



## Split-type Air Conditioner Inverter Heat Pump

## 分體壁掛式空調器變頻冷暖

### 使用安裝說明書

R410A

#### 製品名

MSZ-AH09VA-H1

MSZ-AH12VA-H1

MSZ-PAH09VA-H1

MSZ-PAH12VA-H1

請不要將空調器電源與其它自發供電設備連接。

如果連接將可能造成空調器損壞。

**警告** 由於處置錯誤將造成死亡、重傷或財產損失的可能性很大。

**注意** 由於處置錯誤，可能造成空調器不能正常使用或造成損失。

安裝結束後，請安裝人員務必在安裝結算聯和保修卡上按要求貼好條形碼。

#### 非常感謝您選用三菱電機房間空氣調節器。



- 爲了確保正確安全地使用本機，在使用前，請一定先閱讀說明書。閱讀以後請妥善保存，以備必要時查閱。
- 購買機器時，須在出售店收取記載有「購買日期・店名」的有效證明。
- 顧客請不要自行安裝機器(自行安裝，將不能保證安全和功能，由此引起的安全問題本公司不予負責。自行安裝機器的售後服務不屬於三包範圍)。

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# 使用安全事項

爲了您與他人的安全以及爲了防止財產損失，請務必遵守安全事項。



 <b>警告</b>	若安裝不當，可能會造成重傷甚至死亡等重大損失。
 <b>注意</b>	若安裝不當，可能會導致傷害以及房屋、財產等損失。

## 安裝時

### 警告



不要自行安裝機器。  因爲若安裝不當，將可能引起火災、觸電、機器掉落傷人或漏水。請與出售店或本公司售後服務中心聯系。 	電源請務必使用空調專用的電源插座。  如果使用專業以外的電源插座，會發生發熱以及火災。 
禁止安裝在有可能泄漏腐蝕性、可燃性氣體的地方。  萬一氣體泄漏并聚集在機組周圍時，便有發生爆炸或損壞機器的危險。 	必須接地線。  空調插座應連接有專門接地線，地線切勿接到煤氣管、自來水管、避雷針導線、電話接地線上。如果沒有接地線或地線沒有連接好，可能引起觸電事故。在使用前請務必確認是否有接地線或接地線是否按要求的連接。 
必須安裝漏電斷路器。  若不裝漏電斷路器，便可能有觸電的危險。 	禁止使用R410A以外的冷媒。  否則會引起故障、破裂等重大事故。 

### 注意

排水口須保證能順利排水。  如果有排水不良狀況，室內外機組將可能滴水浸濕、污損家具。 	
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## 移機・維修時

### 警告

不可自行修理或移機。  因爲處理錯誤，可能導致火災、觸電、機器掉落傷人或漏水等。請與出售店或本公司售後服務中心聯系。 如果電源軟線損壞，爲避免危險，必須由製造廠或其維修部或類似的專職人員更換。 	請與出售店聯系
如果空調不能製冷或製熱時，缺少冷媒是原因之一，所以請與出售店聯系。 如果需要追加冷媒以及修理時，請向售後服務人員確認。  空調裏使用的冷媒是安全的。通常冷媒是不會泄漏，但萬一，冷媒泄漏在室內，接觸到暖風機、取暖器、煤氣爐等將會產生有害氣體。 	請向售後人員確認










“圖符號”的意思如下：

 禁止	 必須遵守指示
 禁止用濕手	 要接地線
 禁止用水	 請拔下電源插頭

空調發生異常或不良情況時  
停止運轉，請與出售店或本公司  
售後服務中心聯系。

## 使用時

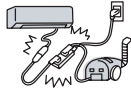
### 警告

不要長時間讓冷風直吹肌膚。  可能會損害身體健康。 	
禁止在進風口、排風口或出風口插入手指或棒條等。室內機安裝高度應保證風扇葉片高於地面2.3米以上。  裏面有高速旋轉的風扇，會造成人身傷害。應看好兒童，切勿讓他們玩弄空調器。 	
禁止損傷電源線或作連接加工等。  若在電源線上堆放重物，以及損傷、或加熱、連接加工電源線，便有可能損壞電線及引起火災或觸電事故。 	
禁止在空調運轉時拔下電源插頭。  可能會產生火花，引起火災事故。 	
插入電源插頭時，不僅需清除電源線插頭的灰塵，還要確認插座是否有灰塵及被堵住、異常等情況，並確保電源插頭完全插入插座。  如果附着灰塵，有堵住及異常情況，會引起火災、觸電等事故。 	

## 警告

禁止在電源線的中途引線或延長電源線及禁止使用多孔插座。

可能因接觸不良、絕緣不良、超過容許電流量而會引起火災、觸電事故。



禁止

發覺異常時（有糊味等），應立刻停止運轉，關閉電源開關。

發覺異常而繼續運轉下去時，可能導致火災、故障等。此時，請與出售店或技術服務中心聯系。

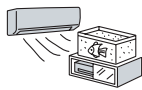


請拔下電源插頭

## 注意

禁止當其他特殊用途。

不能作為保存精密機器、食品、動植物、美術品的用途。因為有降低保存品質量的可能。



使用禁止

禁止用潮濕的手去操作開關。

有觸電的危險。



禁止用濕手

和燃燒器具一起使用時，應該時常換氣。

可能產生氧氣不足的現象。



換氣

禁止燃燒器具放在直接吹得到風的地方。

可能引起燃燒器具的不完全燃燒。



禁止安裝

## 注意

拔下電源插頭時，禁止拉電源線。

因為可能會拉斷一部分芯線，而引起火災、觸電等事故。



禁止

安裝臺如果已陳舊不堪，不可置之不理。

機組有翻倒傷人的可能。



禁止

禁止用水洗刷空調機。

機器中如果進水，會降低絕緣性能，有發生觸電的危險。



禁止用水

禁止在直接吹到空調機氣流的地方放置動植物。

可能對動植物有不良影響。



禁止

室內外機組下面不得堆放其它電器產品及家具等。

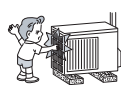
因會有水滴滴下的情況，導致污損和設備故障。



禁止安裝

禁止接觸室內外機的進風口和鋁翅片。

會造成人身傷害。



禁止

禁止踩在室外機組上或上面堆放東西。

可能跌下受傷或機器掉落傷人。



禁止

保養機組時，禁止站在不穩固的腳臺上。

可能跌倒受傷。



禁止

禁止用殺蟲劑・消毒劑・可燃性噴霧材料噴吹。

可能引起火災、變形。



使用禁止

打雷閃電時，請拔下電源插頭。

如果被雷擊可能會引起機組故障。



請拔下電源插頭

清潔空調時，應停止運轉，請拔下電源插頭。

運轉中，有高速旋轉的風扇可能傷人。



請拔下電源插頭

長期不使用機器時，請拔下電源插頭。

因堆積灰塵而有可能引起火災和事故。



請拔下電源插頭

禁止敞開門窗，在高濕度狀況下進行長時間的運轉。

開冷氣時，若在高濕度（80%以上）下進行長時間連續運轉，空調機可能有冷凝水滴下，浸濕污損室內家具。



運轉禁止

禁止給電池充電或拆卸電池，禁止投入火中。

可能導致電池漏液、火災或爆炸。



禁止

更換相同類型的2節新電池。

新舊電池混用可能導致電池發熱、漏液或爆炸。



相同類型的

如果空調使用多年時，請及時保養或檢查機組。

如果室內機堆積灰塵和異物，會產生異味并堵塞排水管道，就會造成室內機漏水。

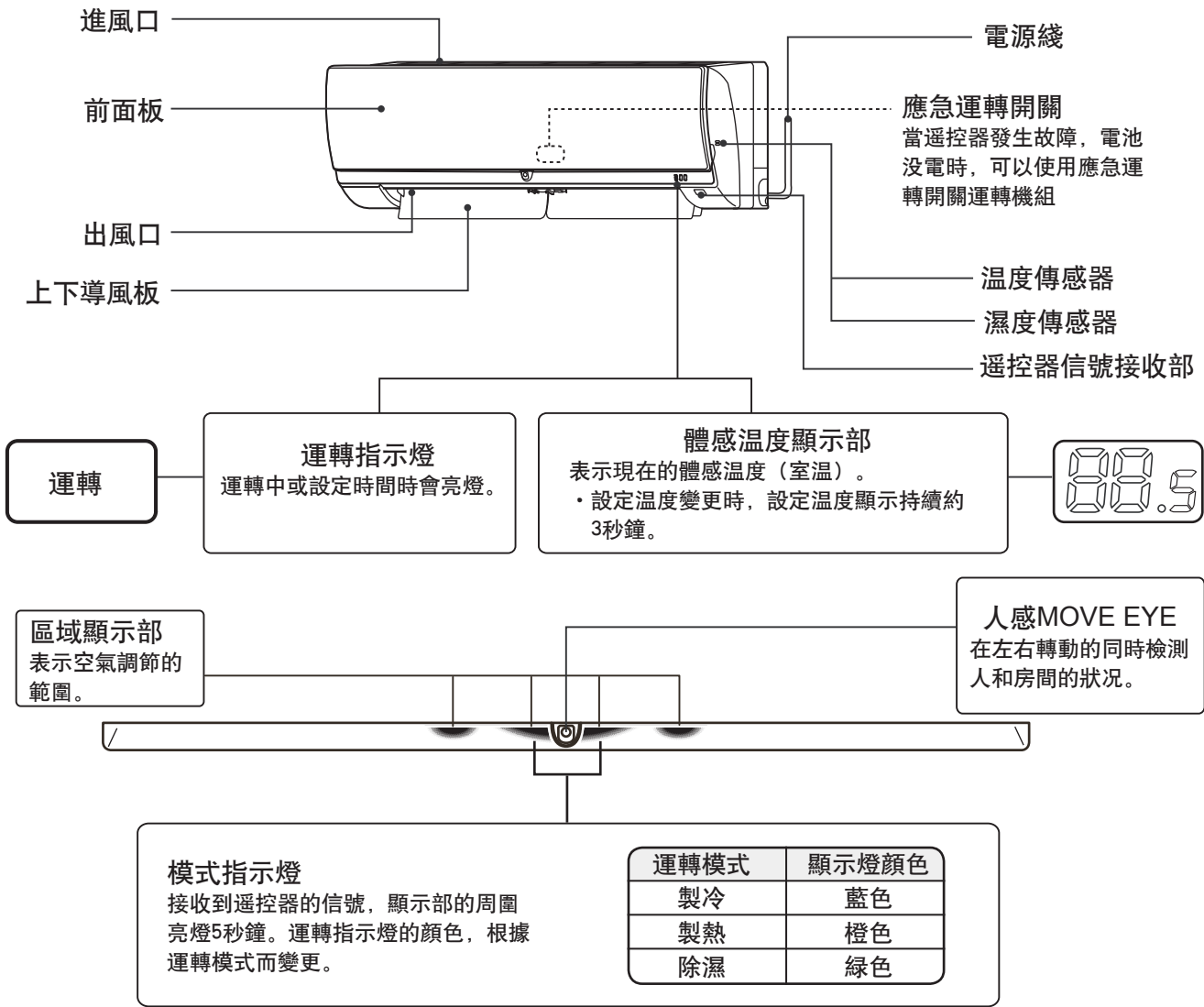
檢查機組需要專業知識和專業技術，此時，請與出售店或本公司售後服務中心聯系。



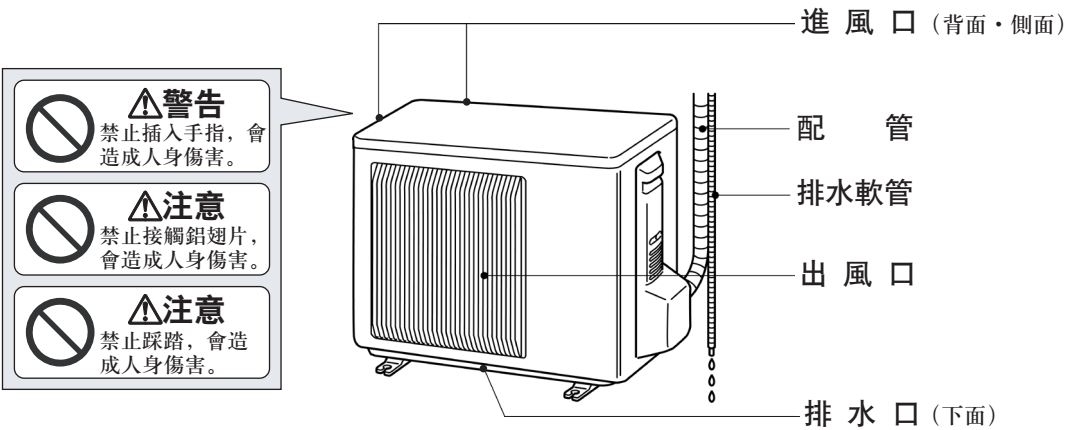
保養檢查

# 各部件名稱

## 室內機組



## 室外機組





## 遥控器

### <蓋上前蓋時>

#### 信號發射部

向室內機的遙控器信號接收部發送信號。

#### 操作顯示部

顯示機組設定狀態。

・一旦按下不能使用的按鈕，顯示“無效”，持續3秒鐘

#### 製冷・製熱

開始製冷・製熱運轉。第8頁

#### 除濕

開始除濕運轉。第9頁

#### 簡單定時開/簡單定時關

簡單預約空調開機/關機時間。

第14頁



#### 運轉（開/關）

運轉、停止。

#### 濕度

調節濕度設定。第9頁

#### 溫度/調節

・調節溫度。第8頁  
・調整時間時使用。第6,15頁  
・切換菜單時使用。第16頁

#### 風避人・風對人（體感模式下）

選擇送風方式。第8頁

#### 製熱10℃

設定溫度為10℃的製熱運轉。第11頁

#### 快速製熱

製熱運轉剛開始時，以超强能力進行製熱運轉，達到快速製熱的效果。（約1小時後自動解除）第12頁

### <打開前蓋時>

#### 菜單

菜單切換。第16,17頁

#### 決定

確定設定項目。

#### 取消

解除設定項目。

#### 定時開・定時關

以10分鐘為單位，預約空調開機/關機的時間。第15頁

#### 涼感

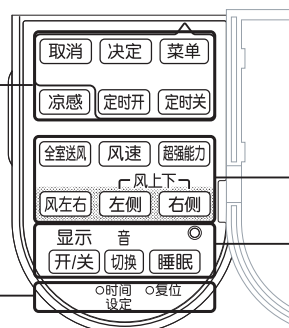
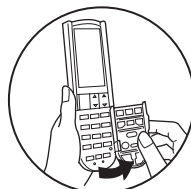
使導風板上下自動擺動。第12頁

#### 時間設定

設定時間。第6頁

#### 復位

更換電池後進行復位。



#### 風速・風左右・風上下 （左側、右側）

調節風速和風向。第10頁

#### 全室送風

實施消除房間內溫差的運轉。第8頁

#### 超强能力

以超强能力模式進行製冷或製熱。

第13頁

#### 顯示（開/關）

可改變室內機的顯示。第18頁

#### 音（切換）

可改變空調的蜂鳴音。第18頁

#### 睡眠

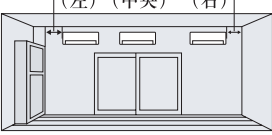
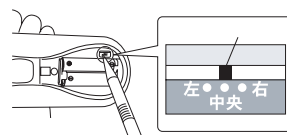



進入/退出睡眠模式。第13頁

# 操作前的準備工作

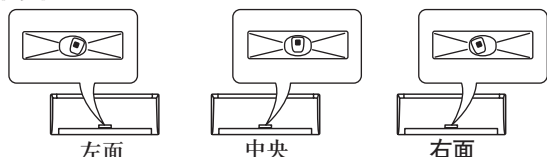
安裝空調請與出售店聯系。

## ■安裝位置的選擇（請在安裝電池之前選擇位置）

按照室內機安裝的實際位置，遙控器也要進行相應的安裝位置設定。

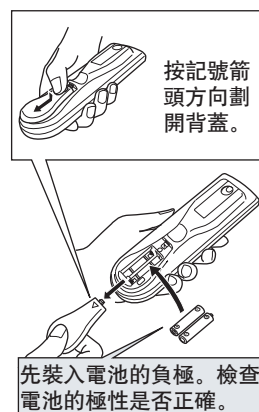
	左	中央	右
<b>計算安裝位置</b> 請確認房間內室內機安裝的位置。	安裝在左面（要求距離50cm以內）      安裝在中間（左）（中央）（右）      安裝在右面（要求距離50cm以內） 		
<b>遙控器的設定</b> 把遙控器的背面蓋子打開，根據室內機的安裝位置設定。			
<b>遙控器的顯示</b> 畫面顯示變化。			

- 如果安裝位置選擇不合適，會導致製冷或製熱效果低下。
- 當空調安裝在左側或右側時，空調停止運轉時，人感MOVE EYE會朝向房間中央的位置。

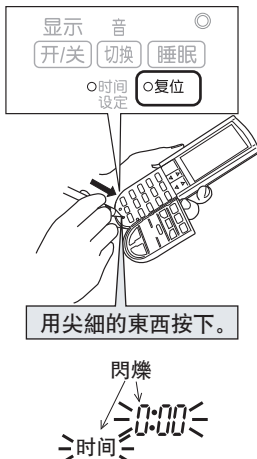


## ■設定時間

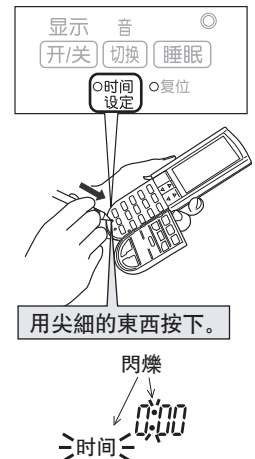
**1** 移去遙控器的背蓋，裝入電池。




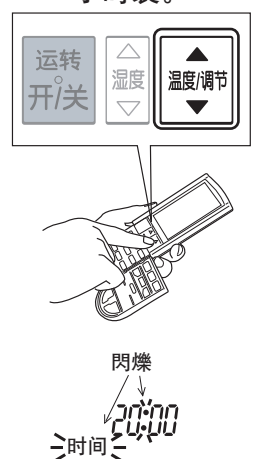
**2** 打開遙控器前蓋，按下「復位」按鈕。



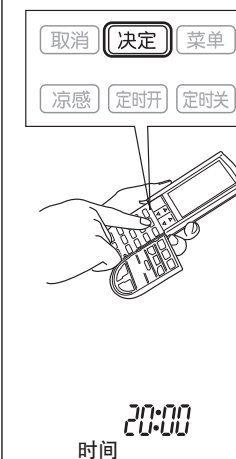
**3** 按下「時間設定」按鈕。




**4** 按下  按鈕調整時間。時間為24小時製。



**5** 按下  按鈕。

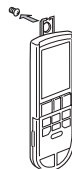


- 設定完時間後必須按  按鈕。時間設定內容閃爍變為亮燈，時間設定完成。
- 約30秒不進行時間設定操作，則設定時間功能會解除。
- 按下「復位」按鈕，各功能設定會恢復到出廠設置。

## ■遙控器的使用

向室內機的遙控器信號接收部發送信號。

- 遙控器信號可達範圍是對着室內機正面直線距離7米以內。
- 請不要在遙控器和室內機間放置任何阻礙信號傳遞的物品。
- 請不要將遙控器放置在太陽光直射的地方或離火爐近的地方。
- 無法接收信號、無法顯示、顯示較暗時。（請見第27頁）
- 需要將遙控器挂在牆上時，把遙控器背面的安裝卡鉤拔出，挂在牆上。

