishing wiring.

4. Installation of product

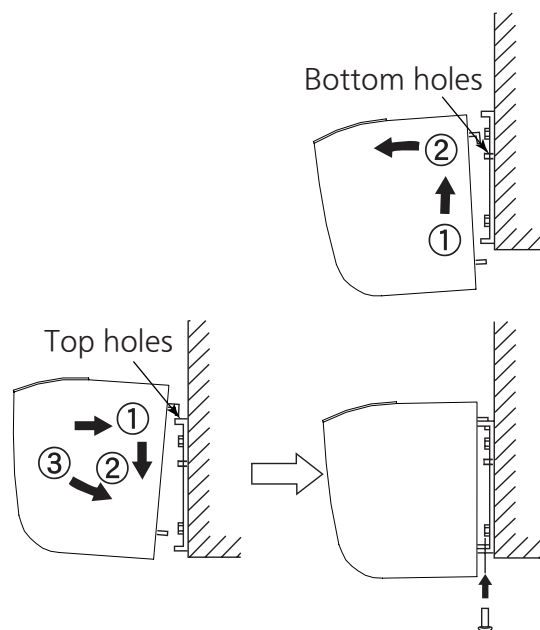
1. Remove the product from the bottom holes.
2. Fixing the product.
Align the groove of back panel with both sides of mounting plate. Fit the hooks into the top holes of mounting plate.



3. Fasten the screws. (3 places)

Notice

The torque is suggested to be $1.2 \text{ N} \cdot \text{m}$.



Multiple products operate in group

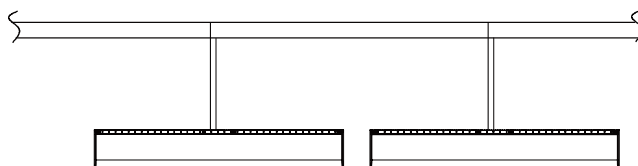


WARNING

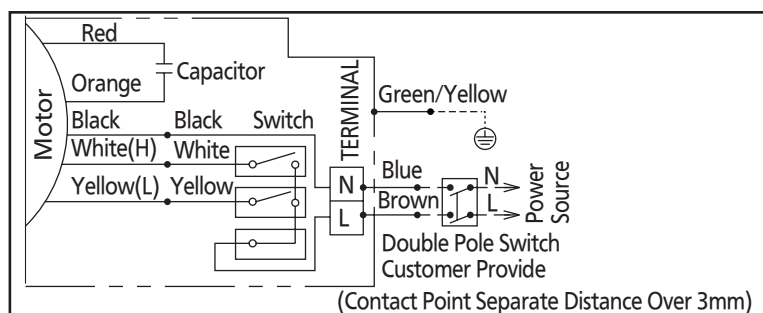
- Please select the switch of whose capacity has 1.2~1.5 times total current, when multiple products operate.
- Earth leakage breaker protector should be equipped, otherwise it may cause an electrical shock.
- The number of interlocking operation is not more than 6.

- Please purchase necessary parts following with local electrical requirements, except the power supply cord.

Power supply cord

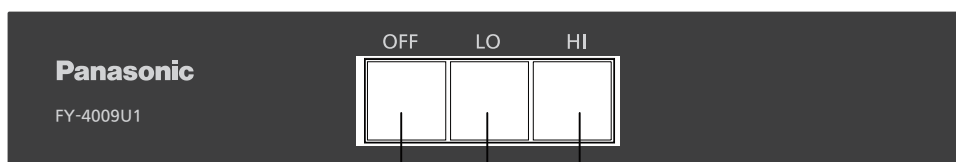


Wiring diagram



Operation methods

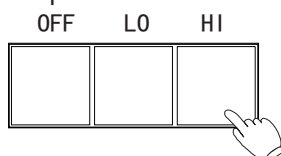
Operation of Control panel



※Representative model

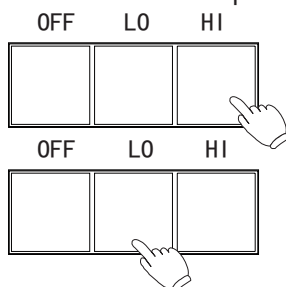
OFF LOW HIGH

1 Start to operate



Press "HI" or "LO" button to start the product as shown in left figure.

2 Select the mode of operation

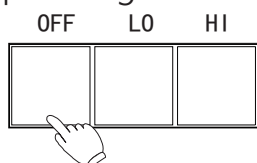


Press "HI" button if high air velocity is required.

Press "LO" button if quiet and low velocity is required.

Operation methods

3 Stop operating



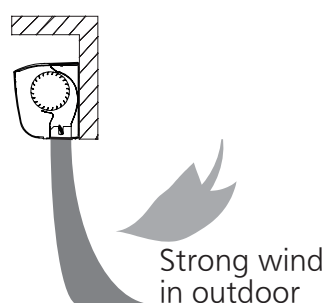
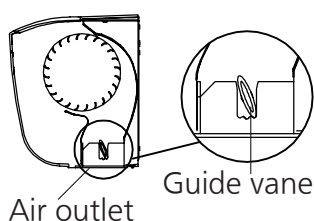
Press "OFF" button to stop the product.

Notice

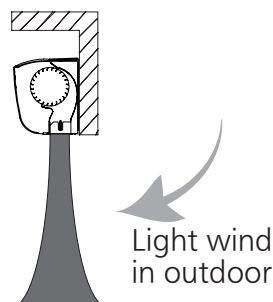
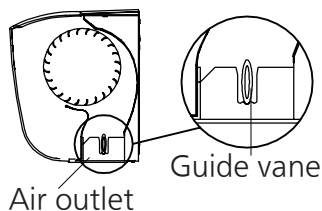
The product is in stand-by mode after pressing the "OFF", it's still connected to the power.

■ Guide vane in air outlet can be adjusted according to service environment to reach the ideal separation performance.

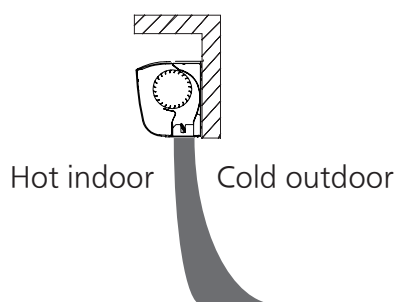
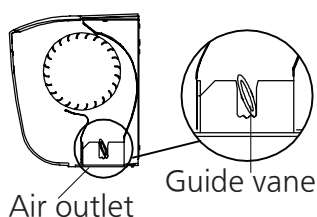
1 While strong wind in outdoor



2 While light wind in outdoor

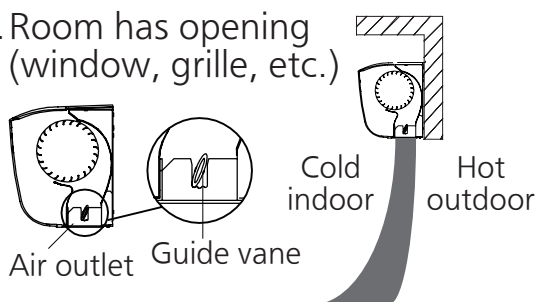


3 Heating

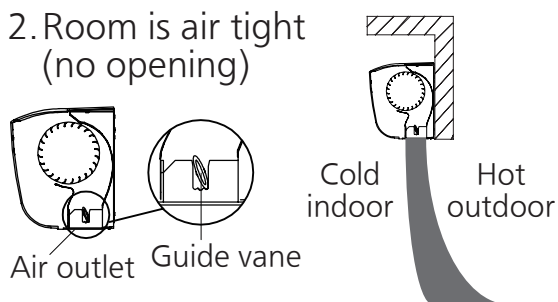


4 Cooling

1. Room has opening (window, grille, etc.)



2. Room is air tight (no opening)



Routine maintenance



WARNING

- Make sure to disconnect power supply before cleaning product.



Otherwise, the product might operate with the possibility of electric shock or injury.



- Please contact entrusted distributor where you purchased or qualified persons to service the product.



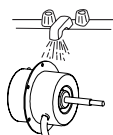
Otherwise, it may damage the product or cause fire.

- It's prohibited to insert fingers or sticks into the product, air inlet or outlet.



Impeller at high speed rotation may cause injuries.

- Do not let water flow into the motor.



Otherwise, it may damage the product or cause fire.

- If you will not use this product any more, remove the product.



Otherwise, the product may fall down and it may cause injury.

- Once flammable gas leaks, do not start any function of this product.



Otherwise, it may generate sparkle and this leads to explosion.

- Don't turn on or off the power with wet hands.



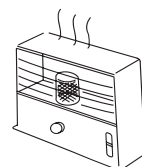
It may cause a electrical shock.

- Immediately stop to wait for repair if abnormalities happen (noise, vibration, smell).



It may cause the unexpected accidents.

- It's prohibited to place the burning appliances in a position where product directly blows.



It may result in carbon monoxide poisoning caused by incomplete combustion.



CAUTION

- 2 persons are required to conduct the maintenance.



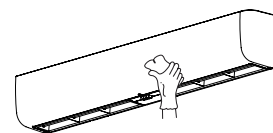
Otherwise, the product may fall down and it may cause injury.

- It's forbidden to hang anything on the product.



Product may drop due to the increased weight.

- Please wear the gloves when cleaning the product.



Otherwise, it may cause damage.

- Do not directly spray this product with water and other liquids.



Otherwise, it may cause short circuit or electric shock.

Routine maintenance



CAUTION

- Eyes should not be faced to the air outlet (specially when the product starts up).



The blowing substance could damage your eyes.

- Please don't place the substances near to the air outlet or inlet grille.



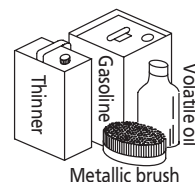
It may result in personal injuries due to blowing out or sucking in.

- The strong air from air curtain may cause the sand and dust.



It may result in personal injuries.

- Never use petrol, benzene, thinner or any other such chemicals for cleaning the product.

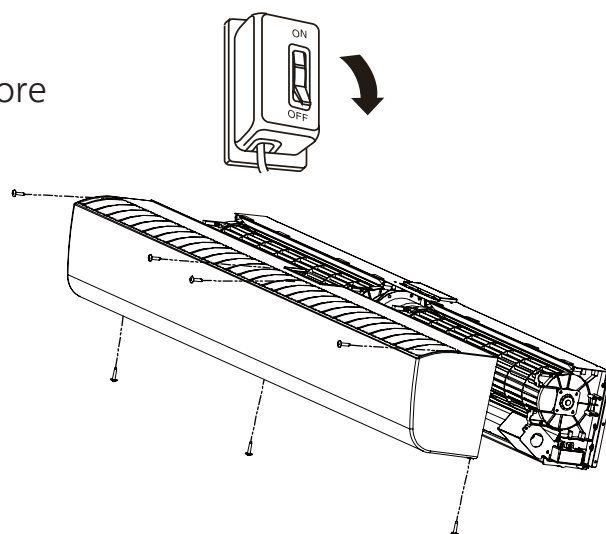


Otherwise, dropping caused by corrosion of product, which may result in personal injuries.

Notice

- Make sure to disconnect power supply before cleaning product.

- Disassembly of part
This part can be easily taken out by removal of 7 screws as indicated in the right figure.



Trouble shooting

Check according to the following table and take measures. If the product still does not work normally, disconnect the power and contact After-Sale Service Center or the dealer.