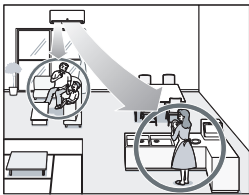
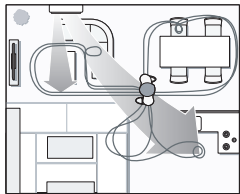


## <關於更換電池>

- 如果遙控器的電池電量少，會導致室內機對遙控器信號無反應，顯示屏變淡。此時，請更換2節新的7號鹼性電池（LR03）。（鹼性干電池的使用壽命約1年）
- 請勿使用不同種類的電池或新舊電池混合使用。
- 請勿使用充電式的電池或鋳電池。可能會引起誤動作。
- 請勿放在小孩能觸及的地方，會有誤食用的危險。

# 人感MOVE EYE的控製操作

人感MOVE EYE是可以檢測地面、牆壁的温度、人的位置及活動，控製人實際感受到的體感温度，是以人爲中心的空氣調節。

體感功能設定爲「開」		
	風對人・風避人	全室送風
檢測地面温度 人感MOVE EYE通過同時檢測地面温度和房間温度，可防止過冷或過熱。 人感MOVE EYE每次運轉都會檢測房間温度的變化和人的活動，正確記憶房間的形狀。	人活動區域的檢測 僅對有人在的地方進行空氣調節及根據人的活動量實施室温控製。 	人生活區域的記憶控製 將人經常在的區域作爲生活區域進行記憶。將體感功能設定爲“開”，便可進行生活區域的記憶，選擇全室送風運轉，可實現生活區域温度均勻的運轉。 

## 關於人感MOVE EYE的檢測範圍

人感MOVE EYE可檢測廣角約150度範圍的温度。

以下場合は檢測範圍以外的。

- ・安裝空調的牆壁
- ・空調的正下方
- ・與空調之間有障礙物（家具等）的地方

如遇以下情况時，人感MOVE EYE不能正確地檢測到人、窗、門。

- ・盛夏空調剛運轉時，地面和牆壁的温度高
- ・蓋被子或穿厚衣服，皮膚沒有露出來的時候
- ・當有短時間內温度變化非常大的物體存在時

## 關於區域顯示部的顯示

風避人・風對人・全室送風運轉時，顯示空調進行空氣調節的區域。

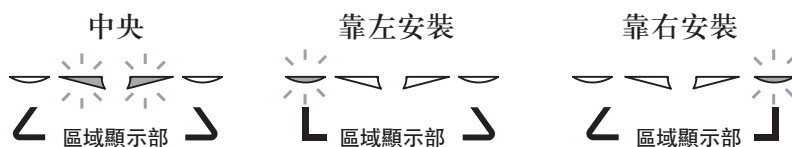
風避人・風對人運轉時：顯示現在有人在的區域。

全室送風運轉時：顯示已記憶的人生活的區域。

- 設定風避人・風對人功能，從開始運轉到檢測到有人的地方爲止，指示燈一直是亮着的。
- 如下情况，區域顯示部就不再顯示了。
  - ・「體感」功能設定爲「關」時
  - ・風向設定爲自己想要的風向時
  - ・在「全室送風」時，再按一次「全室送風」按鈕
- 根據遙控器設定的室內機安裝位置不同，當室內機正前方有人時，指示燈點亮的位置是不同的。



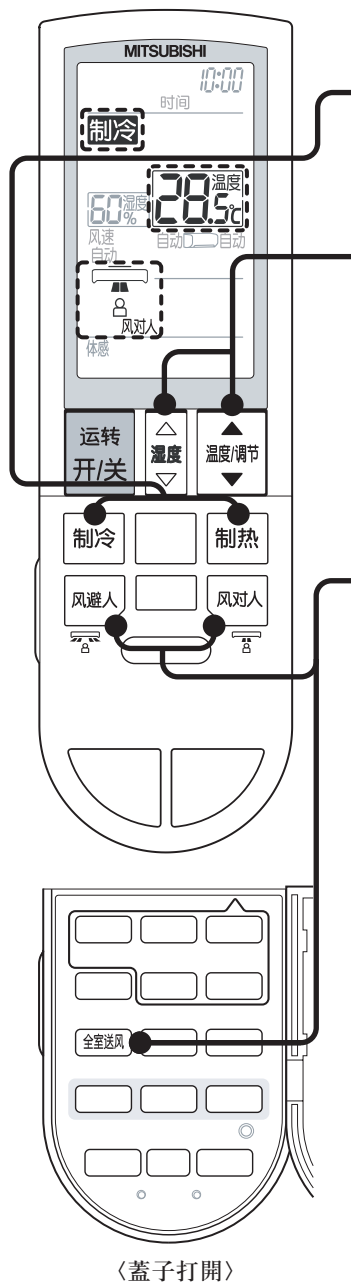
〈空調的正前方有人時，指示燈點亮的狀態〉



- 空調出廠初始設置時，「體感」功能設定爲「開」。

# 製冷・製熱運轉（控制體感溫度）

體感溫度控制是通過人感MOVE EYE進行動作的，不僅檢測室溫，也兼顧到地面溫度、人的位置及活動，進行精密的控制運轉。



■ 按 **制冷** **制熱** 按鈕中的任意一項  
空調開始運轉。

■ 按 **溫度/調節** **溫度** 按鈕調節溫度和濕度

- 每次按下 **溫度/調節** 按鈕，溫度變化0.5℃。（設定範圍：16～31℃）
- 每次按下 **溫度** 按鈕，濕度變化10%。（設定範圍：40～70%）
- 當製熱運轉時，濕度的設定是無效的。

〈節能推薦的設定溫度〉

製冷	溫度設定28℃以上（濕度設定60%）
製熱	溫度設定20℃以下

■ 在運轉中，按下 **風避人** **風對人** **全室送風** 按鈕的其中任意一項，  
進行選擇風向

- 風對人**：以有人的區域為中心快速製冷、製熱。
  - 風避人**：使感受到風的感覺變弱，同時進行防止使肌膚干燥的空氣調節。
  - 全室送風**：把房間內人多的區域，作為生活區域記憶。實施消除生活區域的溫度不均衡的空氣調節。
- 空調出廠初始設置時，設定為「風對人」。
  - 上下風向、左右風向為自動。

## 停機時

空調運轉中按下 **運轉開/關** 按鈕

- 如按 **運轉開/關** 按鈕，啟動運轉，機組會記憶上次運轉設定，按停止前相同的狀態運轉。

例）上一次是設定製冷運轉，在啟動後也是製冷運轉。

### ● 體感製冷・製熱運轉

把「體感」設到「開」，人感MOVE EYE開始工作，不僅房間溫度，也對地面溫度、人的位置及活動實施體感溫度控制運轉。用體感製冷功能還能兼顧濕度控制實施運轉。

・空調出廠初始設置時，「體感」功能設定為「開」。

### ● 簡單製冷・製熱操作

把「體感」設到「關」，則人感MOVE EYE不工作。僅以室溫為基準運轉。而且，風避人・風對人・全室送風功能無效。製冷運轉時的濕度調節功能也無效。

●如溫度設定到16度或31度，濕度設定40%或70%時，會發出“嗶嗶”音。

●製熱運轉剛開始，在預熱狀態時，上下導風板會成水平狀態。（約3分鐘）

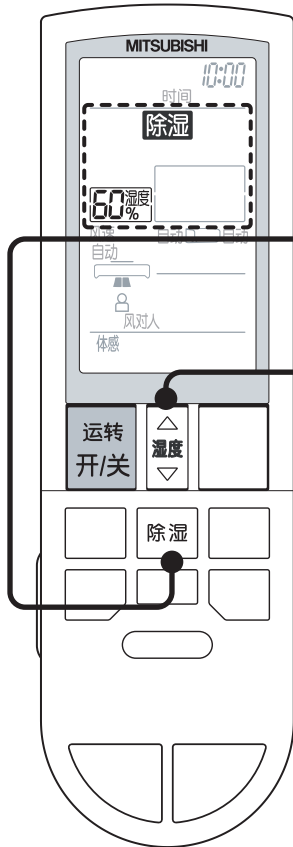
●即使選擇「風避人」功能，如果感覺被風吹時，請根據自己的喜好調節風向。

●「風對人」功能：風向是製冷時往頭部吹，製熱時往腳部吹，可能會有不直接吹向人體的現象。



# 除濕運轉

抑製室內溫度下降的除濕。  
請在梅雨等高濕度季節使用。



■ 按下 **除湿** 按鈕  
空調開始運轉。

■ 按下 **湿度** 按鈕，進行濕度設定

➤ 濕度按鈕每次按下，濕度變化10%。（設定範圍：40%～70%）

〈推薦濕度〉 

濕度	60%
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## 停機時

空調運轉中按下 **运转开/关** 按鈕

### 關於除濕運轉

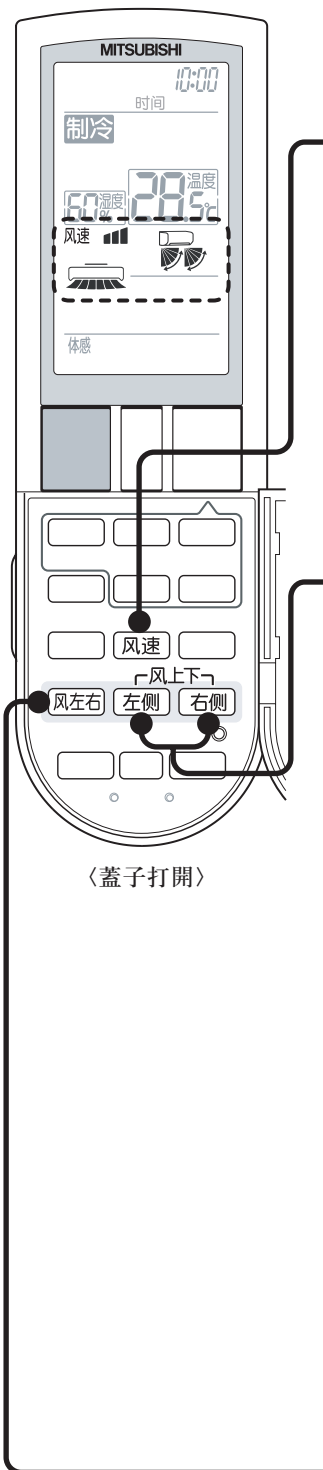
- 本空調的除濕模式，具備再熱除濕的方式。再熱除濕方式是為了提高舒適性，避免房間溫度過低引起不適，使房間溫度基本維持不變而實施的除濕方式。
- 當您想維持房間溫度不下降，又想降低房間濕度時，請選擇除濕模式運轉本空調。再熱除濕運轉可實現維持環境溫度基本不下降的除濕，從而改善您的舒適性。  
舉例：在梅雨季節，當環境溫度為21℃、相對濕度為90%時，您想要降低房間濕度，又不想運轉製冷進行除濕（製冷運轉時，房間溫度會下降，可能給您和家人帶來不適）。此時，您可以選擇本空調的除濕模式，設定相應的相對濕度（設定範圍：40%～70%），空調就會將房間溫度基本保持在21℃，同時對房間進行除濕，大幅改善您的舒適性。
- 本空調運轉再熱除濕模式推薦的環境溫度範圍：10℃～32℃。



- 不能設定溫度。遙控器上的設定溫度顯示會消失。
- 除濕運轉開始時，為了正確檢測室內溫度，空調會先進行約3分鐘的送風運轉。
- 當濕度設定為40%或70%時，空調會發出“嗶嗶”音。
- 除濕運轉：用再熱除濕方式，不使房間溫度過低而實施除濕。當房間內的濕度非常高及室外溫度較低的時候，可能達不到設定的濕度。耗電量因溫度，濕度條件而異。

# 風速・風向的調節

根據自己感覺舒適的狀態，進行風速、風向的設定。



## 風速的調節

### ■ 按下 **風速** 按鈕

每次按下按鈕，即按照如下順序改變風速。

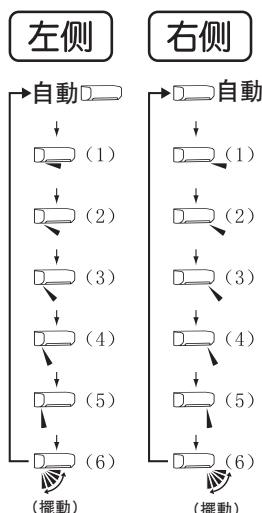


➤ 選擇「遠距」模式，風速會上升為最高。若想使風吹到最遠的地方，可選擇此功能。

## 上下風向的調節

### ■ 按下 **左側** **右側** 按鈕

每次按下按鈕，即按照如下順序改變風向。



自動	製冷・除濕運轉時，向水平吹風； 製熱運轉時，向下吹風。
(1)	請根據自己感覺舒適的狀態進行選擇。
(2)	●遙控器上顯示的角度和實際上下導風板的角度是有差異的。
(3)	●製冷、除濕運轉時，風向不能長時間往直吹，避免滴水。製熱
(4)	●風向可能會自動變化。
(5)	
(6) (擺動)	每間隔一定時間，上下導風板自動擺動。在擺動到上限和下限時，導風板會短暫停留。

〈上下導風板在擺動模式下的範圍〉

風速設定	製冷・除濕	製熱
遠距離送風之外的其它設定	(1) ~ (5)	(2) ~ (5)
設定遠距離送風時	(1) ~ (3)	(2) ~ (3)

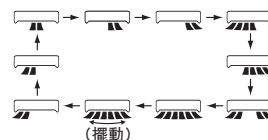
※為了達到舒適風向控制，本機採用了左右兩段式上下導風板，分別由獨立步進馬達進行控制，因此，即使上下導風板設定了同樣的送風位置，實際運行時會存在少許的上下差異現象。

## 左右風向的調節

### ■ 按下 **風左右** 按鈕

每按一次，按右圖順序遞進。

➤ 製冷（除濕）和製熱時，角度會略有差異。



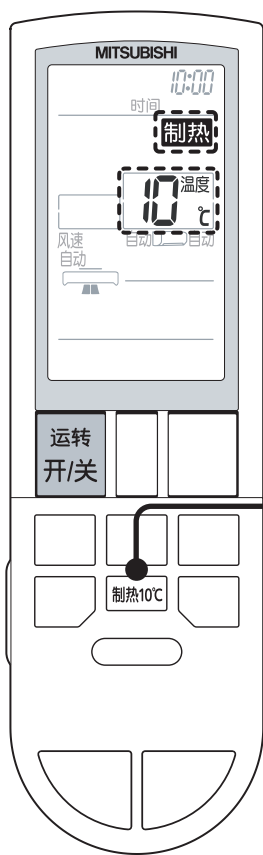
- 把風速和風上下切換到「自動」時，以及把風左右切換到「自動」時，會發出“嗶嗶”音。
- 如調節上下風向和左右風向，風對人・風避人・全室送風功能會撤消。
- 如風速設定為遠距離送風時，會轉為最大風速。

### 注意

- 運轉中，請不要手扳上下、左右風向的導風板來調整風向，否則會造成故障。

# 製熱10℃運轉

製熱運轉時當希望將設定溫度設定到10℃時使用。



■ 在製熱運轉中按 **制热10℃** 按鈕

遙控器溫度顯示「10℃」。

## 解除時

再按一次 **制热10℃** 按鈕

■ 在提高設定溫度或切換為製冷、除濕模式時也可以解除。

### 關於製熱10℃運轉

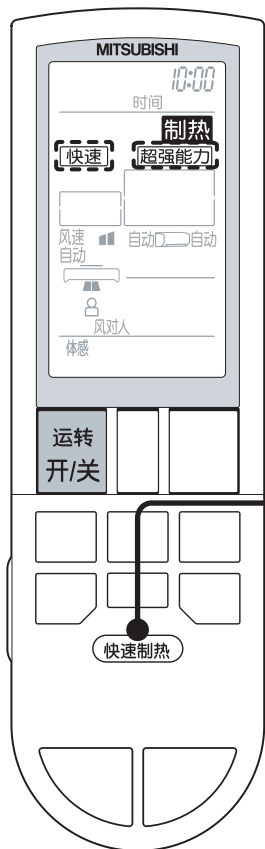
- 當您離開房間時關閉了空調，房間溫度會因空調停止運轉而下降。如此時您設定了製熱10℃模式運轉，可維持房間溫度約10℃，等您重新回到房間時就不會感覺到特別寒冷，同時也可改善房間的製熱效果。
- 在寒冷季節，如遇到外出度假等家中無人的情況，需要維持房間內一定溫度，可能會減少建築物等因溫度過低而導致其損壞的情況發生時，可設定製熱10℃模式運轉，此時空調消耗的電力比通常的製熱運轉有明顯的下降。



- 在製熱以外的運轉下不能進行製熱10℃運轉
- 在不解除的情況下停止運轉後製熱10℃模式不會保留，在再次開啓運轉時會回到原來的製熱運轉。

# 快速製熱運轉

在製熱運轉開始時，希望快速製熱。



■ 在製熱運行時，體感模式下，按 **快速制热** 按鈕進入快速製熱運轉。

風速切換為「自動」、上下風向切換為「自動」、左右風向切換為「風對人」。

## 解除時

再按一次 **快速制热** 按鈕

- 在按 **超强能力**、**睡眠**、**风速**、**风避人**、**全室送风**、**制热10℃** 時，切換運轉模式時，切換上下風向、左右風向時也可以解除。
- 快速製熱運轉在運轉開始1小時後會自動解除。
- 快速製熱運轉解除後，風速、風向恢復到設定快速製熱之前的狀態。

### 關於快速製熱運轉

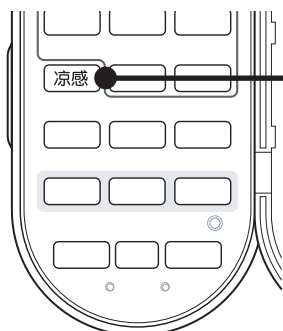
- 在約15分鐘內進行超强能力運轉，提高出風溫度，設定溫度提高約3℃運轉。
- 為了快速提高出風溫度，上面的上下導風板可能往水平吹，下面的上下導風板可能往下方吹。
- 快速製熱運轉在體感模式下有效。



- 在製熱以外的運轉下不能進行快速製熱。
- 在定時開時，不能進行快速製熱。

# 凉感運轉

要享受健康舒適、省電的製冷運轉時使用。



〈蓋子打開〉

■ 在製冷運轉時按 **凉感** 按鈕

遙控器上顯示「凉感」，上下風向顯示「擺動」。

## 解除時

再按一次 **凉感** 按鈕

- 按 **左侧**、**右侧**、**超强能力** 按鈕也會解除。

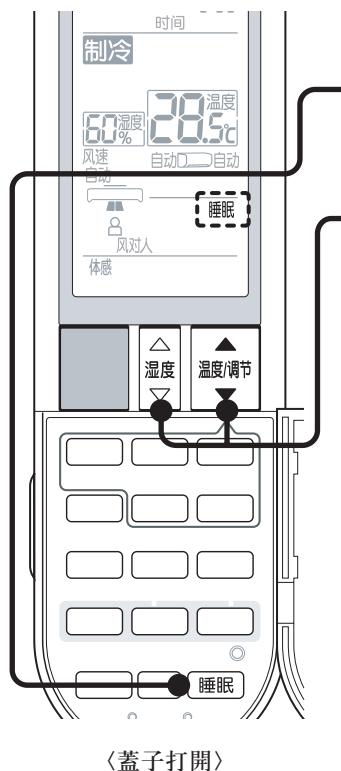


- 「風避人」運行時不能設定凉感運轉。
- 在擺動範圍的上端和下端，導風板會暫停一會兒。



# 睡眠模式運轉

避免睡眠時感到過冷、過熱時使用。



■ 在製冷・除濕・製熱運行中按 **睡眠** 按鈕

遙控器上顯示「睡眠」。

■ 設定睡眠運行的溫度・濕度

➤ 製熱的時候不能設定濕度。

➤ 除濕的時候不能設定溫度。

**解除時**

再按一次 **睡眠** 按鈕

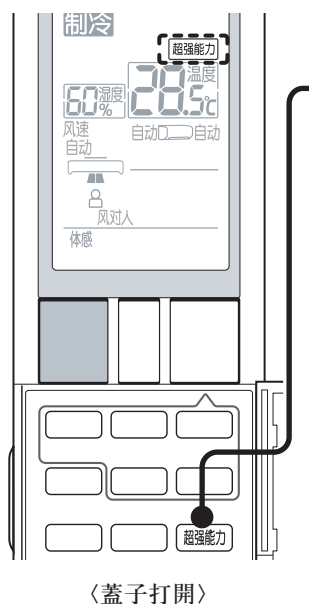
➤ 在按 **超強能力**、**風速** 按鈕或切換運轉模式的時候也可以解除。

**關於睡眠模式運轉**

- 製冷・製熱・除濕運轉時，約30分鐘時間運轉設定睡眠模式前的設定溫度・濕度。約30分鐘之後切換到睡眠模式的設定溫度・濕度。
- 一旦設定了睡眠模式的溫度和濕度，等下次再按 **睡眠** 按鈕的時候，則顯示上一次的設定溫度・濕度。
- 若按 **睡眠** 按鈕，室內機顯示變暗，風速變為「自動」，以靜音模式運轉。