	Condition	1st Possible reason	2nd Possible reason	3rd Possible reason
Primary Period	Can't operate.	Check the voltage.	Wiring is not correct. (☞ P7)	
	With large noise or significant vibration.	Installed not properly. (☞ P6~P7)		
	Poor separation performance.	Not suitable model.	Guide vane is not in proper position. (☞ P9)	Product is installed vertically.
During operation	Can't operate.	Wiring is not fixed.	Double pole switch became off.	
	Poor separation performance.	Air inlet grille is blocked.		
	With large noise or significant vibration.	Dust piles up in impeller.	Any other substances fell into the product.	Motor runs abnormally.

Specifications

Voltage: 1 phase 220V Frequency: 50Hz

Model	Outlet Velocity m/s		Power Consumption W		Current A		Noise dB(A)		Air Volume m³/h		Insulation Class	Length mm	Weight kg	Installation height (m)
	High	Low	High	Low	High	Low	High	Low	High	Low				
FY-3009U1	10.5	8.5	76	70	0.35	0.32	48.5	45	1100	920	B	900	12	3.0
FY-3012U1	9.5	8	94	85	0.43	0.4	48.5	44.5	1400	1270	B	1200	14.5	3.0
FY-3015U1	10.5	9.5	131	110	0.59	0.5	51.5	48	2000	1800	B	1500	18	3.0
FY-3509U1	11	9	95	85	0.41	0.39	51	49	1150	1000	B	900	12	3.5
FY-3512U1	10.5	8.5	114	100	0.49	0.46	49	46	1550	1300	B	1200	14.5	3.5
FY-3515U1	11	9	146	110	0.67	0.52	52	49	1800	1500	B	1500	18	3.5
FY-4009U1	12	10	110	94	0.5	0.43	54.5	51	1340	1190	B	900	12.5	4.0
FY-4012U1	12	10	126	105	0.59	0.49	52.5	48.5	1700	1530	B	1200	15.5	4.0
FY-4015U1	13	10	177	147	0.81	0.68	56	52	2450	2080	F	1500	18	4.0

Voltage: 1 phase 240V Frequency: 50Hz

Model	Outlet Velocity m/s		Power Consumption W		Current A		Noise dB(A)		Air Volume m³/h		Insulation Class	Length mm	Weight kg	Installation height (m)
	High	Low	High	Low	High	Low	High	Low	High	Low				
FY-3009U1	10.5	9	86	80	0.37	0.35	50.5	47.5	1150	960	B	900	12	3.0
FY-3012U1	10	8.5	107	95	0.46	0.43	50.5	47	1500	1320	B	1200	14.5	3.0
FY-3015U1	11	10	145	115	0.6	0.5	53.5	50.5	2100	1850	B	1500	18	3.0
FY-3509U1	11.5	9.5	99	96	0.42	0.4	54	51	1200	1050	B	900	12	3.5
FY-3512U1	11	9	122	112	0.51	0.47	51	48	1650	1400	B	1200	14.5	3.5
FY-3515U1	11.5	9.5	161	125	0.68	0.54	54	51	1800	1600	B	1500	18	3.5
FY-4009U1	12.5	10.5	122	100	0.51	0.43	56.5	53.5	1360	1200	B	900	12.5	4.0
FY-4012U1	12.5	10.5	139	110	0.6	0.49	54.5	51	1800	1580	B	1200	15.5	4.0
FY-4015U1	13.5	10.5	190	160	0.86	0.68	58	54.5	2500	2050	F	1500	18	4.0

Notice

1. The parameters as shown in above table are measured at ambient temperature of 20°C.
2. The noise value is measured 1.5m away from the product at angle of 45° below the air outlet.
3. Because the above-mentioned velocity is measured in test laboratory where it's empty, without air flow and obstacle, after actual installation the velocity may vary depending on different service environment.
4. Outlet velocity is the maximum value.

安全指示

請嚴格遵守



- 電源線如有損壞，須由製造商、其服務代理或具有類似資格的人士進行更換。
- 本產品不適合有殘疾、智障或精神障礙的人士或缺乏經驗常識者（包括兒童）使用，除非在負責其安全的人士的監督或指導下使用。
- 兒童應有人監督，以確保他們不會將本產品當作玩具。
- 清潔本產品前，請確保先斷開電源。

為了防止給用戶或他人造成傷害及防止對財產造成破壞，須始終遵守以下說明。

■ 下列標誌是按照無視標誌詳情及不當使用有關裝置時造成的傷害或損失分類和解釋。



警告

該標誌表示：不遵守的話可能會造成傷亡。



注意

該標誌表示：不遵守的話可能會造成受傷或財產損失。

■ 需遵守的各類詳情已按下圖所示的標誌分類解釋。（標誌說明如下）



此標誌表示必須遵守的「強制」事項。



此標誌表示「禁止」事項。

安裝注意事項



警告

■ 請安裝一個觸點間隙超過 3mm 的全極開關（雙極開關）。



否則可能會導致短路，進而引發火警。



■ 請勿在額定電壓以外使用本產品。



否則可能會損壞本產品或引發火警。

■ 本產品必須接地。



否則在出現任何故障或漏電時，可能會導致觸電。

■ 電線必須連接牢固，不能有絲毫鬆動。



否則可能會導致短路，進而引發火警。

■ 安裝應由獲授權人士完成。本產品應安裝牢固。



否則產品可能會掉落，進而導致受傷。

■ 請勿對本產品進行改造。




否則可能會損壞本產品或導致受傷。


安裝注意事項

警告


- 本產品必須安裝牢固。
部件必須安裝牢固。

 否則可能會掉落砸傷他人。

- 請勿按照非安裝使用說明書認可的方法安裝本產品。

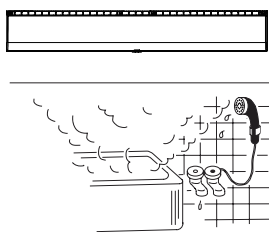
 否則產品可能會掉落，進而導致受傷。

- 禁止將本產品安裝在機械廠、化工廠及研究設施等會接觸到含酸、鹼、有機溶劑、塗料煙霧等有害氣體或含腐蝕性成分氣體的地方。

 否則可能會引起氣體中毒、產品腐蝕及退化，進而引發火警。

- 禁止安裝在以下地方。

請勿安裝在有蒸汽的地方。



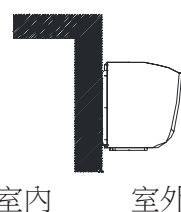
否則可能會導致短路，進而引發火警。

請勿安裝在有可燃性氣體或排放廢氣的地方。



否則可能會導致短路，進而引發火警。



請勿安裝在窗外或牆外。




否則可能會被雨水淋濕，進而導致短路。

注意


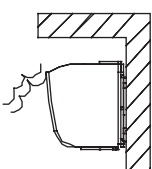
- 產品必須由 2 名人士安裝。

  否則產品可能會掉落，進而導致受傷。

- 提供了安裝固定件等專用零部件時，須使用專用零部件。

 否則產品可能會掉落，進而導致受傷。

- 本產品須安裝在足夠牢固的建築上，確保能承受產品 5 倍以上的重量。如果不能保證牢固，則須對建築進行加固。

  否則產品可能會掉落，進而導致受傷。

- 安裝本產品時，請佩戴手套。

  否則可能會受傷。

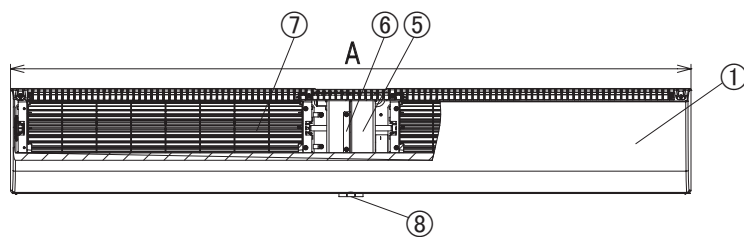
隨機提供的附件

以下附件附於產品包裝箱內。開箱後請檢查附件是否齊全，如不齊全，請聯絡 Panasonic 售後服務中心或經銷商。

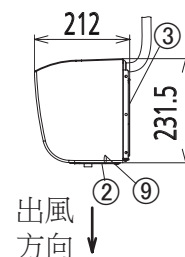
序號	圖樣	名稱	數量	序號	圖樣	名稱	數量
①		墊圈	6	④		固定螺栓 M8x60L	6
②		彈簧墊圈	6	⑤		安裝使用說明書	1
③		螺母 (M8)	6	⑥		售後服務零部件清單	1

零部件名稱及尺寸

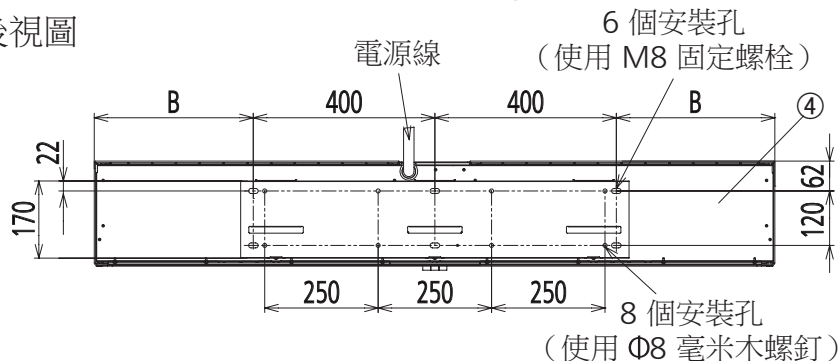
■ 正視圖



■ 右視圖



■ 後視圖



型號	A	B
FY-3009U1、FY-3509U1、FY-4009U1	900	50
FY-3012U1、FY-3512U1、FY-4012U1	1200	200
FY-3015U1、FY-3515U1、FY-4015U1	1500	350

序號	零部件名稱	材質	序號	零部件名稱	材質
①	前面板	樹脂 ABS	⑥	電動機支架	鋼板 SGCC
②	出風口	樹脂 ABS	⑦	貫流風輪	鋼板 + 樹脂 AS + 玻璃纖維
③	安裝板	鋼板 SGCC			
④	後面板	鋼板 SGCC	⑧	按鈕開關	裝配件
⑤	電動機	裝配件	⑨	導流板	樹脂 ABS

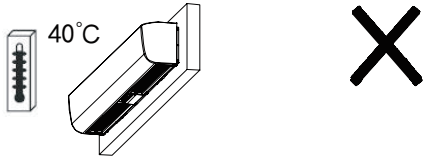
提示事項

棄置本產品時，請參閱上表，以盡可能回收材料。

安裝要求

■請遵守以下要求。否則可能會導致產品老化及發生故障。

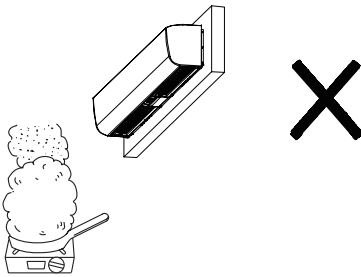
本產品的適用室溫範圍為 $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$ 。