# 超強能力運轉

請在希望超強製冷或超強製熱的時候使用。



■ 在製冷・製熱運轉中按 **超強能力** 按鈕

遙控器上顯示「超強能力」，風速變為「自動」。

**解除時**

再按一次 **超強能力** 按鈕

➤ 按 **睡眠**、**風速**、**涼感** 按鈕時或切換運轉模式時候也可以解除。

➤ 超強能力運轉運行約1個小時後，自動解除，「超強能力」的顯示也消失。

➤ 如超強能力運轉解除，風速變回設定前的風速。

**關於超強能力運轉**

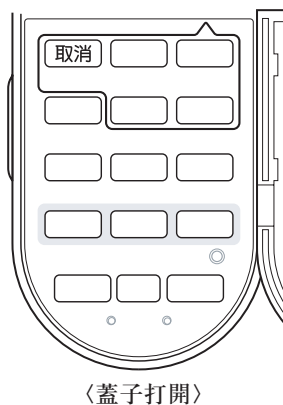
- 製熱運轉時，約15分鐘按超強能力模式運轉、提高出風溫度，設定溫度提高約3℃運轉。
- 製冷運轉時，設定溫度降低約3℃運轉。



- 在製冷・製熱以外的運轉下不能進行超強能力運轉。
- 定時開時，不能設定超強能力運轉。
- 製冷的時候，若開了「體感」，有可能即使按了 **超強能力** 按鈕也不能馬上切換到超強能力運轉。在這種情況下，約3分鐘後會切換到超強能力運轉模式，吹出冷風。

# 簡單定時

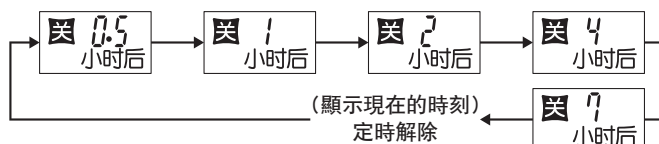
在設定時間後開／關空調。  
只需一個操作按鈕，便可設定簡單定時。



## 簡單定時關

在運轉模式中，按  按鈕

每按一次，按如下順序切換。



➤➤ 簡單定時關，可設定為0.5、1、2、4、7小時後定時關機。

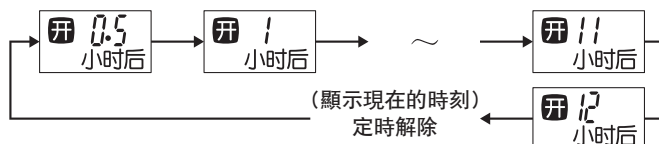
<簡單定時關的設定例>



## 簡單定時開

在運轉或停止時，按  按鈕

每按一次，按如下順序切換。



➤➤ 簡單定時開，可設定為0.5、1、2、3、4、5、6、7、8、9、10、11、12小時後定時開機。

➤➤ 如在運轉時中設定簡單定時開，在設定後會自動停止運轉，取消後會恢復運轉。

<簡單定時開的設定例>



## 解除時

按  按鈕

➤➤ 按  按鈕，定時預約會解除，全部的運轉會被停止。

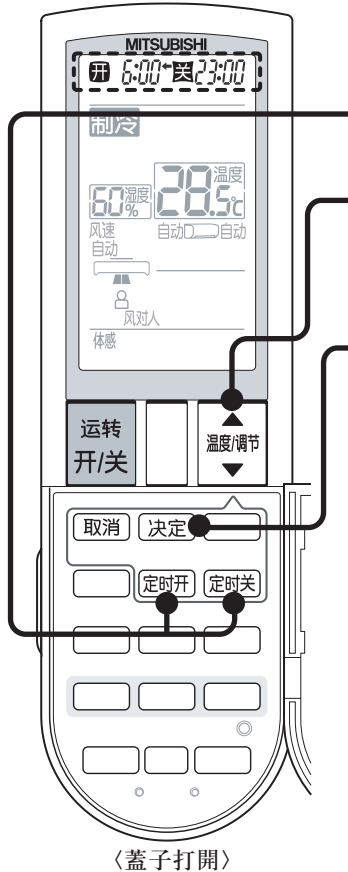
- 簡單定時開和簡單定時關不能一起使用。希望同時設定定時開和定時關的時候，請使用時間設定定時器。
- 簡單定時器和時間設定定時器不能一起使用。
- 設定簡單定時開的時候，在運轉停止中室內機的體感溫度顯示部會顯示“0”。
- 定時預約時，時刻的顯示消失。

# 時間設定定時器

能以10分鐘為單位同時設定空調的定時開/定時關時間。

設定好的定時器僅針對一次的運轉，所以每次使用時需重新設定。

- 請比對現在的時間進行設定。若不設定現在的時間，則不能使用時間設定定時開/關。
- 定時開在停止狀態下也可以設定。



**1 在運轉中按 [定时开] 或者 [定时关] 按鈕**

**2 按 [温度/调节] 按鈕，調整到想預約的時間**

➤ 以10分鐘為單位切換。持續按住按鈕的話能快速切換。

**3 按 [決定] 按鈕**

室內機會發出“嗶嗶”音。

「开」或「关」點亮，定時器設定完成。

➤ 要同時使用定時開和定時關時，按**1**→**2**→**3**的順序反復操作。

➤ 要變更設定時間時，按**1**→**2**→**3**的順序操作。

➤ 如在運轉時設定定時開，在設定後會自動停止運轉。

〈同時設定定時開/定時關的例子〉

例如) 現在的時間: 22:00, 23:00時停止→次日早晨6:00開始運轉

**1 按 [定时关] 按鈕，按 [温度/调节] 按鈕調整到想預約的時間，按 [決定] 按鈕**



**2 按 [定时开] 按鈕，按 [温度/调节] 按鈕調整到想預約的時間，按 [決定] 按鈕**



➤ 距離現在的時間近的定時器先動作。

➤ 指示定時器的動作順序。

**要設定溫度和濕度時，請先按 [決定] 按鈕再設定**

## 解除時

**按 [取消] 按鈕**

➤ 在定時開/定時關當中想取消其中一個，請按想解除的定時器按鈕。  
然後按取消按鈕。

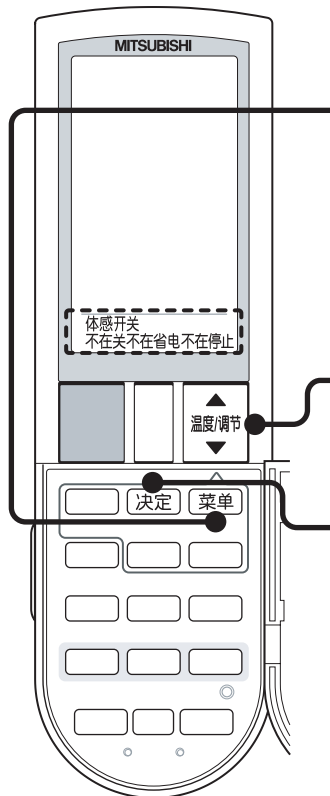
➤ 按 [运转开/关] 按鈕，定時預約解除，所有的運行被停止。



- 設定好定時器後，請把遙控器放在遙控信號能達到室內機的地方。定時器的設定時間到達後，即使遙控器的信號達不到室內機，定時功能也會動作，但是動作的時間有可能會與設定時間有偏差。
- 定時開設定後，即使在運轉停止中室內機的體感溫度顯示部也會顯示“开”，在遙控器內顯示運轉設定內容。
- 在「开」或「关」閃爍的狀態下，若約30秒不操作的話，調整好的定時設定時間會被解除。

# 菜單切換（體感・不在省電）

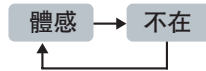
通過菜單切換，可以設定「體感」「不在省電」。



〈蓋子打開〉

## ■ 按 **菜单** 按鈕，選擇想變更的項目

被選擇項目的內容會閃爍。每按一次，按如下順序切換。



## ■ 按 **溫度/調節** 變更設定

設定項目的內容會閃爍。

## ■ 按 **決定** 按鈕

室內機會發出“嗶嗶”音。

➤ 要若不按 **決定** 按鈕，則變更內容無效。

➤ 設定中若按 **取消** 按鈕、**运转/开/关** 按鈕或者約30秒不操作時，會恢復到設定前的狀態。

## 關於不在省電運轉和不在停止運轉

### [不在省電運轉]

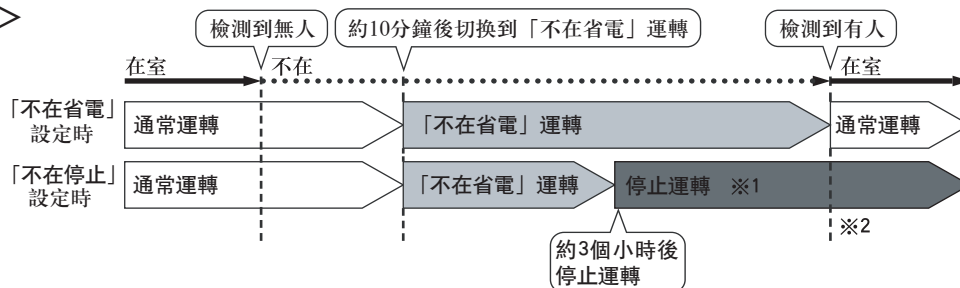
■ 若人感MOVE EYE檢測到房間無人時，從無人（不在）開始10分鐘後自動切換設定溫度，進行「不在省電」運轉。若檢測到有人時，回到「不在省電」運轉之前的運轉模式。

・製冷：設定溫度提高約1℃ ・製熱：設定溫度降低約1℃ ・除濕：設定濕度提高約10%

### [不在停止運轉]

■ 若人感MOVE EYE檢測到房間無人時，從切換到「不在省電」運轉開始約3個小時之後機器自動停止運轉。停止運轉的情況下，即使檢測到有人也不會重新起動。此時，請用遙控器起動運轉。

### <運轉事例>



※1 運轉中一次也未檢測到有人時，即使設定了「不在停止」，也不會停止運轉。

※2 按照不在停止設定而停止運轉的場合，即使檢測到有人也不會自動重新起動。請用遙控器起動運轉。

● 如下情況下不能檢測到有人，即使有人也可能會進行「不在省電」運轉和「不在停止」運轉，建議設定為「不在關」（即將「不在」功能設為「關閉」）。

・幼兒、寵物等肌膚面積小的場合 ・在炎熱的夏季等，地面、牆壁溫度高，與人體溫度相差少的場合  
・蓋上被子、穿着厚實，肌膚沒有露出來的場合 ・不在人感MOVE EYE檢測範圍內的場合

● 「不在省電」運轉時，遙控器上溫度和濕度的顯示不變化。

● 按照不在停止設定，即使運轉停止時，遙控器的顯示也保持運轉時的顯示不變。

● 要再次運轉時請按 **运转/开/关** 按鈕，然後再開啓運轉。

● 若預約了定時關，則優先運行定時關。

● 睡眠模式，超强能力運轉時，不能進行「不在停止」和「不在省電」運轉。



## ■ 功能切换的運轉項目

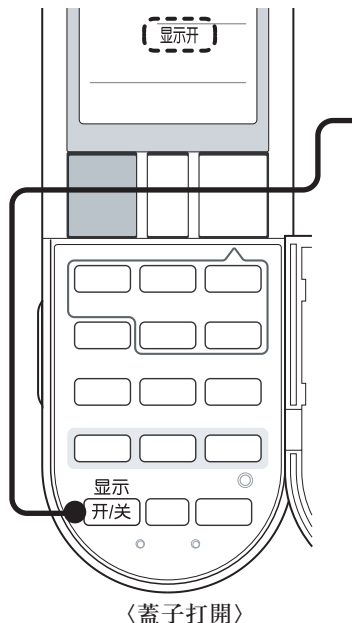
項目	設定	運轉內容說明	遙控器的顯示	
			設定時	設定後
體感 (出廠設定：開)	開	人感MOVE EYE開始工作，不僅室溫，還考慮到地面溫度、人的位置及運動，是能夠控制人實際能夠感覺到的溫度（體感溫度）的運轉模式。 ● 使用體感製冷運轉，還兼顧到濕度控制。	▶ 體感開	體感
	關	僅根據室溫的運轉模式。 人感MOVE EYE不工作。	▶ 體感 關	無顯示
不在省電 (出廠設定：關)	關	維持遙控器的設定運轉。	▶ 不在關	無顯示
	不在省電	房間內無人時，自動切換到省電運轉。 ● 請把「體感」設定為「開」。	▶ 不在省電	不在省電
	不在停止	房間內長時間無人時自動停止運轉。 ● 請把「體感」設定為「開」。	▶ 不在停止	不在停止



● 遙控器的電池更換之後按「復位」鍵，則恢復到出廠設定。

# 切换室内機顯示燈

如設定為「關」，室內機的區域顯示燈熄滅，運轉和體感溫度模式的顯示燈會變暗。



■運轉中或者停止中的時候，按 **顯示開/關** 按鈕

遙控器上會顯示「顯示關」。

➤ 購買時，顯示被設定為「顯示開」。

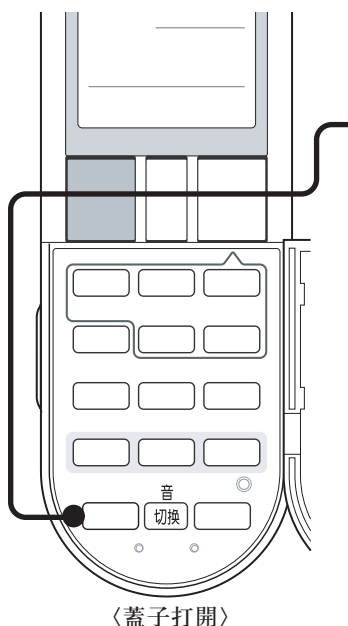


● 即使設定為關，但如下情況的時候顯示會短暫變亮。

- 運轉中變更設定溫度的時候：顯示設定後的溫度
- 運轉中變更溫度以外的設定時：顯示現在的體感溫度（室溫）

## 切换操作音

對室內機的接收音，能够選擇音階的有／無。



■運轉中按 **音切换** 按鈕

遙控器上無相關顯示。

➤ 出廠時，設定為「有音階」。

### 有音階的時候

接受遙控器信號後，實施了如下操作時，從室內機發出不同的音階聲。

- 從停止狀態到開始運轉時以及運轉中變更運轉模式時，用3個連續音，提示運轉模式。
- 變更設定溫度及設定濕度等時候，用連續音提示。

### 無音階的時候

接受遙控器信號後，無音階變化，室內機發出的是單一的聲響。



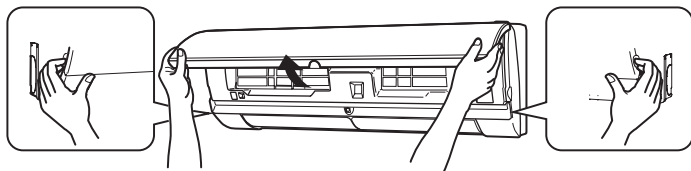
- 遙控器上不顯示「有音階」「無音階」。
- 若將設定溫度設到16℃或31℃，以及將設定濕度設到40%或70%的時候，會發出“嗶嗶”音。

# 維護部品

- 處理空氣過濾網的時候，請按照1～2的順序操作。發現空氣過濾網髒時請維護（清洗）。
- 在處理其它各部品的時候，請按照各部品拆卸方法。

⚠要處理的時候，爲了安全，請拔掉電源插頭或切斷電源。

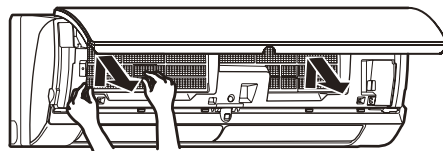
## ① 面板



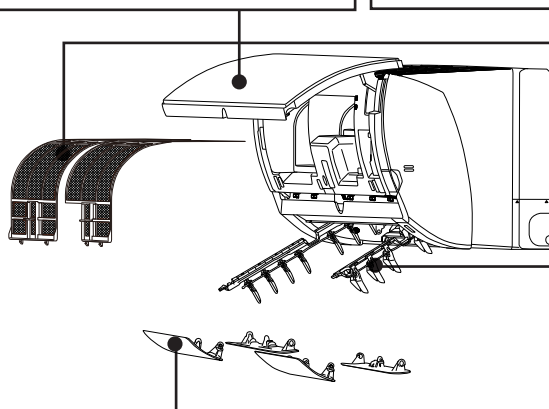
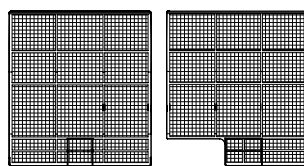
用手扣住打開，翻開到支撐位

➤ 處理的時候，請勿站在不穩定的臺子上。否則會有滑倒受傷的可能。

## ② 空氣過濾網（左右2張）

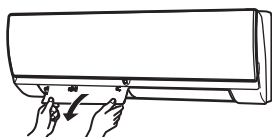


用手抓住空氣過濾網把手部，略微向上抬後向外抽出。



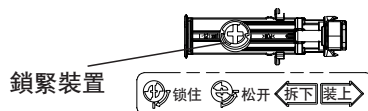
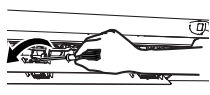
## 上下風向導風板（左上、左下、右上、右下4片）

### 1 將導風板向下打開

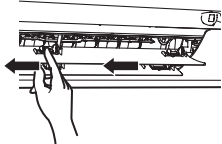


請輕輕的緩慢打開導風板，否則可能會造成相關部件的損壞。

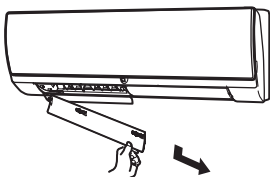
### 2 使用螺絲刀鬆開導風板上的安全擋塊的鎖緊裝置



### 3 沿箭頭方向拆下安全擋塊



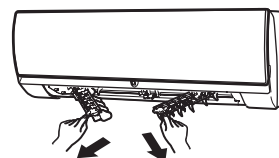
### 4 拉出導風板



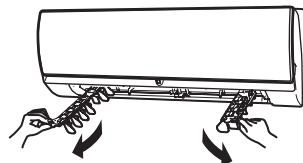
左上、左下、右上、右下4片導風板分別按①～④步驟拆卸。拆卸時應按先上後下的順序。