禁止安裝在凹凸不平的表面上。（平面度應為 3 毫米以下。）

變形會導致隔斷效果降低。

請勿安裝在會接觸到油煙的地方。



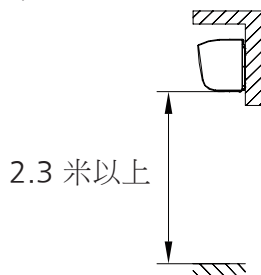
請勿安裝在產品可能會凍結的地方。

否則可能會損壞本產品或引發火警。

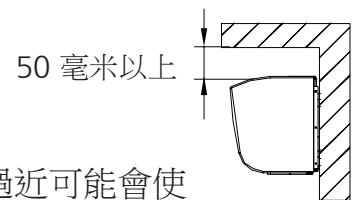
請勿安裝在多塵的地方。

沙塵堆積在風輪上可能會致其變形，進而影響性能。

■安裝完成後，本產品的最低面到地面的距離應大於 2.3 米。



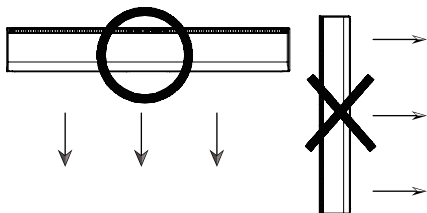
■本產品與天花板之間的距離須在 50 毫米以上。



天花板離進風口過近可能會使隔斷效果降低。

防止發生任何意外。

■請水平安裝本產品，不要縱向安裝。



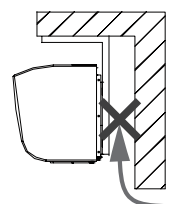
否則可能會影響軸承的性能。

■多台併排使用時，確保產品之間間隔 20~40 毫米。



易於安裝。

■請封堵牆壁與產品之間的縫隙。



防止產品吸入從縫隙進入的室外空氣。

安裝方法

1. 固定安裝板

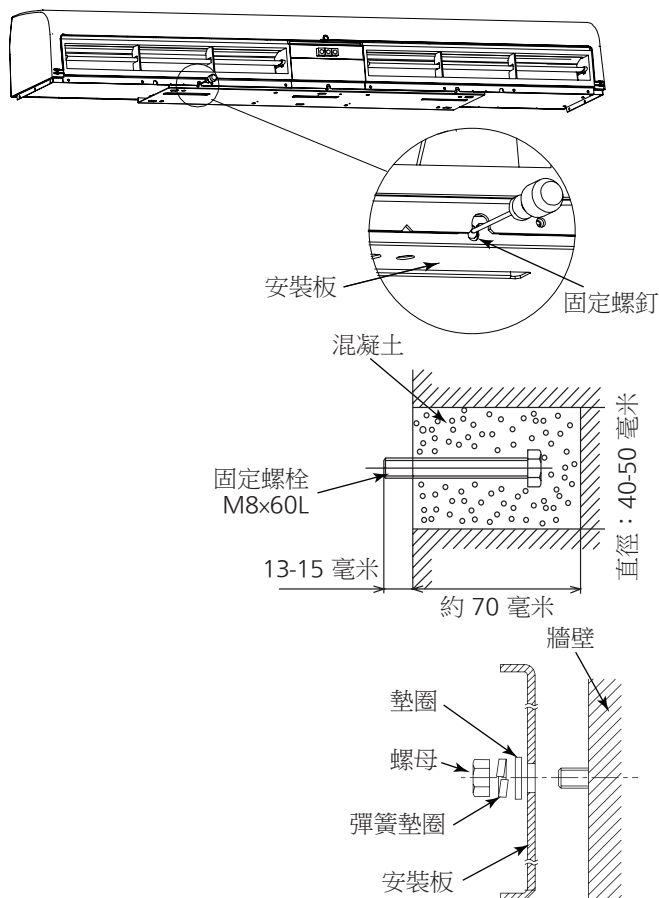
■ 安裝在混凝土牆壁上。

1. 取下安裝板。
將 3 粒螺釘取下，即可取下安裝板。
2. 將固定螺栓緊緊固定在正確的位置。
 - 在牆上確定好位置後鑽孔。
 - 將固定螺栓插入孔中。
 - 用混凝土填補孔洞。
 - 當混凝土凝固後，裝上安裝板，並檢查是否安裝牢固。

提示事項

螺栓頭應露出牆面 13~15 毫米。

3. 使用墊圈、彈簧墊圈和螺母固定安裝板。

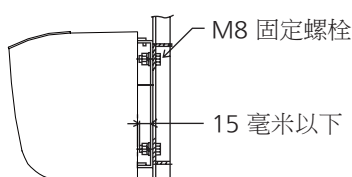


⚠ 注意

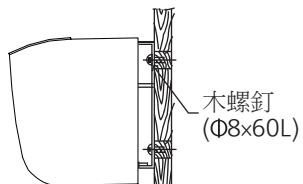
■ 請使用隨機提供的安裝板，以免因不夠牢固而導致產品掉落。

■ 其他安裝方法

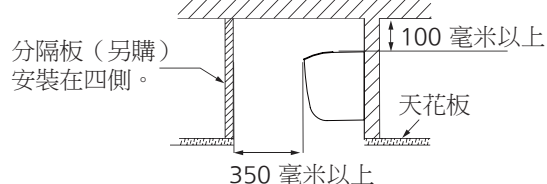
安裝在鋼架上



安裝在木框上



安裝在天花板裡側

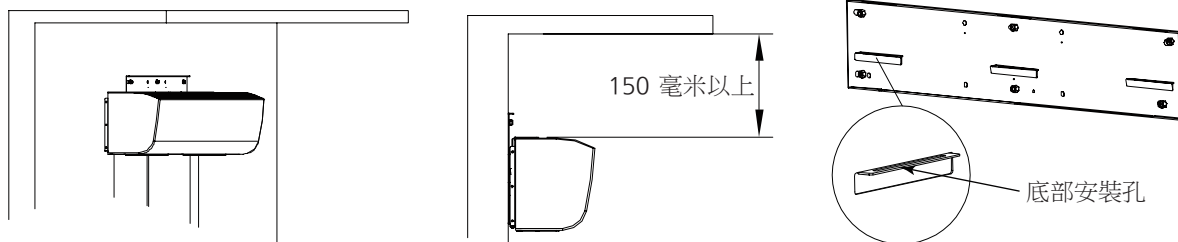


提示事項

1. 禁止安裝在空心牆體上，否則可能會產生噪聲。
2. 視特定情況進行必要的加固，以免出現噪聲共振和振動。
1. 天花板裡側空間應大於上述尺寸，以確保進風空間。如果無法保證進風空間，請選擇更大的型號。
2. 請勿在進風口或出風格柵（包括格柵）附近放置物體。否則可能會影響性能。

2. 接線前準備工作 (當產品頂部與天花板之間的距離短於 150 毫米時，執行此步。)

將後面板上的掛鉤嵌入安裝板的底部安裝孔上。



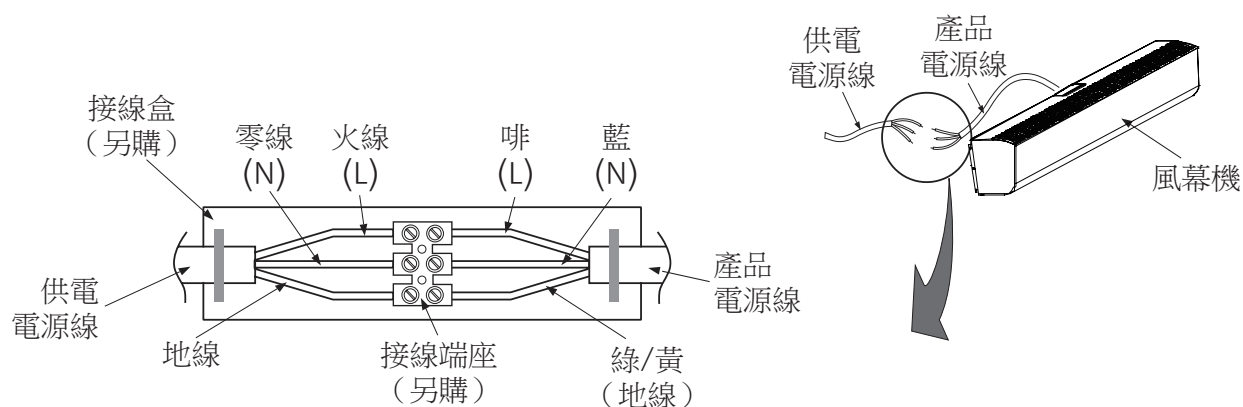
安裝方法

3. 接線



警告

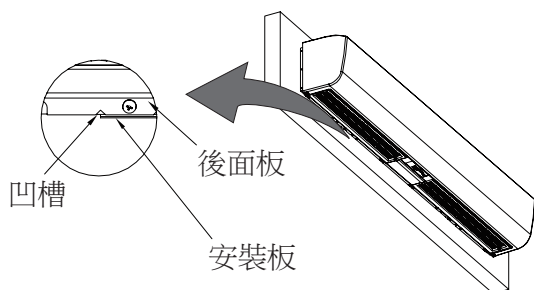
- 接線時須遵守當地的佈線規例。否則可能會引發火警。
- 請選用 60227 IEC 53 型絞合軟線。導線的標稱橫截面積為 $3 \times 1.0 \text{ mm}^2$ 。否則可能會引發火警。
- 本產品未提供雙極開關和漏電保護開關。請自行到市面上選購。
- 使用的接線端座（另購）需符合 IEC 60998，接線盒（另購）需符合當地規例。
- 電線必須連接牢固，不能有絲毫鬆動。



- 按照接線示意圖，將產品的電源線（包括地線）連接到供電電源線上。
- 接線完成後，確保所有連接是緊固的。

4. 產品的安裝

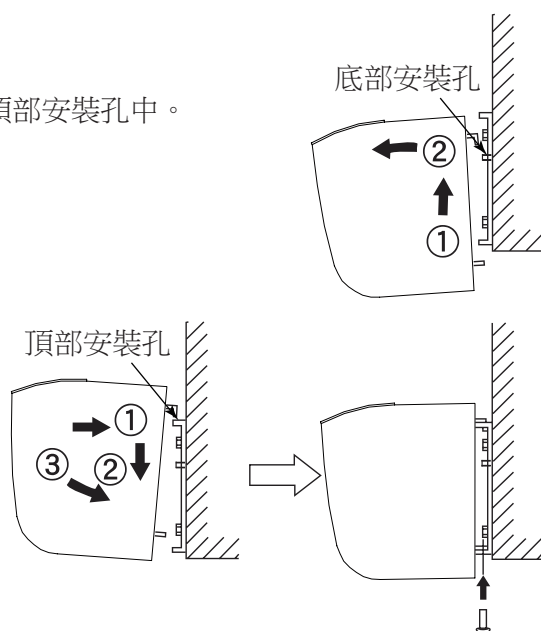
1. 從底部安裝孔上取下產品。
2. 固定產品。
後面板的凹槽與安裝板兩端對齊。將掛鉤嵌入安裝板頂部安裝孔中。



3. 緊固螺釘。（3 粒）

提示事項

建議扭矩為 $1.2 \text{ N} \cdot \text{m}$ 。



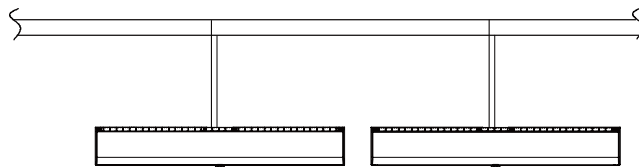
多台組合運行

警告

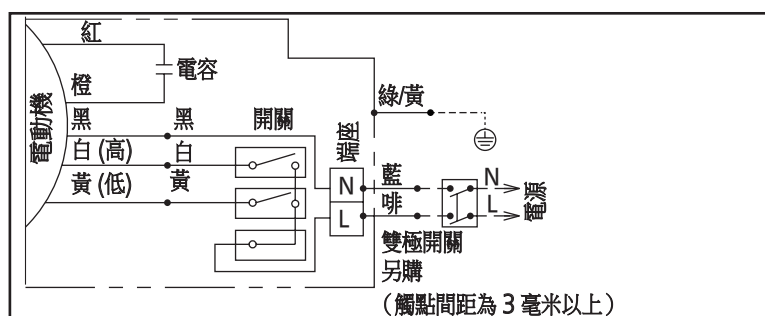
- 多台連動時，請選用容量為合計電流 1.2~1.5 倍的開關。
- 應安裝漏電保護開關，否則可能會觸電。
- 併聯使用的台數不能超過 6 台。