## 左右風向導風板

### 5 按住手柄按箭頭方向拉出



### 6



# 部品的清潔維護（清潔方法）

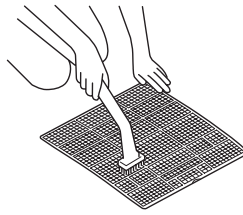
注：在灰塵多，有烟的地方，厨房等周圍有油垢的地方使用時，若覺得太髒，請把過濾網從室內機拆下清潔。

## 空氣過濾網

1. 用吸塵器吸掉灰塵或用水洗。
2. 用柔軟的布擦去水分，並陰干。

### 注意

- 請勿使用刷子或掃帚來搓過濾網。
- 污垢嚴重時，用溶有中性清潔劑的溫水清洗，用水漂洗干淨後，並陰干後安裝。
- 請勿日光照射及烤爐，吹風機等方法干燥過濾網，會導致變形或變色。
- 請勿用50℃以上的熱水清洗。



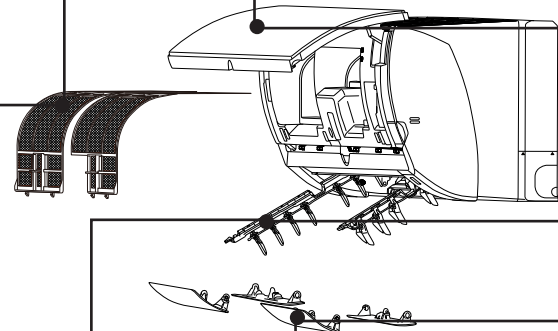
※按住過濾網，不要使之變形。

## 面板（若發現污垢）

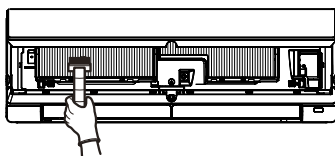
請使用軟布擦拭。

### 注意

- 污垢明顯時候，用布沾少許溶有中性洗滌劑的溫水擦拭。
- 請勿使用汽油、揮發油、稀釋劑、摩擦粉等。
- 請勿使用刷子，海綿等硬物清洗。
- 請勿直接對面板水洗。
- 請勿直接日光照射及烤爐，吹風機等方法干燥，會導致變形或變色。
- PAH系列嚴禁使用市場上銷售的注明不可用於清洗金屬製品的清洗液擦洗室內機面板。



## 熱交換器（如發現污垢時）



先拆下空氣過濾網。

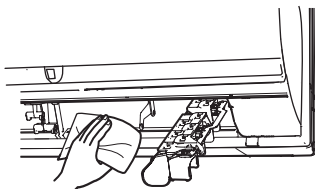
用吸塵器（帶刷）吸掉灰塵

### 注意

- 使用刷子時，請不要用力刷。
- 請戴上手套操作。
- 請勿使用腐蝕性液體擦拭。

## 出風口，上下導風板，左右導風板，風葉（發現髒污時）

請使用軟布擦拭



### 注意

- 請確認風葉已經停轉。
- 污垢明顯的時候，用布沾少許溶有中性洗滌劑的溫水擦拭。
- 請勿使用汽油、揮發油、稀釋劑、摩擦粉等。
- 請勿直接日光照射及烤爐，吹風機等方法干燥，會導致變形或變色。
- 請勿對內部的風葉施加較大外力，因有斷裂的可能。

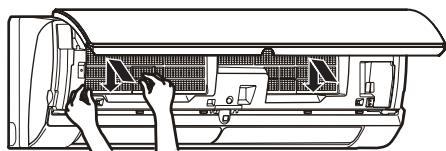


# 部品的安裝

- 空氣過濾網保養維護後，務必請按照1~2的順序安裝。
- 在處理其它各部品的時候，請按照各部品的安裝方法。

⚠要作維護保養的時候，爲了安全，請拔掉電源插頭或切斷電源。

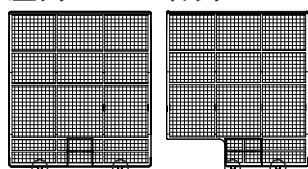
## ①空氣過濾網（左右2個）



〈空氣過濾網位置〉

左側

右側



表面

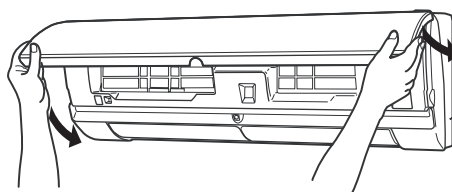
端部

表面

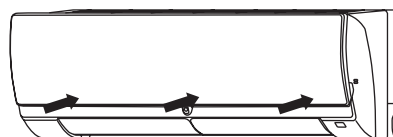
空氣過濾器上寫文字的一面朝外，沿過濾網導軌插入到底。端部插入到位。

## ②面板

### 1. 關閉

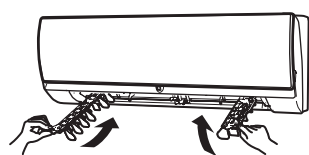


### 2. 按3個地方



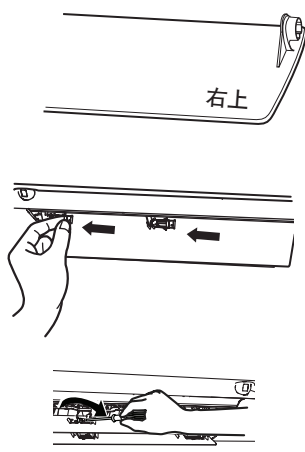
➡➡ 如面板沒有裝好，運轉時會產生異常音。

## 左右導風板



沿導風板的上側插入

## 上下導風板（左上、左下、右上、右下4片）



安裝在指定位置上。  
安裝時應按先下後上的順序。

將安全擋塊沿裝上方向移動，直到聽到“咔噠”聲爲止。  
如安全擋塊沒有裝好，全部的指示燈會閃爍，機組不能運轉。

鎖住鎖緊裝置。

## 最後

1. 插上電源插頭。
2. 按遙控器的運轉開/關按鈕，機組開始運行。

# 在請維修人員之前，請再次檢查以下內容

## 若室內機出現如下顯示

出現狀況	表示內容	
雖然開啓了運轉但不運轉時	體感溫度顯示部  在閃爍，其他的顯示部也全部為閃爍狀態	可能上下導風板的安全擋塊未安裝到位。 請切實地裝好安全擋塊直到聽到“嗒”的一聲。
製熱運轉中	體感溫度顯示部顯示 	正在融化室外機的結霜。（除霜運轉） 除霜運轉可能約30分鐘至1小時動作一次。 除霜運轉最長運行10分鐘，除霜結束後再次進入製熱運轉。
製冷或製熱運轉中	體感溫度顯示部顯示 	體感溫度的顯示範圍為8~37℃，每隔0.5℃顯示7.5℃以下顯示Lo、37.5℃以上顯示Hi。
停止時	體感溫度顯示部顯示 	定時開的待機中。
運轉開始後馬上	運轉指示燈和體感溫度顯示部的顯示變暗 	是否設定為睡眠模式或 遙控器的「體感顯示」是否設定為「關」？
不運轉	體感溫度顯示部的數字在閃爍  運轉指示燈也在閃爍	這是故障、運轉停止了。請與出售店或本公司售後服務中心聯系。 報修時請告知閃爍中的數字。

# 是否故障？

在委托修理前，請再次檢查以下各點。

是否故障？	回答。（不是故障）
不運轉時	空調機不運轉 室內機無顯示 <ul style="list-style-type: none"> <li>●空調專用線路的電源開關是否為OFF狀態？</li> <li>●電源插頭是否脫落？</li> <li>●遙控器的設定是否為「關」的狀態？</li> </ul>
	再次起動時約3分鐘不運轉 <ul style="list-style-type: none"> <li>●為了保護空調，保持停止。 3分鐘之後會運轉，請耐心等待。</li> </ul>
	除濕運轉中時風會減弱 <ul style="list-style-type: none"> <li>●為了防止室溫過低，出風減弱。</li> </ul>
	開始製熱運轉時，不出風 <ul style="list-style-type: none"> <li>●正在準備能吹出足夠溫暖的風。就這樣請等候。</li> </ul>
	人感MOVE EYE不動作 <ul style="list-style-type: none"> <li>●「體感」是否設定成「關」？ 如「體感」設定為「關」，區域測溫傳感器就不會動作。</li> </ul>
遙控器	製熱運轉中停止運轉大約10分鐘 <ul style="list-style-type: none"> <li>●正在融化室外機組上的結霜。最長10分鐘就完成。 請耐心等待。</li> </ul>
	不接收遙控器信號 遙控器無顯示 遙控器的顯示變淡 <ul style="list-style-type: none"> <li>●干電池是否用完？</li> <li>●電池極性（+）（-）是否裝反？</li> <li>●遙控器電池裝入後，是否忘了按「復位」鍵？</li> <li>●是否誤用了電視、錄像機的遙控器？</li> <li>●電視、錄像機的遙控器按住不放，空調機有可能會接收不到遙控器信號。</li> <li>●房間溫度過低的時候，空調機有可能會接收不到遙控器信號。</li> </ul>
感到過冷	製冷・除濕運轉時 感到過冷 <ul style="list-style-type: none"> <li>●製冷運轉時，設定溫度和風向是否適度？</li> <li>●室外溫度低的時候，會導致室內溫度下降。</li> </ul>

## 是否故障?

## 回答。(不是故障)

不冷  
/ 不熱  
/ 濕度降不下去

不冷  
不熱

- 設定溫度和風的強度是否適合?
- 風的強弱設定為 $\blacksquare$ 、 $\blacksquare$ (弱)的時候, 製冷和製熱速度可能會減弱。
- 請把風速改 $\blacksquare$ (中)、 $\blacksquare$ (強)。
- 空氣過濾網是否有污垢?
- 空調內部的風葉是否有污垢?
- 室內機和室外機的出風口, 進風口是否被堵住?
- 窗戶和門是否是開着的狀態?
- 根據房間的大小和室外溫度的影響, 可能會使達到設定溫度的時間變長、或者無法達到。
- 使用排風扇或煤氣竈的時候, 製冷負荷加重, 可能會導致製冷時間加長。

製冷運轉中  
吹出的風不冷

- 體感製冷運轉的時候, 因自動切換製冷運轉和除濕運轉來控制溫度和濕度, 所以接近設定溫度時會切換到再熱除濕運轉, 導致吹出來的風不是很涼。若不希望自動切換到除濕運轉時, 可以在菜單裏將「體感」設定為「關」。

達不到設定濕度的時候

- 房間濕度過高或室外溫度過低的時候, 有可能達不到設定濕度。

漏水  
/ 吹出霧氣

從室內機吹出口吹出  
霧氣的時候

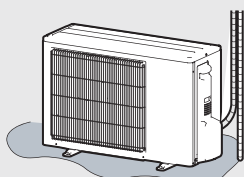
- 空氣中的水分遇到從室內機出風口裏吹出的冷風而迅速凝結成霧氣所致。

室內機漏水時

- 面板是否裝好?
- 室外的排水管端部是否壞掉或呈向上拉起的狀態?
- 以上內容確認之後, 仍有問題時請聯系出售店或本公司售後服務中心。

室外機組有水、水汽流出

- 製冷運轉中, 被冷卻的管道或管道接頭部有水滴凝結、滴下。
- 在製熱運轉中, 除室外機的結霜時, 會流出水或水汽。水汽看起來像白煙。
- 製熱運轉時, 熱交換器上的凝結水會滴下。由於溫度和濕度不同, 水量也不同。



- 這不是故障問題, 但是因漏水發生麻煩的時候, 請與出售店或本公司售後服務中心聯系商談排水工程事宜。
- 一部分寒冷地區, 因室外機結冰有可能無法實施排水工程。



## 是否故障？

## 回答。（不是故障）

風	風不能往右（左）吹	<ul style="list-style-type: none"> <li>●安裝位置是否正確？ 確認遙控器設定是否正確。</li> </ul>
	製冷・除濕運轉中 上下風向中途變更時 調整無效時	<ul style="list-style-type: none"> <li>●上下導風板的方向朝下方4~5狀態，大約持續30分鐘至1個小時時，爲了防止從上下導風板滴水，風向自動切換爲3的位置。</li> </ul>
	設定「風避人」，但仍吹到風 設定「風對人」，但仍吹不到風	<ul style="list-style-type: none"> <li>●有可能是人感MOVE EYE很難檢測到人體。 對風向不滿意時，可以調整上下・左右風向。</li> </ul>
	製冷運轉中 達到了設定溫度，風仍不停止時	<ul style="list-style-type: none"> <li>●製冷運轉時，室內溫度（體感溫度）即使達到了設定溫度，也不停止出風。按設定的風速運轉。</li> </ul>
	開始製熱時或運轉中 上下風向中途變化時 無法調整時 停止出風時	<ul style="list-style-type: none"> <li>●開始運轉，準備出暖風的時候，上下導風板成水平狀態。（約3分鐘）</li> <li>●正在融化室外機的結霜（除霜運轉）。 有可能大約30分鐘至1個小時之間運轉一次。 室外溫度低，濕度高的時候，容易結霜。 除霜運轉中，爲了防止出冷風，上下導風板爲水平狀態且不送風。 除霜運轉最長10分鐘結束。之後製熱運轉再次起動，但根據外氣溫度不同，可能還要等待幾分鐘才能吹出暖風。</li> <li>●室內溫度（體感溫度）高於設定溫度的時候，爲了防止過熱室外機將會停止運轉。此時，也爲了防止出冷風，上下導風板成水平狀態，以微風運轉。</li> </ul>
變色	室內熱交換器右側的鋁翅片變色呈類似燒焦的狀態	<ul style="list-style-type: none"> <li>●製造室內熱交換器時變色的。（由於焊接的熱度導致鋁翅片表面的樹脂塗層變色）。不是因爲空調的運轉產生的。 并且，也不會影響熱交換器的性能。</li> </ul>


## 是否故障？

## 回答。（不是故障）

音	有“嘶嘶”、“噶嗒”的聲音	<ul style="list-style-type: none"> <li>●由於溫度變化，面板膨脹或收縮可能會引起的聲音。</li> <li>●是冷媒控制閥動作的聲音。（製冷・除濕運轉時）</li> </ul>
	有水流聲、“噓噓”聲	<ul style="list-style-type: none"> <li>●是空調機內部冷媒流動的聲音或冷媒流向切換的聲音。</li> </ul>
	有“撲哧撲哧”的聲音	<ul style="list-style-type: none"> <li>●在開啓吸油煙機或通風扇時，從排水軟管吸進外部空氣，使排水軟管內的水流與空氣一起被吸上來而發出聲音。當外部風力很強的時候也可能發出聲音，請將排水軟管的出口避開風的方向放置。</li> </ul>
異味	空調吹出來的風有異味	<ul style="list-style-type: none"> <li>●空調吸入了混合有牆壁、地毯、家具、衣服等異味的空氣，再被空調吹出所致。 建議進行空調機的清掃。</li> </ul>
顯示	室內機的顯示看不清楚	<ul style="list-style-type: none"> <li>●睡眠運轉中或顯示設為關閉狀態時，顯示會自動變暗。</li> </ul>
	室內機的區域顯示部顯示的區域位置和人所在的實際位置不同	<ul style="list-style-type: none"> <li>●檢知人所在的區域可能要花約3分鐘時間</li> <li>●因為是檢知肌膚的溫度，若肌膚露出少，有可能無法正確檢知。</li> <li>●在炎熱的夏天開始運轉時地面溫度高的場合，有可能無法正確檢知人所在的區域。</li> </ul>
	體感溫度顯示部顯示的溫度與房間內溫度計顯示的溫度不符合 與遙控器的設定不符合	<ul style="list-style-type: none"> <li>●將“體感”設定為“開”的場合則顯示體感溫度。 因為體感溫度與室溫不同，所以與溫度計的顯示也有可能不同。</li> <li>●設定超強能力運轉的時候，若是製冷運轉則可能顯示溫度比設定溫度低3℃，若是製熱運轉則可能顯示溫度比設定溫度高3℃。</li> </ul>

# 用戶須知

## 關於運轉


- 如空調在右表所示以外的室外環境溫度下運轉時，可能會起動保護裝置，從而可能會導致空調不運轉。
- 在室內濕度80%以上的條件下長時間運轉製冷・除濕時，可能造成室內機的吹出口處凝露并滴下來。
- 因停電導致空調停機後，恢復供電後空調仍是停機狀態。  
此時，請按遙控器的  按鈕再次起動空調。

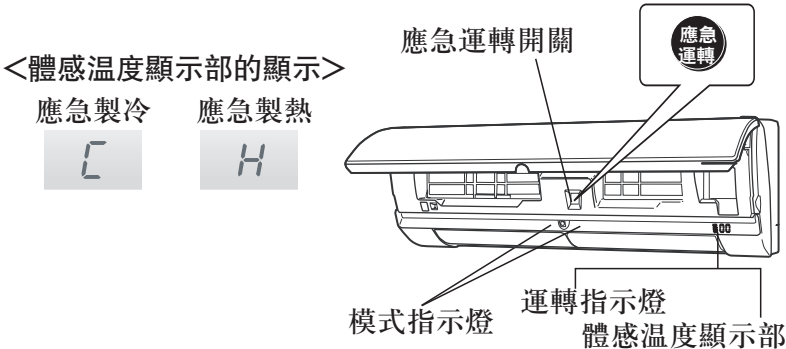
運轉	室外環境溫度
製冷運轉	約21～43℃
除濕運轉	約1～43℃
製熱運轉	24℃以下

## 遙控器不能使用的時候（應急運轉）



當遙控器發生故障或沒有電池的時候，可以使用室內機的應急運轉開關開啓空調。

### 1 按應急運轉開關

- 每按一次，按如下順序切換。
- 應急製冷 → 應急製熱 → 停止
- ※不能進行除此以外的運轉模式
- 開始的30分鐘內不能調節溫度會連續運轉，  
風速是 （強）。



30分鐘之後，運轉內容如下表所示。

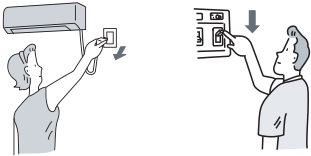
運轉內容	製冷	製熱
設定溫度	24℃	24℃
風速	 （中）	 （中）
上下導風板	自動	自動

## 停止的時候 按應急運轉開關

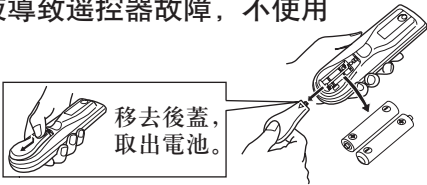
## 長時間不使用的時候

爲了防止空調故障以便長期使用空調機，請注意如下事項。

1. 停止運轉後，請拔下電源插頭或切斷空調器開關電源。



2. 爲了防止電池漏液導致遙控器故障，不使用時請取出電池。



## 再度使用時

1. 請確認室內機和室外機的出風口和進風口沒有被堵塞住。
2. 請確認接地線沒有鬆動/脫落，  
接地線有可能安裝在室內機側。



## 電氣工程的注意點

- 請務必使用空調專用的電源。
- 請遵守電源開關的容量要求。

## 移裝空調時請與專業人員聯系

- 因增改建房間或搬家需要拆裝空調時，  
請與出售店或本公司售後服務中心聯系。

在請維修人員之前，請再次檢查以下項目。

發生以下故障時，不是空調機本身故障問題。

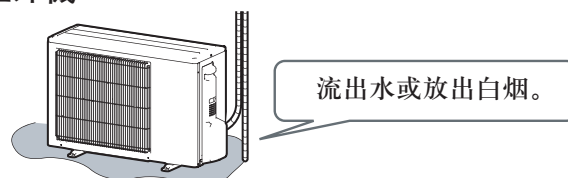
當您認為「發生故障」時

■製熱運轉中...