- 除電源線以外的必要零部件請根據當地電氣要求選購。

電源線

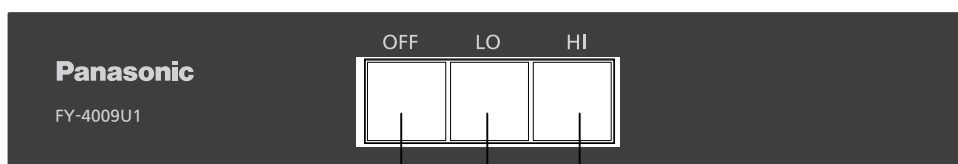


接線示意圖



使用方法

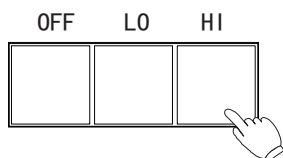
操作面板的使用



※代表型號

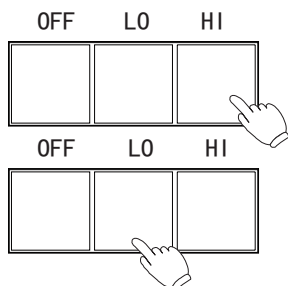
關閉 弱 強

1 開始運行



如左圖所示，按「HI」或「LO」按鍵開機。

2 選擇運行模式

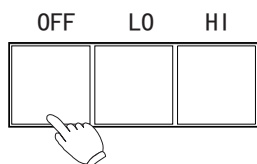


需高風速運行時，按「HI」按鍵。

需安靜低風速運行時，按「LO」按鍵。

使用方法

3 停止運行



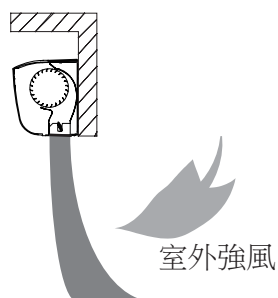
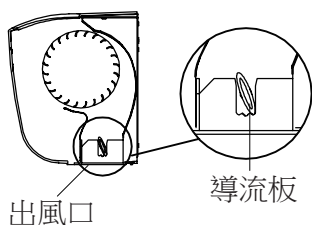
按「OFF」鍵停止運行。

提示事項

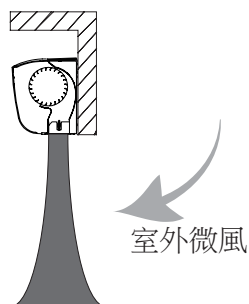
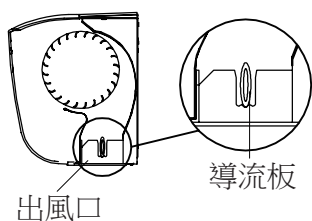
按下「OFF」按鍵後，產品處於待機模式，此時仍連接著電源。

■可根據使用環境調整導流板，以達到理想的隔斷效果。

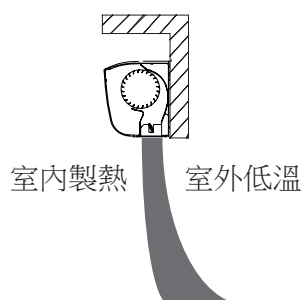
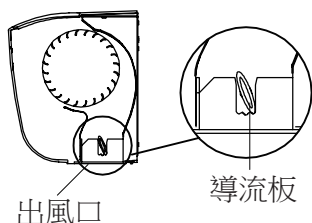
1 室外有強風時



2 室外有微風時

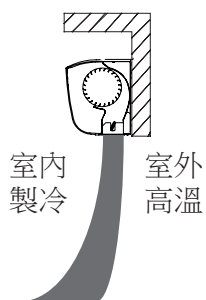
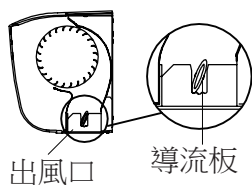


3 室內製熱時

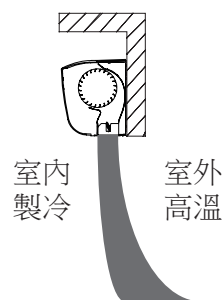
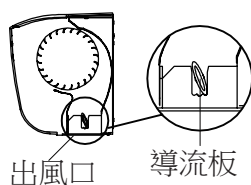


4 室內製冷時

1. 室內為開放空間
(門窗開啟，設定了進排風口等)



2. 室內為密封空間
(無進排風口)