製熱運轉剛開始防止冷風吹出時、除霜運轉中、室內溫度超過設定溫度時，自動設定為水平方向吹出。

■從室外機...



製熱運轉時，從室外機流水或因除霜產生水蒸汽看似白烟。

■空調不能接收遙控器信號

內容請見第23頁。

■體感溫度顯示「FL」，並全部的顯示燈閃爍。

請重新安裝上下導風板。

出現以下情況時，請聯系維修人員。

- 確認完第23頁事項，室內機仍有漏水時。
- 遙控器無法進行操作時。  
(可變頻熒光燈點亮時，及液晶，等離子電視機電源插入時。)
- 電源綫發熱時。  
(當使用的插座松動時)
- 運轉指示燈和體感溫度顯示部的數字閃爍時。
- 電源綫出現部分破損時。
- 當電視機或收音機有干擾時。  
(推薦在無線電接收弱的地區安裝信號放大器)
- 往空調機內插入異物或有水灑在空調上的時候。
- 空氣開關經常跳閘時。

若有不明之處及需要維修時，請與出售店或本公司售後服務中心聯系。

# 移機・檢查

## 檢查維修

- 空調機用過幾年之後因內部骯髒。性能將減低。
- 因使用狀況而可能發生臭味，或因堆積塵垢而造成冷凝水的排水不良。
- 與普通的檢查維修不同，最好請專門技術人員為您服務。請與出售店或本公司售後服務中心聯系。

## 運轉噪聲問題也須考慮

- 室外機組的排風口附近不可堆置東西。因為將會減低機器效能也可能增大運轉噪聲。
- 運轉作用中，如果發生異常聲，即請與出售店或本公司售後服務中心聯系。

## 要移機時

- 因增改建房間，遷居而須拆卸下空調機及再安裝時，必須找專門技術人員為您服務。

### ⚠警告

用戶請不要自己修理或移設空調機。

如果處理不當，便有發生火災、觸電、機組掉落傷人、漏水等危險。如製冷劑中有空氣等物質混入，會導致壓力升高，發生破裂等。因此請與出售店或本公司售後服務中心聯系。

# 安裝安全事項

## 1. 為確保安全，請注意下列各項

### ⚠警告

用戶不可自行安裝。	安裝或移機時製冷劑回路中不能混入除製冷劑以外的其他物質。
如果安裝不妥，可能引起火災、觸電、零件掉下傷人或漏水等。 請與出售店或本公司售後服務中心聯系。	如果空氣等物質混入會導致系統壓力升高、發生破裂等。
機器必須安裝在能承受相當重量的地方。	安裝或移機時切勿封入指定以外的製冷劑。
如果安裝在強度不夠的地方，將有機組掉下傷人的危險。	若封入指定以外的製冷劑，可能成為運轉不暢、誤動作、機械故障等問題的起因，有時甚至有發生重大安全問題的可能性。
室內外機組之間的配綫，須使用規定的電綫連接妥當，并使接綫端子不直接受到外力的影響確實固定好。	回收製冷劑時，在拆下連接管前先關閉壓縮機。
連接或固定不好，可能引起火災事故。	如果當壓縮機運轉并截止閥開啓時，拆下連接管會有空氣混入，會造成系統壓力異常升高，造成管子爆裂或引起傷害。
安裝工作必須根據安裝說明書準確地實施。	裝機時，在啓動壓縮機前確保管子安全的連接。
如果安裝得不妥，可能引起火災、觸電、零件掉下傷人或漏水事故。	如果在管子連接完成前，并在截止閥開啓時運行壓縮機，會有空氣混入，會造成系統壓力異常升高，造成管子爆裂或引起傷害。
安裝施工中如發生製冷劑泄漏，請進行換氣。	電氣施工應按照安裝說明書實施，請一定要使用專用電路電源。
製冷劑與明火接觸會產生有毒氣體。	電源電路如果容量不夠或施工不完全、可能發生火災或有觸電的危險。



## ⚠警告

室內機組的電氣蓋和室外機組的維修板須確實安裝好。	請一定按照安裝說明書進行排水和配管施工。
室內機組電氣蓋和室外機組的維修板如果不裝好，則可能因為灰塵、水份進入而造成火災或觸電危險。	排水和配管施工如果有不妥當的地方或室內機組傾斜將可能產生機組滴水弄濕、污損家具物品等情况。
安裝施工用部件，必須使用附帶的和規定的部件。	連接導線的中途引線是一定不可採用的。
採用部件不當，可能引起火災、觸電、或機組掉下傷人、漏水等事故。	一定會產生機組誤動作，造成機組無法正常運行。
電源線路的中途引線，使用延長電源線，或使用多孔插座線等都不可采用。	在雨水、小蟲、異物等可能進入室內的場合，必須密封製冷劑管道穿過的外牆孔。
接觸不良，絕緣不良，或超載等都可能引起觸電事故。	電氣施工應按照安裝說明書實施，請一定要使用專用電路電源。
須做接地施工。	請嚴格按照GB17790《家用和類似用途空調器安裝規範》進行空調器的安裝。
空調插座應連有專門接地線，如果沒有接地線或地線沒有連接好，可能引起觸電事故。 地線切勿接到煤氣管、自來水管、避雷針導線，電話接地線上。	請遵照國家的接線規則安裝本機組。
禁止安裝在有可燃性氣體泄漏的地方。	安裝施工完畢後，須確認是否有泄漏製冷劑氣體的地方。
萬一可燃性氣體泄漏而聚集在機組周圍，可能引起爆炸事故。	如果電源軟線損壞，必須使用專用軟線或從製造廠或維修部門買到的專用組件來更換。
應裝有漏電保護器。	此外，如果還有不明白的地方，即請找機器的出售店或售後服務中心聯系。
如不裝上漏電保護器，可能引起觸電事故。	

## 2. R410A製冷系統注意事項

### 2-1 適用R410A製冷劑的空調器

#### ⚠警告

- 使用C1220銅磷料(用於銅和銅合金製成的無縫管)連接製冷劑管。確保管內壁清潔，不含有硫化物、氧化劑、碎屑或灰塵等任何有害的臟物。  
務必使用指定厚度的管道。
- 使用脂油、乙醚油、烷基苯油(少量)作為製冷劑油，塗在喇叭口的部分。如果把礦物油混入製冷劑油中，油質可能變差。
- 切勿使用R410A以外的製冷劑。如果使用其它製冷劑，氣會使油變質。
- 使用以下專門為R410A製冷劑設計的工具。使用R410A製冷劑時必須使用以下工具。請諮詢就近的經銷商。

工具(用於R410A)	
壓力表	擴口工具
加液軟管	尺寸測量器
檢漏儀	真空泵轉接頭
扭矩扳手	電子秤

- 務必使用正確的工具。如果灰塵、碎屑或水氣進入製冷劑管，製冷劑油的油質可能變差。
- 切勿使用簡易加液鋼瓶。如果使用簡易加液鋼瓶添加製冷劑，製冷劑的成分會改變，引起效率降低。

### 2-2 使用R410A製冷劑設備的注意事項

#### ⚠警告

- 安裝或移動空調器時，務必使用指定的製冷劑(R410A)充注製冷劑管。切勿與其他製冷劑混合，管內也不要殘留空氣。殘留在管內的空氣在壓力增大時，會使管道爆裂，並引起其他危險。

MSZ-(P)AH09/12VA-H1	
液體管	φ6.35厚0.8毫米
氣體管	φ9.52厚0.8毫米

- 切勿使用管壁比上述指定厚度薄的管道。  
真空泵切勿與R22製冷劑系統共用。

## 安裝時、使用時的注意事項

- 安裝空調時，請與本空調器的出售店或售後服務中心聯系。

請不要在下述容易發生故障的地方安裝空調器。

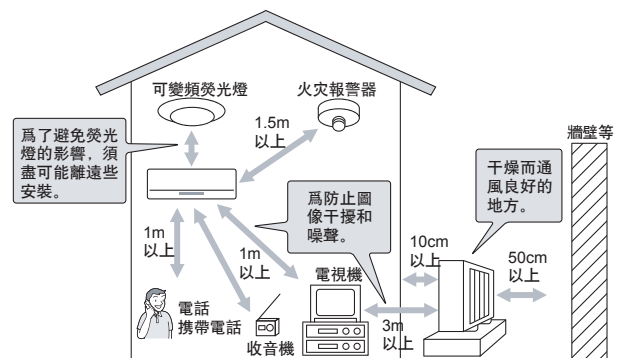
- 應避開有易燃氣體泄漏危險的地方。
- 有高頻超聲波的機器，無線電機器的地方。
- 機油等使用較多的地方。
- 海邊等鹽份較多的地方。
- 溫泉地帶。有硫化氣體的地方。
- 有油飛濺或油煙較多的地方。
- 因積雪造成室外機堵塞的地方。
- 吊車、船舶等移動的地方。
- 選擇在進出氣流不被擋住的地方。
- 選擇吹出冷氣可以到達房間各地方。
- 室內機組與室外機組最大距離及最大高度差：參考“極限管道長度”。
- 不至於發生振動的堅固牆壁上。
- 避免陽光直射的地方。
- 距離電視機、收音機1m、電視天線3m以上的地方（否則可能干擾電視影像或產生噪聲）。
- 盡可能遠離日光燈、白熾燈處（否則可能使無線遙控不能正常地操作）。
- 可自由、方便地進行裝、卸空氣過濾網的地方。
- 選擇受大風和大雪影響小的地方，如在嚴重降雪的區域內安裝，請必須進行防雪處理（建議安裝遮蓋篷和/或底座機架）。
- 選擇通風良好，灰塵少的地方。
- 不容易雨淋或陽光直曬的地方。
- 其他環境大氣有問題的地方。
- 避免安裝在有揮發性、腐蝕性、可燃性化學品的地方。

※容易排水的地方。

※在通風條件惡劣及易引發氣流短路的地方，可能會引起製冷、製熱性能下降及耗電量上升，程度約有10%。此時請安裝導風罩（需另外購買），能改善空調機的性能。

- 為了不使運行噪音或振動增大，應牢靠地安裝在牢固的機架上。
- 不要使運行噪音或吹出熱風有妨礙鄰居的地方。
- 請勿在室外機出風口附近放置物品。否則可能會導致空調機性能下降和運轉噪音變大。
- 當機組安裝在高處時，務必固定機腳。
- 務必水平安裝。
- 便於保養維修。
- 使用中、如發生異常音，請與本空調器的出售店或售後服務中心聯系。

電視機或收音機等無線接受設備需距離室外機3m以上，如這樣還有明顯信號干擾時，可再加長相互間距離，以提高接受質量。  
火災警報器與室內機出風口請保持1.5米以上的距離。



## ⚠️ 注意

- 在新購家俱、裝修房間、地面打蠟時，請不要使用空調。裝修完成後，如果要使用空調，請先對房間進行充分的通風換氣。否則可能會因打蠟時產生的揮發物質附着在空調機內部，而導致空調機漏水或飛露。

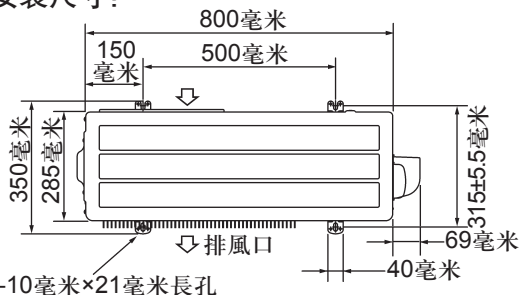
# 安裝說明

## 1. 安裝簡圖及附件

**裝箱單** (在安裝之前, 請客戶根據裝箱單內容核對零件數量)

零 部 件 名 稱			數量	零 部 件 名 稱			數量
安裝代號		安裝代號					
室 內 機		室內機	1	室 外 機		室外機	1
	①	安裝板	1		Ⓐ	連接電綫	1
	②	螺釘4×25毫米	5		Ⓑ	連接配管	1
	③	電池(7號)	2		Ⓒ	穿牆套筒	1
	④	遙控器	1		Ⓓ	牆孔蓋	1
	⑤	毛氈包扎帶	1		Ⓔ	管道包扎帶	1
		保用登記證	1		Ⓕ	延長排水軟管	1
		使用安裝說明書	1		Ⓖ	集中排水組件	1
					Ⓗ	膩子	1

外形安裝尺寸:

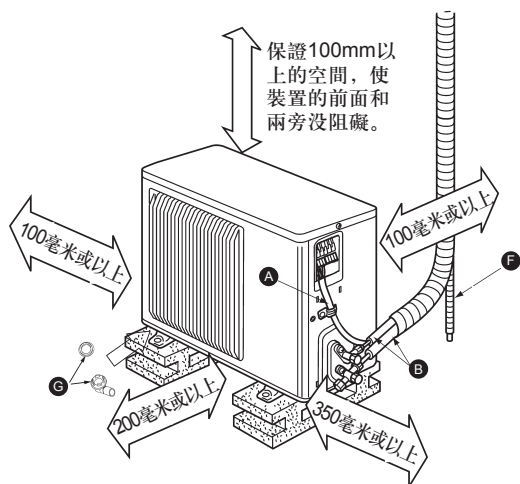


**⚠注意**

(1)在寒冷地區不要使用此排水  
管接頭及橡膠塞Ⓖ，可能會  
因排水凍結而發生故障。

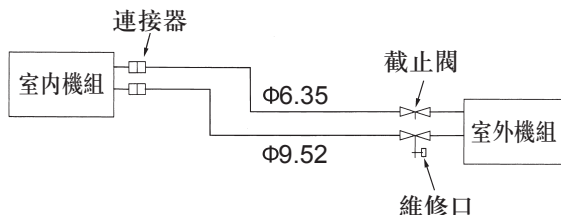
## 排水管安裝步驟

- (1)在底座上選擇一個排水孔作爲排水用，將排水管接頭裝在該孔上。
- (2)用橡膠塞將底座上剩余的排水孔封掉。
- (3)將排水管與排水管接頭連接，爲使排水順暢，請保持排水管向下傾斜。



## 擴口連接

- 本機組在室內和室外側備有擴口連接部位。
- 如下圖所示，製冷劑管道用於連接室內和室外機組。

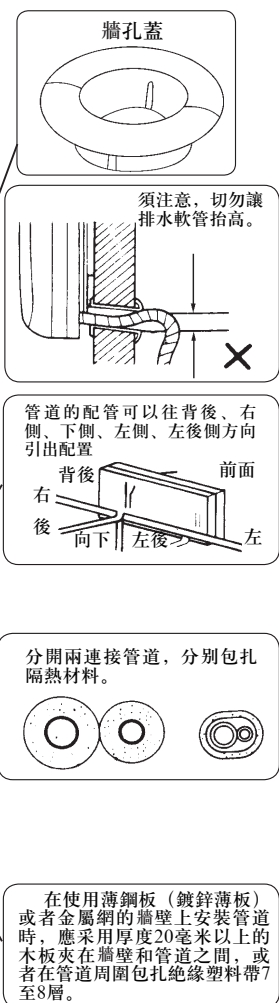


極 限	
管道長度	12米
高 度 差	8米
彎管數量	10處

- 製冷劑調節…如果管道長度超出下表範圍時，則需要補注製冷劑(R410A)。(加注有製冷劑的室外機組適用於以下管道長度以內。)

管道長度	機型	需要添加製冷劑的量
超過6米	MSZ型(變頻)	30克×(冷氣管長度(米)-6)

- 說明：延長配管過長會導致製冷製熱能力下降。



機組必須按照當地規定由持有執照的承包商安裝。





### ⚠警告

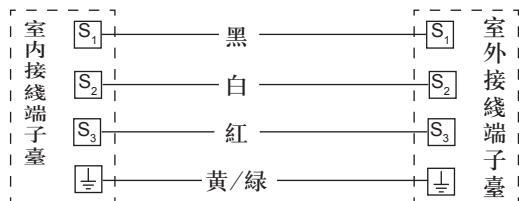
- 室內外機組之間的配線，須使用規定的電線連接妥當并使接線端子不直接受到外力的影響確實固定好。
- 如果連接或固定不妥，可能引起火災事故。
- 電線固定夾、電氣蓋必須確定固定好，如沒有裝好，則可能因為灰塵、水份進入而引起火災或觸電事故。
- 注意不能連錯線。
- 如果地線連接錯誤，有可能導致觸電。

### ⚠注意

- 旋緊端子螺釘以防松脫。
- 旋緊螺釘後，輕輕拉動電線確認是否能拉動。
- 如果接線不正確，空調機就不會正常運轉。

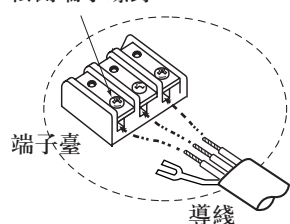
### ⚠警告

- 室內外接線端子臺之間的連接電線必須按標注號碼一一對應連接。

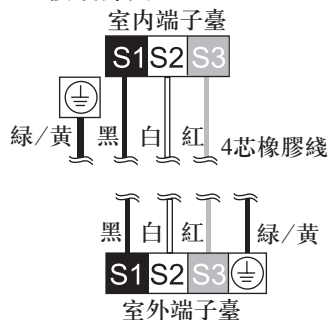


## MSZ型 變頻型

松開端子螺釘



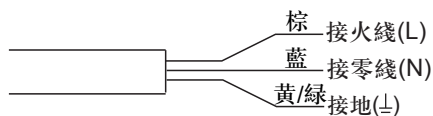
<接線詳圖>



### ⚠警告

- 家中電源插座內火線、零線、接地線必須按如圖連接，位置不能接錯，并連接可靠，無內部短路。
- 連接錯誤，有可能導致火災。

## 電源檢查 用戶家中供電插座示意圖



## 2-5 自動重新啓動功能

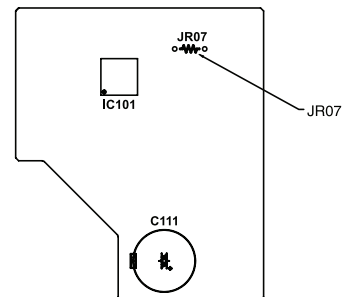
使用遙控器控制空調機時，室內電控基板會記憶運轉模式、設定溫度以及風扇速度，如果運轉時發生斷電，自動重新啓動功能就會在恢復供電後工作，使空調機自動重新啓動。

### 如何設定“自動重新啓動功能”

- ① 卸下前面板，卸下應急運轉開關組件。
- ② 卸下電氣蓋的螺釘。  
拆下電氣蓋。
- ③ 從CN151拔下葉片電動機接頭，從CN1R1拔下限位開關接頭。  
拆下電氣盒內的風葉電動機導線。
- ④ 拉出電控基板，切斷其上的電阻JR07。

### 運轉

- ① 如果切斷了主電源，運轉設置仍被保留。
- ② 恢復供電3分鐘後，空調機會根據存儲器記憶的內容自動重新啓動。

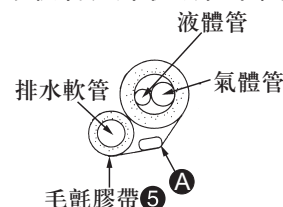


### ⚠注意

- 操作遙控器10秒鐘之後，運轉設置就會被保存。
- 當啓動了自動開機/關機定時器時，如果關閉了主電源或是發生斷電，定時器設置就會被取消。由於這些型號都具備自動重新啓動功能，一旦恢復供電，3分鐘後空調機就會開始運轉。
- 如果在斷電前用遙控器關閉了空調機，由於遙控器上的電源鍵關閉，自動重新啓動功能就會不起作用。
- 爲了防止起動電流對電源的衝擊，請有序安排其他家用電器開機時間，避免同時開機。

## 2-6 配管作業

- 一定要將排水軟管配置在製冷劑管道的下方。
- 不要使排水管隆起或盤曲。
- 不要拉着排水軟管進行包紮。
- 排水軟管須通過室內時，一定請用市售的隔熱材料纏繞包紮。
- 先用管道包紮帶⑤包紮，然後用毛氈膠帶⑥包裹配管，排水軟管，并收納在本機後面的配管收納部裏面。





## 向後、向右和向下鋪設管道

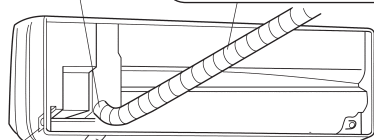
### 管道鋪設

#### ● 管道配置

將製冷劑管道和排水軟管匯總在一起，使用包扎帶進行纏繞。

注意，切勿使排水軟管抬高。

由管道末端開始，使用管道包扎帶⑤牢靠地纏繞。



往右側配管時切掉此部分。

往下側配管時切掉此部分。

- 把管道和排水管插入牆壁孔套管③，并把室內機組的上半部分挂在安裝板①上。
- 左右移動空調機，檢查空調機是否可靠地挂在安裝板①上。
- 把室內機組的下半部分推進安裝板①上。

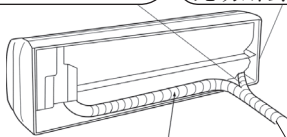
## 向左或者左後鋪設管道

#### ● 管道配置

將製冷劑管道和排水軟管匯總在一起，先用管道包扎帶進行纏繞，再用毛氈包扎帶⑤進行纏繞。

注意，切勿使排水軟管抬高。

往左側方向配管時，在此切斷去掉。



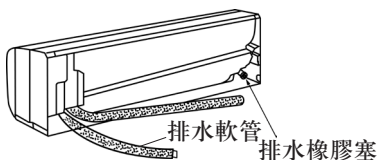
毛氈包扎帶⑤  
(管道包扎帶⑤)

應從管道末端開始纏繞毛氈包扎帶⑤(毛氈包扎帶⑤重疊部分應為毛氈包扎帶寬度的1/3)

在毛氈包扎帶⑤終端上，使用膠帶固定。

## 排水軟管的改裝法

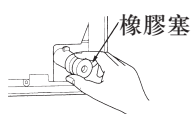
- 左、左背後配管時，一定也要把排水管改裝過，如果不加改裝，可能產生滴露水。



排水軟管

排水橡膠塞

1. 室內機組背面右側的橡膠塞  
抓住尖端凸緣部分把橡膠塞拔下來。



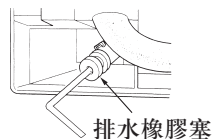
橡膠塞

2. 卸下室內機組背面左側的排水軟管  
抓住箭頭所指捏手部分按→方向拔出排水軟管。



排水軟管

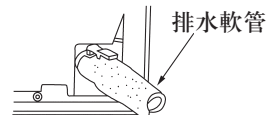
3. 將橡膠塞塞入室內機組背面裝插排水管的部位  
用內六角扳手把橡膠塞壓入排水盤接口處。



排水橡膠塞

4. 將排水軟管接插到室內機組背面右側的排水軟管接插部位

請將排水軟管插到排水盤接口處。一定要確認軟管是否確實卡住排水盤的突起卡爪。



排水軟管

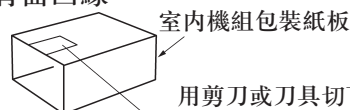
## 製冷劑管與延長配管的連接

如果在牆中已埋設有延長配管或配綫時，即請按照下圖所示要領進行配管連接工作。

①將室內機組上部鉤住安裝板①，并考慮到配管的收納而盡可能向左邊靠緊之後，切下一塊包裝材料(當襯墊用)使卡住背面凸緣，如右圖所示抬高室內機組。

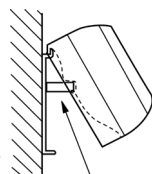
• 把製冷劑管與延長管②連接起來。

切下包裝材料的一部分(襯墊用)  
卡住背面凸緣



用剪刀或刀具切下紙板。

如圖所示卷起切下部分。  
使用膠帶固定末端。



如右圖所示，一邊注意方向一邊將襯墊確實地套進背面凸緣的凹陷部分。

襯墊

## 室內機組的安裝

- 將管道穿過牆壁，將機組吊裝在安裝板①上，推入室內機組直到它發出咔嗒一聲。

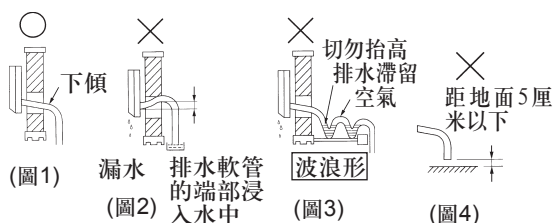


將卡鉤壓入在安裝板①孔中

## 2-7 排水管道鋪設

為了使排水順暢，應使排水管道形成往下傾斜狀態配管。(圖1)

切勿使排水管道連接形成如圖2～圖3上所示。



(圖1)

(圖2)

(圖3)

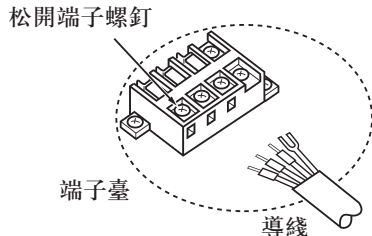
(圖4)

假如裝在室內機組上的排水軟管，使用時長度還不够，可採用附件中的排水軟管⑥連接使用。  
排水軟管需通過室內時，一定要使用市場上銷售的隔熱材料纏繞包扎。

### 3. 室外機組的安裝

#### 室內／室外連接

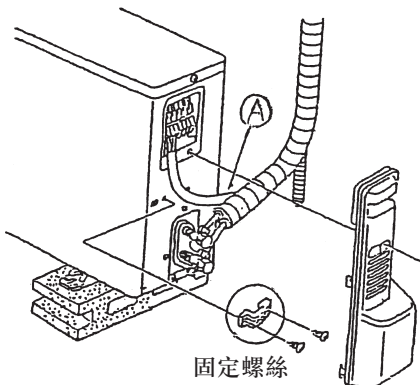
- 將來自室內機組的電線，正確地連接在接線端子臺上。
- 注意禁止使連接導線接觸配管。



#### ⚠注意

- 注意不能連錯線。如果接線不正確，空調機就不會正常運轉。
- 旋緊端子螺釘以防松脫。
- 旋緊螺釘後，輕輕拉動電線確認是否能拉動。

一定請用此導線夾將室內外連接電線A固定好。



#### ⚠警告

確實固定好室外機組的維修板。維修板如果沒固定好，將因為灰塵、水份等進入而引起火災、觸電事故。

#### ⚠注意

- 空調器的安裝面應堅固結實，具有足夠的承載能力，其承載能力不低於實際所承載的重量(至少200kg/m<sup>2</sup>)。
- 安裝面為木質、金屬或非金屬等結構，如果其強度明顯不足時，應採用相應的加固、支撐和減震等措施。
- 安裝架必須使用能使空調器可靠地固定在安裝面上的緊固件。
- 安裝時使用的緊固體，應根據安裝面材質堅硬程度確定安裝孔直徑和深度，並選擇適用的膨脹螺栓規格，確保安裝空調器穩定、牢固、可靠。
- 安裝時避開雨天、風雪天、雷雨天進行安裝，必要時採取相應措施保證自身和他人不受傷害。

### 4. 完成室內／室外機組連接以及進行試行運轉

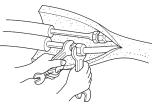
#### 4-1 管道連接

##### ① 室內機組接管

連接液，氣配管至室內機組。

- 首先對准中心，然後用手旋上管螺母至無法轉動。
- 參考下面扭矩表，使用兩只扳手擰緊室內機組側接管接頭部分。請注意勿過度扭緊，以免損壞擴口部分。

管徑		旋緊扭矩	
毫米	英寸	牛頓·米(N·m)	公斤力·厘米(kgf·cm)
6.35	1/4	13.7到17.7	140到180
9.52	3/8	34.3到41.2	350到420
12.7	1/2	49.0到56.4	500到575



#### ⚠警告

- 裝機時，在啟動壓縮機前，確保管子安全的連接。

##### ② 室外機組接管

與室內機組相同方法把配管接到室外機組的截止閥(2通和3通閥)管接頭。

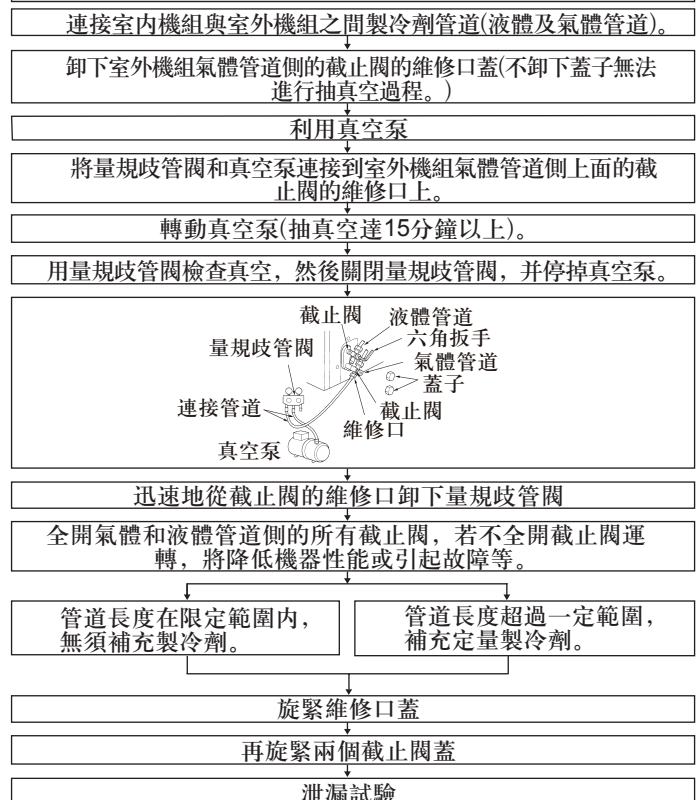
- 使用扭矩扳手或普通扳手，用和室內機組同樣的扭矩旋緊。

#### 隔熱及纏繞包扎帶

- ① 室外機組側的各配管及閥都須作隔熱處理。
- ② 從室外機組的配管入口起的全部配管都須用管道包扎帶B纏繞包裹。
  - 用膠帶固定管道包扎帶B的末端。
  - 如果配管通過天花板，盥洗間或其他高溫高濕的地方時，請加包裹以市售隔熱絕緣材料，以防凝露。

#### 4-2 抽真空·泄漏試驗

##### 抽真空過程



	緊固力矩	
	牛頓·米	公斤力·厘米
維修蓋	13.7到17.7	140到180
截止閥蓋	19.6到29.4	200到300

### 4-3 試運行運轉

#### MSZ型 變頻型

- 在進行運行之前，應再次檢查是否有錯誤的接線。錯誤的接線會妨礙正常的操作，或熔斷保險絲而不能起作用。
- 可用應急開關開始試運轉。按下應急開關，機器即根據所選模式開始連續製冷運轉30分鐘。在此30分鐘內，恆溫器不起作用。30分鐘後，機器將開始以24℃的固定設定溫度進行製冷模式應急運轉。
- 按下列程序進行試運行。

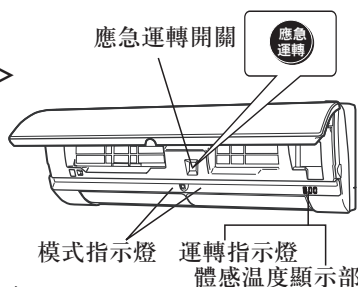
#### 程序

- 按應急運轉開關。  
每按一次，按如下順序切換。  
應急製冷 → 應急製熱 → 停止

※不能進行除此以外的運轉模式  
開始的30分鐘內不能調節溫度會連續運轉，  
風速是 (強)。

#### <體感溫度顯示部的顯示>

應急製冷 應急製熱



#### 注意：

- 這是應急運轉模式的指示。

#### 確認接收到遙控器的信號

按了遙控器的運轉/停止按鈕後，請確認室內機組的本機上是否發出唧!聲。然後再按一次按鈕以關掉機器。

用遙控器控制時，遙控器指令運轉後，應急運轉都將被解除。

- 爲了保護壓縮機，空調器停止後3分鐘內即使重新開機，室外機也不會被啓動。

### 4-4 應對用戶說明的事項

- 請按照使用說明書，向客戶介紹有關溫度調節控制的方法，空氣過濾網的拆卸、左右導風板組件的拆卸方法、清掃方法、及在操作使用時的注意事項等。

## 5. 安裝後的遷移安裝和維修

### 5-1 如何安裝前框

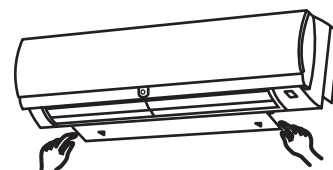
- ① 在安裝前框以前，請將上下導風板設定於3號(第10頁)位置。
- ② 在上下導風板下方插入前框底邊。
- ③ 固定好前框頂部。
- ④ 按下前框上搭扣，將前框固定於空調器上。

### 5-2 卸下室內機組

從安裝板上拉出室內機組的底部。

#### 松脫兩角

按下圖所示，把室內機組的左右下角往下和往前拉，松開鎖鉤。

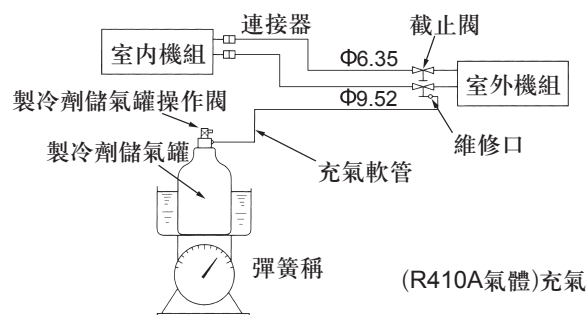


### 5-3 補充製冷劑

- ① 將儲氣瓶接在截止閥(3路)的維修口。
- ② 用來自儲氣瓶的製冷劑進行管道(或軟管)的氣洗。
- ③ 在空調機以製冷狀態運行時，補充指定量的製冷劑。

#### ⚠ 注意事項

- 補充時，請勿倒轉儲氣瓶灌製冷劑，否則，可能發生問題。



- 爲使儲氣瓶保持高壓，在寒冷季節時，請用溫水(40℃)加熱。但禁止使用火烤或用熱蒸氣蒸熱。

- 注：①室內接線圖貼在室內機組前框內側。  
②室外接線圖貼在室外機組電控盒上。

### 5-4 如何回收製冷劑

- ① 務必使用壓力表。
- ② 首先進行製冷運轉。
- ③ 再完全關閉高壓側的閥門(液閥)，壓力表讀數必須在0~0.05MPa時(約30~40秒後)，完全關閉低壓側閥門(氣閥)，立即停止運轉。
- ④ 在確保關閉液閥/氣閥閥門後並切斷電源，才能拆卸連接管道。

#### ⚠ 警告

- 在回收製冷劑時，拆下連接管前先關閉壓縮機。如果空氣等混入，會造成壓縮機爆裂。





# Split-type Air Conditioner Inverter Heat Pump

## Operating And Installing Instructions

R410A

### Product names

MSZ-AH09VA-H1

MSZ-AH12VA-H1

MSZ-PAH09VA-H1

MSZ-PAH12VA-H1

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Please don't connect the power supply of air conditioners to other generating and supply electric equipment.

If connected,air conditioners may be damaged.

**Warning** Incorrect handling could cause serious hazard,such as death, serious injury,property loss,etc.,with a high probability.

**Caution** Incorrect handling could make the conditioners not working normally or causing damage.

After installation,installers should take care to attach a barcode according to settlement bill and warranty card.



Thank you very much for purchasing this Mitsubishi Electric's room air conditioner.

- To use this unit correctly and safely,be sure to read this instruction manual before use.Keep this manual carefully for later reference.
- Be sure to receive a guarantee card from your dealer and check that the purchased data and shop name,etc.are entered correctly.
- This air conditioner should not be installed by the customer(Safety and performance functions cannot be assured due to customer's installation.Our company is not responsible for the resulting safety problem.Conditioners installed by customer are not covered in the range of 3-R guarantee.)










# Safety Precautions

For the sake of your own and others safety and prevention of property loss, be sure to follow the [safety precautions].



 <b>Warning</b>	Incorrect installation may cause great loss such as severe injury and even death.
 <b>Caution</b>	Incorrect installation may cause injury or loss of houses, property and etc.

## For installation

### Warning



<p>Don't install the air conditioner by yourself.</p> <p>Incorrect installation may cause fire, electric shock, injury due to the falling unit or water leakage. Please contact your dealer or the after-sales center of our company.</p>  <p>Please contact dealer or the after-sales center</p>	<p>Be sure to use the power supply socket dedicated to the air conditioner.</p> <p>If dedicated power supply sockets are not used, heat and fire may occur.</p>  <p>Dedicated power supply sockets</p>
<p>Don't install the unit where flammable and corrosive gas could leak.</p> <p>If gas leaks and collects around the unit, it may cause explosion or damage the unit.</p>   <p>Installation not permitted</p>	<p>Earth the unit.</p> <p>The air conditioner socket shall have a dedicated earth wire which can't be connected to a gas pipe, water pipe, lightning rod or the earth of a telephone. If the earth wire is not available or the earthing is incorrect, it may cause electric shock. Before use, be sure to confirm whether there is an earth wire or whether it is connected as required.</p>  <p>Be earthed</p>
<p>Install an electricity leakage circuit breaker.</p> <p>Without such a circuit breaker, there may be danger of electric shock.</p>  <p>Install an electricity leakage circuit breaker</p>	<p>Don't use refrigerant other than R410A.</p> <p>Or it may cause serious accidents such as failure and crack.</p>  <p>Prohibited</p>

### Caution







<p>The drain must ensure smooth drainage.</p> <p>If the drain doesn't work well, water may drop from the indoor and outdoor unit. This may wet and damage the furniture.</p>   <p>Drain</p>
---

## For unit relocation • repair

### Warning

<p>Don't repair or remove the unit by yourself.</p> <p>If this is done incorrectly, it may cause fire, electric shock, or injury from the unit falling, water leakage, etc. Contact your dealer or the after-sales service center of our company.</p> <p>If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or similar professional personnel to avoid hazard.</p>  <p>Please contact your dealer</p>
<p>If the air conditioner can't cool down or warm the air up, one of the major causes is lack of refrigerant. In such a case, contact the dealer.</p> <p>If refrigerant needs adding or repair is needed, please confirm with the after-sales service persons.</p> <p>The refrigerant used in the air conditioner is safe. Normally, the refrigerant will not escape from the air conditioner. However, if it does, detrimental gas will be produced when the leaked refrigerant makes contact with the warm air blower, heating radiators, gas stove and alike.</p>  <p>Please confirm with the after-sales persons</p>











Meanings of symbols used in this manual:

 Forbidden to do.	 Be sure to follow the instructions.
 Be sure not to touch with wet hands.	 Must be grounded.
 Be sure not to use water.	 Be sure to disconnect the power supply plug

Shut down the air conditioner and contact your dealer or the after-sales center of our company, when abnormality or bad conditions occur

## For operation

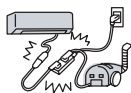
### Warning

<p>Don't expose your skin directly to cool air for a long time.</p> <p>This could damage your health.</p>   <p>Prohibited</p>
<p>Don't insert your finger or a stick, etc. into the air inlet, drain or outlet. The installation height for the indoor unit shall ensure the fan is more than 2.3m above the floor.</p> <p>The rotating fan at a high speed, which may cause personal injury, is used in this product. Take care of the children and don't allow them to play with the air conditioner.</p>   <p>Prohibited</p>
<p>Don't damage or process the power supply cord.</p> <p>Do not put heavy object on the power supply cord and do not damage or process the cord. The cord may be damaged and this may cause fire or electric shock.</p>   <p>Prohibited</p>
<p>Don't disconnect the power supply plug during operation.</p> <p>This may produce spark and cause fire.</p>   <p>Prohibited</p>
<p>When the power supply plug is inserted, you shall not only remove dust from the plug but also confirm whether there is dust, block or abnormality in the socket and ensure the plug is fully inserted in the socket.</p> <p>Or it may cause accidents such as fire or electric shock.</p>  <p>Remove the dust</p>  <p>Dust attention</p>

## Warning

Don't use intermediate connection of the power supply cord or the extension cord and do not use multi-way sockets.