維護保養

警告

■清潔產品前，請確保先斷開電源。



否則使用時可能會觸電或導致受傷。



■產品的維護保養請聯絡購買產品的委託分銷商或合資格人士。



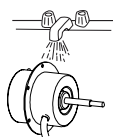
否則可能會損壞本產品或引發火警。

■禁止將手指或棍棒伸入產品、進風口或出風口內。



否則可能會因為風輪高速運轉而受傷。

■切勿讓水流入電動機。



否則可能會損壞本產品或引發火警。

■如果不再使用本產品，請拆除。



否則產品可能會掉落，進而導致受傷。

■發生易燃氣體洩漏時，請勿開啟本產品的任何功能。



否則可能會產生火花，進而引起爆炸。

■請勿用濕手開啟或關閉電源。



否則可能會觸電。

■如果發生異常（噪聲、振動、異味），請立即停止運行，等待維修。

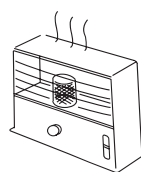


否則可能會引起意外事故。

■禁止將燃燒器具放置在產品直接吹風的位置。



否則可能會因為燃燒不充分而造成一氧化碳中毒。



注意

■維護保養需由 2 名人士執行。



否則產品可能會掉落，進而導致受傷。

■禁止在產品上懸掛任何物品。

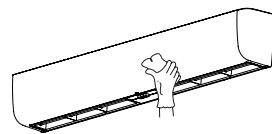


否則產品可能會因為重量增加而掉落。

■清潔本產品時，請佩戴手套。



否則可能會受傷。



■請勿將水和其他液體直接噴灑在本產品上。



否則可能會造成短路或觸電。

維護保養

⚠ 注意

■ 眼睛不應正對出風口（尤其是啟動本產品時）。



吹出的物質可能會傷及眼睛。

■ 請勿在出風口或進風格柵附近放置物體。



否則可能會因為物體被吹落或吸入而造成人士受傷。

■ 風幕機吹出的強風可能會掀起沙塵。



這可能會導致人士受傷。

■ 請勿使用汽油、苯、稀釋劑或任何其他化學品清潔本產品。



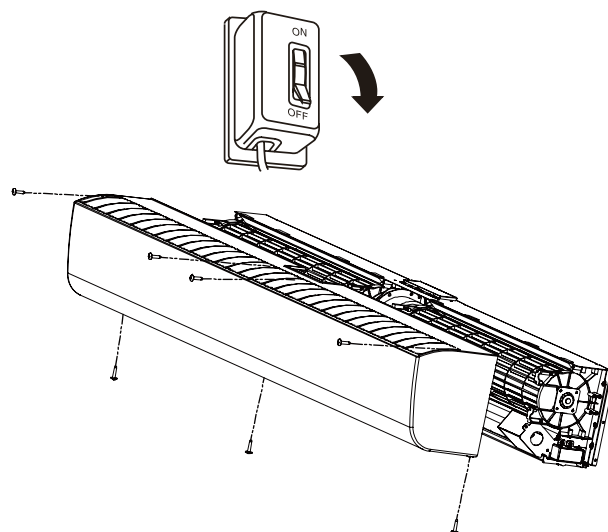
否則可能會腐蝕產品致產品掉落砸傷他人。

提示事項

■ 清潔產品前，請確保先斷開電源。

■ 元件的拆卸

如右圖所示，取下 7 粒螺釘即可輕鬆取下元件。



疑難排解

根據下表進行檢查並採取措施。如果產品依然不能正常工作，請斷開電源並聯絡售後服務中心或經銷商。

	現象	可能的原因 1	可能的原因 2	可能的原因 3
初期	無法運行。	檢查電壓。	接線不正確。 (☞ P19)	
	噪聲或振動大。	安裝不正確。 (☞ P18~P19)		
	隔斷效果差。	型號不合適。	導流板位置不正確。 (☞ P21)	產品垂直安裝。
使用中問題	無法運行。	接線不牢固。	雙極開關斷開。	
	隔斷效果差。	進風格柵堵塞。		
	噪聲或振動大。	風輪裡有灰塵堆積。	有異物落入產品內。	發動機運行異常。

技術規格

電壓：單相 220V 頻率：50Hz

型號	出風風速 m/s		功耗 W		電流 A		噪聲 dB(A)		風量 m³/h		絕緣等級	長度 mm	重量 kg	安裝高度 (m)
	強	弱	強	弱	強	弱	強	弱	強	弱				
FY-3009U1	10.5	8.5	76	70	0.35	0.32	48.5	45	1100	920	B	900	12	3.0
FY-3012U1	9.5	8	94	85	0.43	0.4	48.5	44.5	1400	1270	B	1200	14.5	3.0
FY-3015U1	10.5	9.5	131	110	0.59	0.5	51.5	48	2000	1800	B	1500	18	3.0
FY-3509U1	11	9	95	85	0.41	0.39	51	49	1150	1000	B	900	12	3.5
FY-3512U1	10.5	8.5	114	100	0.49	0.46	49	46	1550	1300	B	1200	14.5	3.5
FY-3515U1	11	9	146	110	0.67	0.52	52	49	1800	1500	B	1500	18	3.5
FY-4009U1	12	10	110	94	0.5	0.43	54.5	51	1340	1190	B	900	12.5	4.0
FY-4012U1	12	10	126	105	0.59	0.49	52.5	48.5	1700	1530	B	1200	15.5	4.0
FY-4015U1	13	10	177	147	0.81	0.68	56	52	2450	2080	F	1500	18	4.0

電壓：單相 240V 頻率：50Hz

型號	出風風速 m/s		功耗 W		電流 A		噪聲 dB(A)		風量 m³/h		絕緣等級	長度 mm	重量 kg	安裝高度 (m)
	強	弱	強	弱	強	弱	強	弱	強	弱				
FY-3009U1	10.5	9	86	80	0.37	0.35	50.5	47.5	1150	960	B	900	12	3.0
FY-3012U1	10	8.5	107	95	0.46	0.43	50.5	47	1500	1320	B	1200	14.5	3.0
FY-3015U1	11	10	145	115	0.6	0.5	53.5	50.5	2100	1850	B	1500	18	3.0
FY-3509U1	11.5	9.5	99	96	0.42	0.4	54	51	1200	1050	B	900	12	3.5
FY-3512U1	11	9	122	112	0.51	0.47	51	48	1650	1400	B	1200	14.5	3.5
FY-3515U1	11.5	9.5	161	125	0.68	0.54	54	51	1800	1600	B	1500	18	3.5
FY-4009U1	12.5	10.5	122	100	0.51	0.43	56.5	53.5	1360	1200	B	900	12.5	4.0
FY-4012U1	12.5	10.5	139	110	0.6	0.49	54.5	51	1800	1580	B	1200	15.5	4.0
FY-4015U1	13.5	10.5	190	160	0.86	0.68	58	54.5	2500	2050	F	1500	18	4.0

提示事項

1. 上表所示參數為室溫 20°C 下測得的數值。
2. 噪聲值是在距離產品 1.5 米處與出風口呈 45° 角測得的數值。
3. 上述風速是在空曠無氣流及障礙的測試實驗室中測得的，故在實際安裝後，風速可能會因不同使用環境而異。
4. 出風風速為最大值。