Fire or electric shock may be resulted from poor contact, poor insulation and exceeding the permissible current.



Prohibited

When an abnormality (burning smell, etc.) occurs, stop the air conditioner and disconnect the power supply switches.

If the unit continues to be operated in an abnormal condition, it may cause fire, trouble, etc. In this case, Contact your dealer or the technical service center.

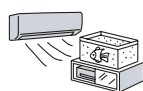


Pull out the power supply plug

## Caution

Don't use the air conditioner for other applications.

The air conditioner is not used to preserve precise apparatus, food, animals and plants and artwork due to probability of lowering their quality.



Prohibited

Don't operate a switch by a wet hand.

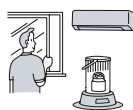
Risk of electric shock.



No wet hand

When using the air conditioner together with a combustion apparatus, you shall ventilate the room frequently.

Insufficient oxygen may result.



Ventilate

Don't put a combustion apparatus in a place directly facing the airflow outlet.

Incomplete combustion for combustion apparatus may result.



Prohibited

## Caution

Don't pull the power supply cord, when the plug is pulled out.

The core wire of the power supply cord may be broken and this may cause accidents such as fire or electric shock.



Prohibited

The core wire of the power supply cord may be broken and this may cause accidents such as fire or electric shock.

The unit may fall and this may cause injury.



Prohibited

Don't clean the air conditioner with water.

Water may enter the unit and degrade the insulation. This may cause electric shock.



No installation

Don't put a pet or houseplant where it will be exposed to direct airflow.

This could injure the pet or plant.



Prohibited

Don't put other electric appliance, furniture and etc. below the indoor and outdoor units.

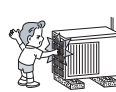
Water drops may cause pollution and failure of equipment.



No installation

Don't touch the air inlets and aluminum fins of the indoor and outdoor units.

This may cause personal injury.



Prohibited

Don't step or put anything on the outdoor unit.

This may cause an injury, etc. if you or something falls down.



Prohibited

Don't step onto an unstable bench when servicing the unit, etc.

You may fall down and get injured.



Prohibited

Don't use insecticide, disinfectant or flammable spray.

This may cause fire or deformation.



Prohibited

When lightning attacks, pull out the power supply plug.

Lightning strike may cause trouble to the unit.



Pull out the power supply plug

When the unit is to be cleaned, switch it off and pull out the power supply plug.

Since the fan rotates at high speed during operation, this may cause injury.



Pull out the power supply plug

When the unit is not going to be used for a long time, pull out the power supply plug.

Otherwise, dirt may collect and this may cause fire and accidents.



Pull out the power supply plug

Don't operate the unit for a long time in high humidity, e.g. leaving the door or window open.

In the cooling mode, if the unit is operated in a room with high humidity (80% or more) for a long time, water condensed in the air conditioner may drop and wet or damage furniture, etc.



No running

Don't charge or disassemble the batteries and do not throw them into fire.

Don't charge or disassemble the batteries and do not throw them into fire.



Prohibited

Don't charge or disassemble the batteries and do not throw them into fire.

Using an old battery together with a new one may result in heat generation, leakage or explosion.



Same type

If the air conditioner has been used for many years, please maintain or inspect the unit in time.

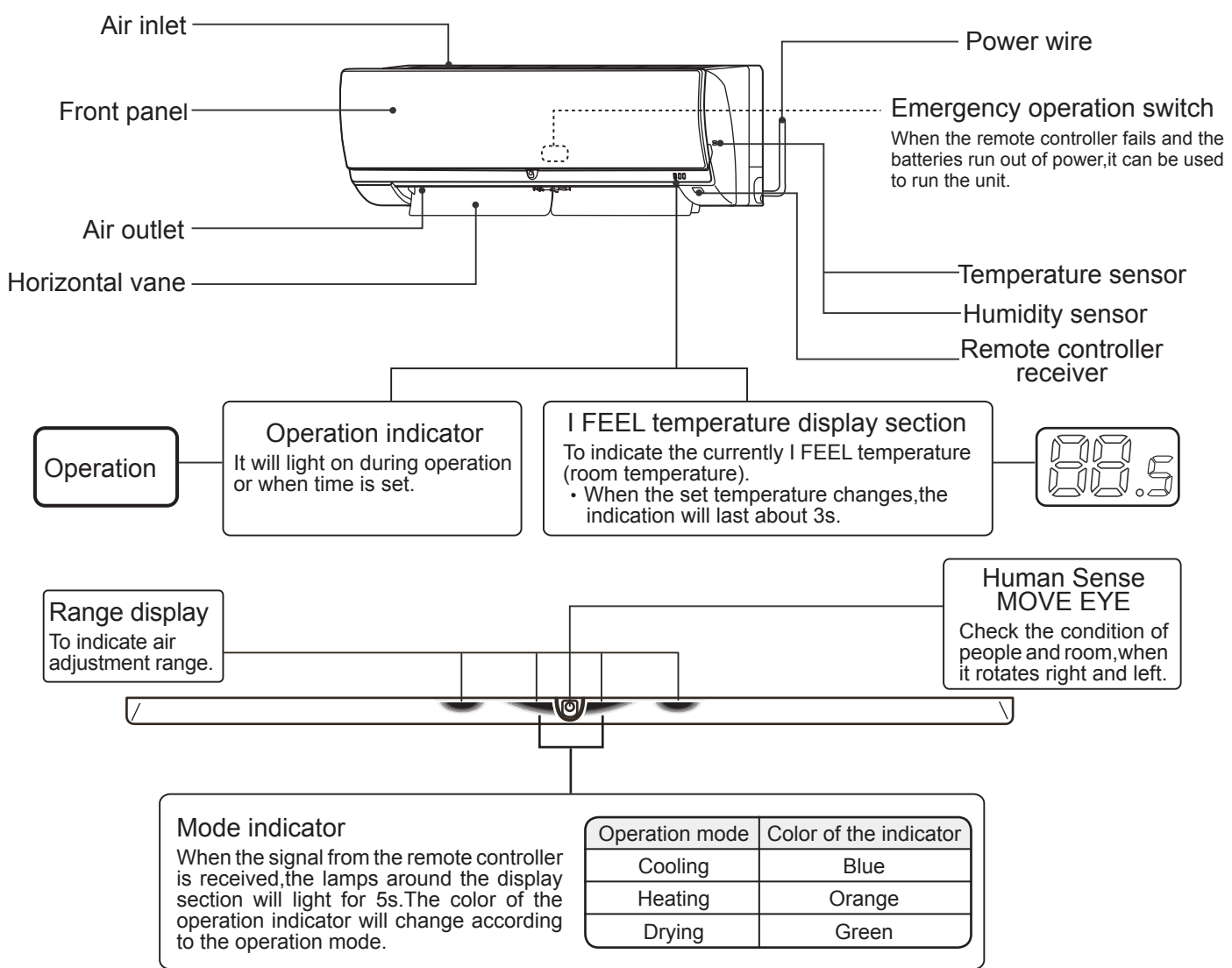
If dust or foreign material collects on the indoor unit, bad smell will be generated and the drain pipe will be blocked, which may cause leakage of water. Professional knowledge and skill are needed for the unit inspection, so in this case, contact your dealer or the after-sales service center of our company.



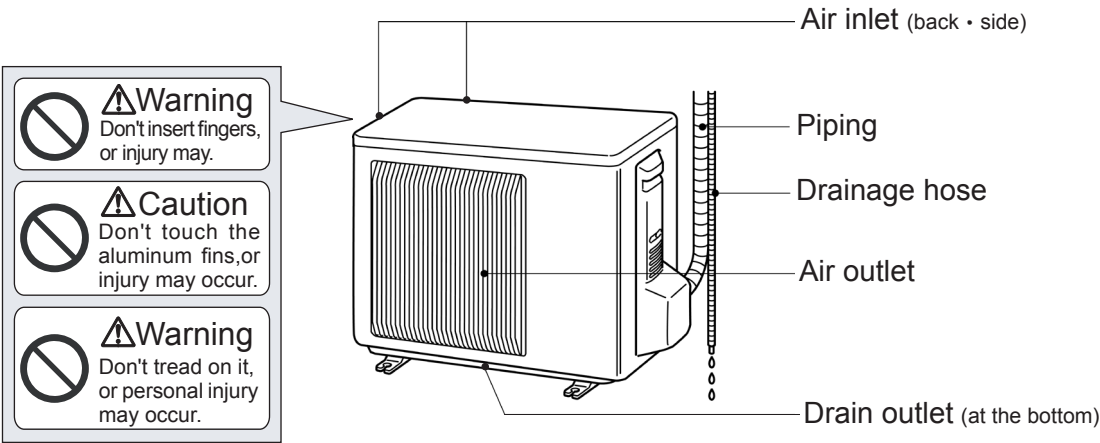
Inspection and maintenance

# Part Name

## Indoor unit



## Outdoor unit



# Remote Controller

<When the front lid is closed>

## Transmitter section

Send signal to the remote controller receiving part of the indoor unit.

## Operation display section

Display the setting status of the unit.

- Once the invalid button is pressed, display "invalid" for 3s.

## Cooling • Heating

Start cooling • heating. [Refer to page 8](#)

## Drying

Start drying. [Refer to page 9](#)

## Simple ON-Timer button/Simple OFF-Timer button

Preset the ON/OFF-Timer of the air conditioner simply.

[Refer to page 14](#)

## Operation button (ON/OFF)

Operate, Stop.

## Humidity

Adjust humidity setting. [Refer to pages 9](#)

## Temperature/adjustment

- Adjust temperature. [Refer to pages 8](#)
- Adjust time. [Refer to pages 6 and 15](#)
- Switch the menu. [Refer to pages 16](#)

## Indirect flow • Direct flow (under the I Feel mode)

Select the air supply way. [Refer to pages 8](#)

## I-warm

Run Heating to a set temperature of 10°C.

[Refer to pages 11](#)

## Quick heating

At the beginning of quick heating, heating runs at a powerful capacity to reach the effect of quick heating. (About 1 hour later, it will release automatically)

[Refer to pages 12](#)

<When the front lid is opened>

## Menu

Switch menus. [Refer to pages 16 and 17](#)

## Determine

Decide the setting items.

## Cancel

Release the setting items.

## ON-Timer • OFF-Timer

Preset the ON/OFF-Timer of air conditioner base on a time scale of 10 minutes. [Refer to pages 15](#)

## Cool feeling

Swing the vane upward and downward automatically. [Refer to pages 12](#)

## Time setting

Set time. [Refer to pages 6](#)

## Reset

Reset after the batteries are replaced.

## Fan speed • horizontal vane • vertical vane (Left side, right side)

Adjust air speed and direction. [Refer to pages 10](#)

## Circulation

Run to release temperature difference in the room.

[Refer to pages 8](#)

## Powerful

Cooling or heating with powerful.

[Refer to pages 13](#)

## Display (ON/OFF)

Change the display of the indoor unit.

[Refer to pages 18](#)

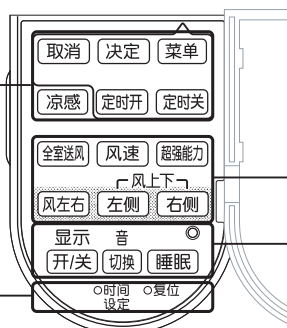
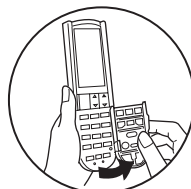
## Sound (switch)

Change the buzz of the air conditioner.

[Refer to pages 18](#)

## Sleep

Enter/exit the sleep mode. [Refer to pages 13](#)





# Preparation Before Operation

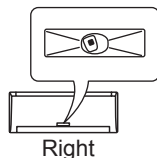
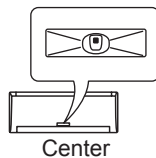
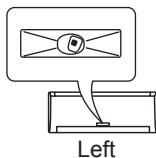
Please contact your dealer to install the air conditioner.

## Select mounting location(please do it before installing the batteries)

According to the actual mounting location of the indoor unit, set the location to mount the remote controller accordingly.

	Left	Center	Right
<b>Calculate the mounting location</b> Please confirm the mounting location of the indoor unit in the room.	Installed at the left side (The distance is not more than 50cm)	Installed in the center (within a distance of 50cm as required)	Installed at the right side (within a distance of 50cm as required)
<b>Remote controller setting</b> Remove the back lid of the controller and set it based on the mounting location of the indoor unit.			
<b>Display on the remote controller</b> Changes are displayed in the form of menus.			

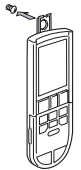
- If the mounting location is selected incorrectly, it will cause poor cooling or heating effect.
- When the air conditioner is mounted at the left or right side and stops running, the Human Sense MOVE EYE will turn to the center of the room.



## How to use the remote controller

Send signal to the signal receiving section of the remote controller of the indoor unit.

- The range that the signal can reach is about 7m when the remote controller is pointed at the front of the indoor unit.
- Be sure not to place any articles which will block the signal transfer between the remote controller and the indoor unit.
- Be sure not to place the remote controller at places directly exposed to sunlight or near stoves.
- No signal, no display and dim display (refer to page 27).
- When the remote controller needs hanging on the wall, pull out the installation hook from the back of the remote controller and hang it on the wall.

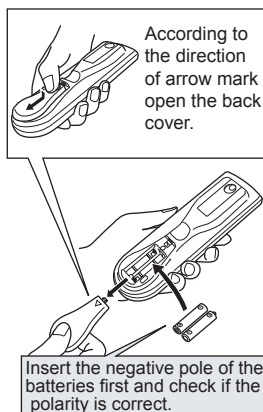


## <Reference for replacing batteries>

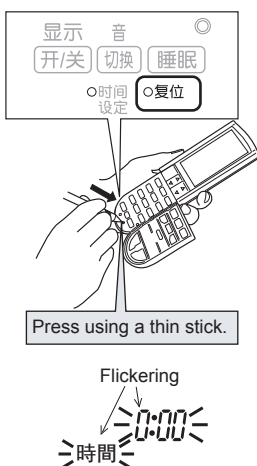
- If the batteries of the remote controller almost run out, the indoor unit will not respond to the remote control signal and the display will become dim. At this time, please replace them with 2 new no.7 alkaline batteries (LR03) (whose life span is about 1 year).
- Be sure not to use batteries of different types or mix the new one with the old one.
- Be sure not to use rechargeable batteries or manganese batteries. This may cause malfunction.
- Be sure not to place them at the place where kids can reach, to avoid the risk of eating by mistake.

## How to set time

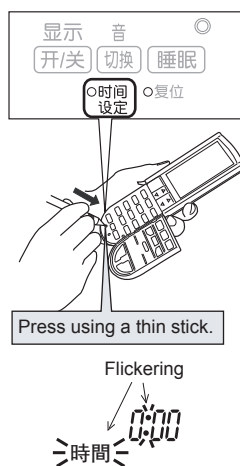
- 1 Remove the back lid of the remote controller and insert the batteries.



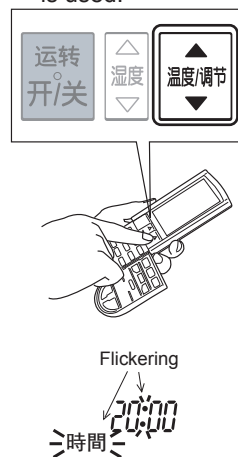
- 2 Open the front lid and press the 复位 button.



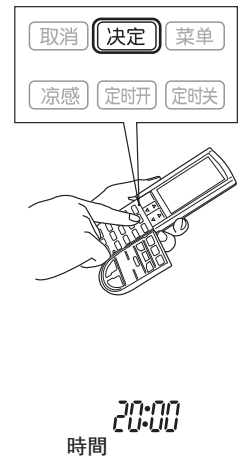
- 3 Press the 时间设定 button.



- 4 Press the 温度调节 button to adjust the time. The 24-hour system is used.



- 5 Press the 决定 button.

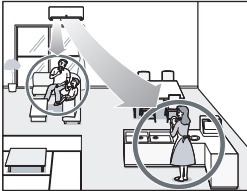
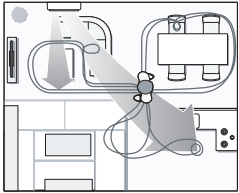


- After the time is set, the button 决定 must be pressed. When the flickering of the time setting content changes to be light on, the setting is finished.
- If the time fails to be set within 30s, the time setting function will be released.
- Press the 复位 button and each function setting will restore to the ex-work setting.



# Human Sense MOVE EYE Control Operation

Human Sense MOVE EYE can detect the temperature of floor and wall and location and activity of persons and control the actually I FEEL temperature by persons,controlling air temperature by taking people as the center.

The function I FEEL is set to 「On」		
	Direct flow • Indirect flow mode	Circulation mode
Measure the floor temperature Human Sense MOVE EYE can avoid overheating or subcooling through measuring the floor temperature and room temperature at the same time.Each time of running,the Human Sense MOVE EYE will detect the changes of the room temperature and activity of people and correctly memorize the shape of the room.	Detection of the activity area of people Only adjust the air at places where there are people and control the room temperature based on the activity of the people. 	Control of the memory about people's living area Memorize the area where people always stay as the living area.Set the I FEEL function to "on" and begin to keep a memory of the living area.Select to run the air conditioner with Circulation to realize the operation with a uniform temperature in the living area. 

## The detection range of Human Sense MOVE EYE

The Human Sense MOVE EYE can detect temperature in a scope covered in a wide angle of 150°,except the following range.

- The wall where the air conditioner is mounted
- The place right below the air conditioner
- Places where there is block (furniture,etc.) between the air conditioner

In the following cases,Human Sense MOVE EYE can't correctly detect people,windows and doors.

- In the mid summer when the air conditioner just starts,the temperature of the floor and wall is high
- When you are covered in quilts or wear heavy clothes without skin exposed
- When there are objects whose temperature changes greatly in short time

## Display of the area display section

When the air conditioner runs with Indirect flow • Direct flow • Circulation,display the areas where the air conditioner is controlling the air.

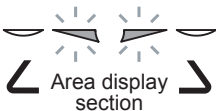
When the air conditioner runs with Direct flow and Indirect flow,display the area where there are people currently.

When the air conditioner runs with Circulation:display the memorized living area.

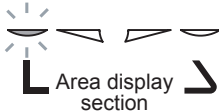
- Set Indirect flow • Direct flow function. From the start of operation till when the place where there are people is detected,the indicator is on all the time.
- In the following case,the area display section will be of no display.
  - When the 「I FEEL」 function is set to 「Off」
  - When the airflow direction is set to what you want
  - In the situation of 「Circulation」 ,press the button 全室送风 one more time
- Based on the different indoor unit mounting locations set by the remote controller,when there are people right in front of the indoor unit,the places which light on the indicator are also different.

<When there are people right in front of the indoor unit,the light status of the indicator>

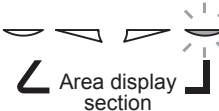
Mounted in the center



Mounted in the left



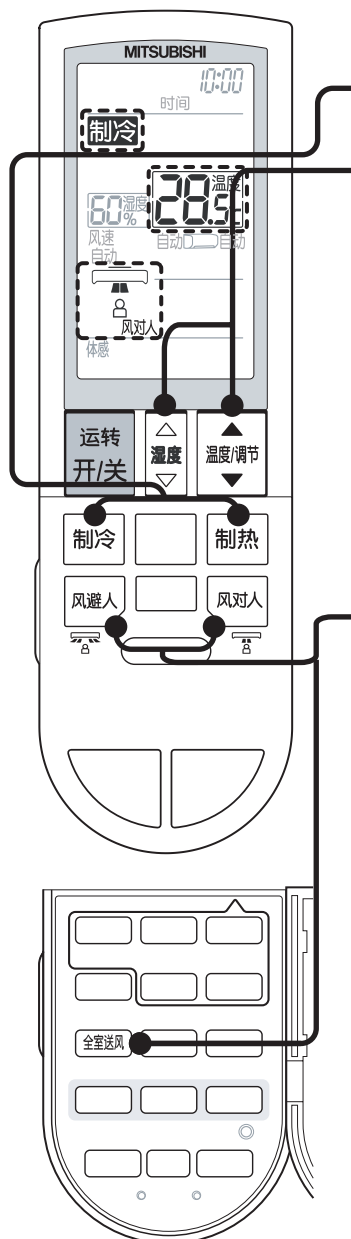
Mounted at the right



- When the air conditioner is of the initial settings in the factory,the 「I FEEL」 function is set to 「On」 .

# Cooling-Heating Operation(Control The I FEEL Temperature)

The I FEEL temperature control is activated through Human Sense MOVE EYE which not only can detect the room temperature, but also the floor temperature, location and activity of people, carrying out control accurately.



<Open the lid>

## Press either button between 制冷 and 制热

The air conditioner starts running.

## Press the 温度/湿度 (Temperature/Humidity) buttons to adjust temperature and humidity

➤ Each time the 温度/湿度 (Temperature/Humidity) button is pressed, the temperature will change by 0.5°C. (Setting range: 16~31°C)

➤ Each time the 湿度 (Humidity) button is pressed, the humidity will change by 10%. (Setting range: 40~70%)

➤ In Heating operation, the Humidity setting is invalid.

<The temperature settings recommended for energy saving>

Cooling	The temperature is set to above 28°C (humidity is set to 60%)
Heating	The temperature is set to below 20°C.

## During operation, press any button among 风对人, 风避人, 全室送风 to select airflow direction

风对人 Direct flow: cool and heat quickly centered in the area where there are people.

风避人 Indirect flow: make the feeling of wind become weaker and meanwhile adjust the air to prevent the skin from being dry.

全室送风 Circulation: take the area where there are most people in the room as the memory of living area. Adjust the air to remove temperature difference in the living area.

➤ When the air conditioner is of the ex-work settings, the airflow direction is set to 「Circulation」.

➤ The horizontal air direction and the vertical air direction are auto.

## When the unit shuts down

### During operation, press the 运转开/关 (Operation On/Off) button

➤ If press the 运转开/关 (Operation On/Off) button to start operation, the unit will recall the last operation setting and run under the same condition before it shuts down last time.

For example: if the unit is set to Cooling operation last time, it will start with Cooling operation this time.



### I FEEL Cooling • Heating Operation

Set 「I FEEL」 to 「On」, and Human Sense MOVE EYE starts working and controls not only the room temperature, but also the floor temperature, the location and activity of people so as to carry out control over the I FEEL temperature.

With the I FEEL Cooling function, humidity control is also considered.

• When the air conditioner is of the initial settings in the factory, the 「I FEEL」 function is set to 「On」.

### Simple Cooling • Heating operation

Set 「I FEEL」 to 「Off」, and Human Sense MOVE EYE will not work. The air conditioner carries out standard operation at room temperature. Moreover, the function of Indirect flow • Direct flow • Circulation becomes invalid. In Cooling operation, the humidity control is also invalid.

● If the temperature is set to 16°C or 31°C and the humidity to 40% or 70%, the unit will beep.

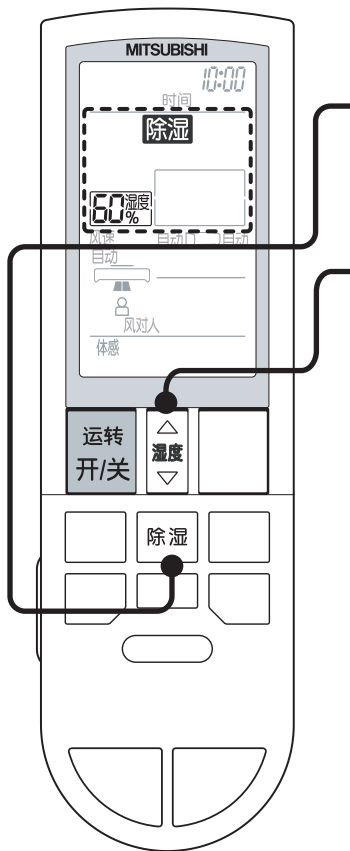
● At the beginning of Heating operation, during the preheating, the horizontal vane will turn horizontal. (for about 3 minutes)

● Even if the function 「Indirect flow」 is selected, if you feel the air is blowing toward you, you can adjust the airflow direction as you like.

● The function 「Direct flow」: In Cooling mode, the air blows to your head and in Heating mode, the air blows to your feet. There may be the phenomenon that the air doesn't blow directly to people.

# Drying Operation

Control humidity removal when the room temperature goes down.  
Please select it in the high humidity seasons such as the plum rain season.



## Press the 除湿 button

The air conditioner starts running.

## Press the 湿度 button, set the humidity

➤ Each time when the 除湿 button is pressed, the humidity changes by 10%.  
(setting range: 40% ~ 70%)

<Recommended humidity>

Humidity	60%
----------	-----

## When the unit shuts down

During operation, press the 运转开/关 button

### Details about Drying Operation

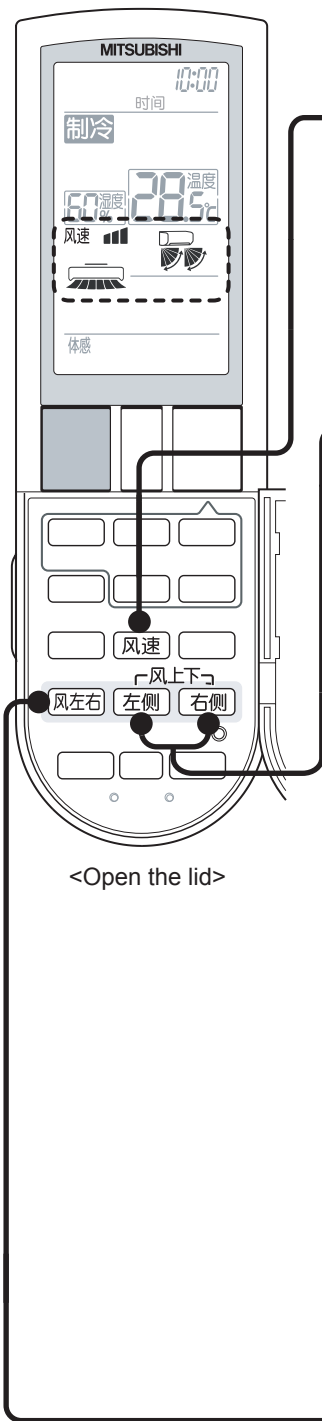
- The Drying mode of this air conditioner possess the way of Reheat Drying which is used to improve comfort, avoid discomfort due to the too low temperature in the room and maintain a fixed room temperature.
- When you want to maintain the room temperature without reducing the humidity of the room, please select the Drying mode to run the air conditioner. Reheat Drying mode can realize humidity removal with the ambient temperature not dropping thus to improve your comfort.  
For instance: in the plum rain season when the ambient temperature is 20°C and the relative humidity is 90%, if you want to reduce the humidity in the room while not to run the Cooling mode (in Cooling mode, the room temperature will drop and may make your family feel uncomfortable), then you can select the Drying mode of this air conditioner to set corresponding relative humidity (setting range: 40% ~ 70%). Our air conditioner will help you to keep the room temperature at about 21°C, remove humidity from your room and greatly improve your comfort.
- The ambient temperature range recommended to run the Reheat Drying mode of this air conditioner: 10°C ~ 32°C.



- The temperature can't be set. Temperature setting display on the remote controller will disappear.
- When the Drying mode operates, to detect the room temperature correctly, the air conditioner will start supplying air for about 3 minutes.
- When the humidity is set to 40% or 70%, the air conditioner will beep.
- In Drying mode: with the Reheat Drying way, dehumidify the room without decreasing the room temperature to a very low level. When the humidity in the room is very high and the temperature outside is rather low, the set humidity may not be obtained. The power consumption may vary with the humidity conditions.

# Airflow Velocity • Direction Adjustment

Set the airflow velocity and direction until you feel comfortable.



## How to adjust airflow velocity

### Press the 风速 button

Each time the button is pressed, the airflow velocity is changed in the following sequence.

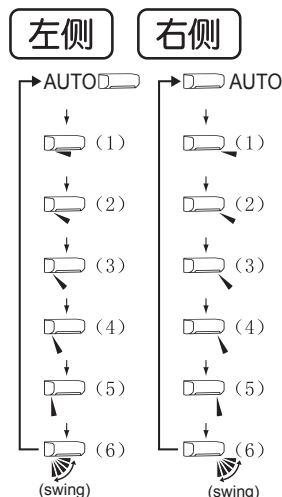


➤ Select 「Long distance」 mode to increase the airflow velocity. If you want the air to blow further, this function can be selected.

## Horizontal air direction adjustment

### Press the 左侧 右侧 buttons

Each time the button is pressed, the airflow direction is changed in the following sequence.



※To achieve comfortable airflow direction control, this air conditioner uses the two-segment upper and lower vanes horizontal vane, which are respectively controlled by independent stepping motors. Therefore, though the same air supply locations are set for the upper and lower vanes horizontal vane, there still will be small difference between the upper and lower vanes in actual operation.

AUTO	In Cooling • Drying mode, the air blows horizontally; in Heating mode, it blows downward.
(1) (2) (3) (4) (5)	Please make choice according to your feeling of comfort. ● The angle displayed on the remote controller is different from the actual angle of the horizontal vane. ● In the Cooling • Drying mode, the air can't blow downward for long so as to prevent water from dropping. ● The airflow direction may change automatically.
(6) (swing)	Every certain interval, the horizontal vane will swing automatically. When they swing to the upper and lower limits, they will stay there for a short time.

### <Range of the horizontal vane in swing mode>

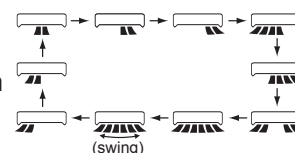
Airflow velocity setting	Cooling • Drying	Heating
Settings other than long distance air supply	(1) ~ (5)	(2) ~ (5)
When the long distance air supply is set	(1) ~ (3)	(2) ~ (3)

## Vertical air direction adjustment

### Press the 风左右 button

Each time the button is pressed, the airflow direction is changed in the sequence on the right chart.

➤ Between the Cooling (Drying) and Heating modes, the angle may be of slight difference.



- When the airflow velocity and the horizontal air direction are switched to 「Auto」 and the vertical air direction to (1), the unit will beep.
- When the horizontal air direction and the vertical air direction are adjusted, the function of Indirect flow • Direct flow • Circulation will be canceled.
- If long distance air supply is set for the airflow velocity, there will be the maximum velocity.

### Caution

- During operation, don't use your hand to turn the vanes for horizontal airflow as well as the vertical airflow, or trouble will occur.

# I-warm Mode

In Heating mode,when you wish to operate the unit with the temperature set to 10°C .



## In Heating mode,press the **制热10°C** button

The temperature is displayed to be 「10°C」 on the remote controller.

## To release

### Press the **制热10°C** button once again

- When the set temperature is increased or the mode is switched to Cooling • Drying mode,it can be released.

### Details about I-warm mode

- When you leave the room and shut down the air conditioner,the temperature in the room will go down due to the shutdown.But if you select the I-warm mode at this point,then when you go back to the room,you will not feel very cold and the heating effect in the room can also be enhanced.
- In cold seasons,if nobody stays at home because the family are out on vacation,certain temperature needs maintaining in the room to reduce the possibility of damaging the buildings due to too low temperature. Then you can select the I-warm mode and the electric power consumed by the air conditioner will be apparently less than that consumed in the Heating Mode.

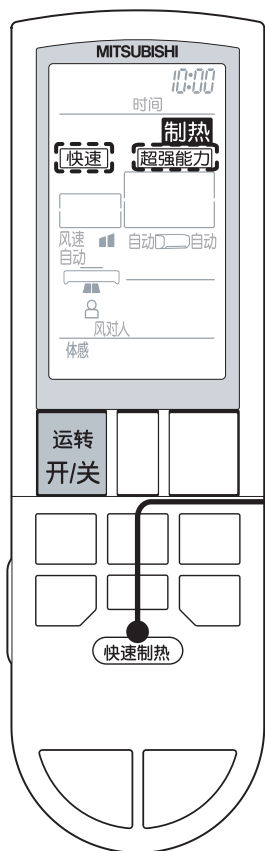


- In the modes other than Heating,the unit can't run in the I-warm mode.
- In the condition of not releasing it,the I-warm mode will not be kept after the unit is shutdown.So when the unit restarts,it will go back to its original Heating Mode.



# Quick Heating Mode

At the beginning of Heating operation, quick heating may be desired.



## During the Heating operation and in the I FEEL mode, press the **快速制热** button

Enter Quick Heating mode.

The airflow velocity is switched to 「Auto」 and the horizontal air direction is switched to 「Auto」, the vertical air direction to 「Direct flow」.

## To release

### Press the **快速制热** button once again

- It can also be released when the **超强能力**、**睡眠**、**风速**、**风避人**、**全室送风** **制热10℃** buttons are pressed, the operation mode is switched and the horizontal air direction and the vertical air direction are switched.
- Quick Heating mode will be released automatically 1 hour after the start.
- When the Quick Heating mode is released, the airflow velocity and direction will be resumed to the status before Quick Heating mode is set.

### Details about Quick Heating Mode

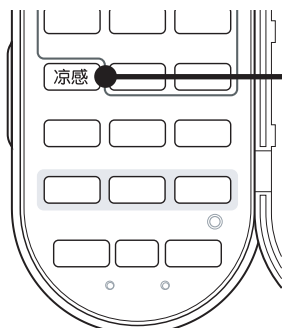
- Within about 15 minutes, the unit runs at a powerful capacity to improve the outlet air temperature and runs with the set temperature increased by about 3°C.
- To quickly increase the outlet air temperature, the upper part of the horizontal vane may blow air horizontally and the lower part may do that downward.
- The Quick Heating operation is effective in the I FEEL mode.



- The unit can't carry out Quick Heating operation in the mode other than heating mode.
- When the start of the unit is timed, the Quick Heating operation can't run.

# Cool Feeling Operation

It can be used when you want to enjoy healthy, comfortable and power saving Cooling operation.



<Open the lid>

## In the Cooling mode, press the **凉感** button

「Cool feeling」 will be displayed on the remote controller and 「swing」 be displayed for the horizontal air direction.

## To release

### Press the **凉感** button once again

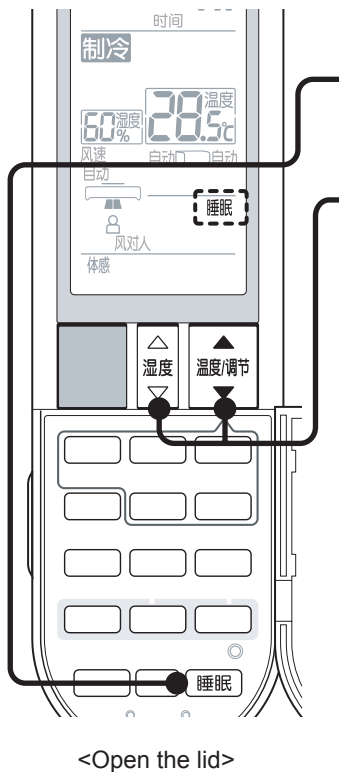
- It can also be released, when the **左侧**、**右侧** and **超强能力** buttons are pressed.



- In 「Indirect flow」 mode, cool feeling operation can't be set.
- At the upper and lower limits of the swing range, the vanes will stay for a while.

# Sleep Mode

Use it to avoid feeling too cold or too hot during sleeping.



## In Cooling • Drying • Heating operation, press the **睡眠** button

「Sleep」 is displayed on the remote controller.

## Set the temperature • humidity in Sleep operation

➤ Humidity can't be set in Heating mode.

➤ Temperature can't be set in Drying mode.

## To release

### Press the **睡眠** button once again

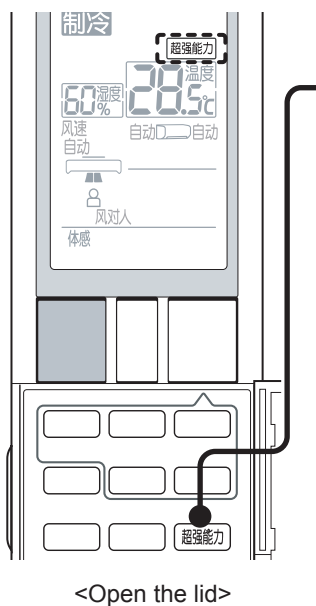
➤ It can also be released by pressing the **超强能力**、**风速** buttons or switching the operation modes.

### Details about Sleep mode

- In Cooling • Heating • Drying modes, for about 30 minutes' operation, set the temperature • humidity before the Sleep mode. About 30 minutes later, switch to the temperature • humidity set for the Sleep mode.
- Once the temperature and humidity are set for the Sleep mode, the last set temperature • humidity will be displayed when the **睡眠** button is pressed again.
- When the **睡眠** button is pressed, the display on the indoor unit will become dim, the fan speed will become 「auto」, and the unit will run in Silent mode.

# Powerful Mode

Please select it when you desire powerful cooling or heating effect.



## In cooling • heating mode, press the **超强能力** button

「Powerful」 is displayed on the remote controller and the fan speed becomes 「auto」.

## To release

### Press the **超强能力** button once again

➤ It can also be released by pressing the **睡眠**、**风速** and **凉感** buttons or switching the operation modes.

➤ After the unit runs for about 1 hour in the Powerful mode, it will be released automatically and the display of 「Powerful」 will also disappear.

➤ If the Powerful mode is released, the fan speed will change to the speed before the setting.

### Details about Powerful operation

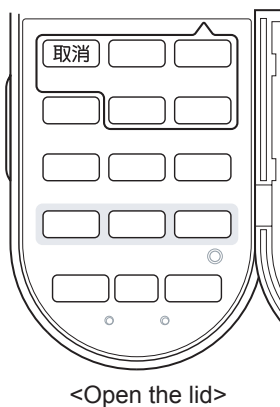
- In Heating mode, the unit will run the Powerful operation for about 15 minutes to increase the outlet air temperature, and the set temperature increased by about 3°C.
- In Cooling mode, the unit will run with the set temperature decreased by about 3°C.

- The Powerful operation will not run in the mode other than Cooling • Heating modes.
- In the ON-Timer mode, the Powerful operation can't be set.
- In the Cooling mode, if you switch on 「I FEEL」, you may not switch to the Powerful operation immediately even if you press the **超强能力** button. In this condition, 3 minutes later, it will switch to the Powerful operation to blow cool air.

# Simple Timer Operation

Switch the air conditioner On/Off after the set time.

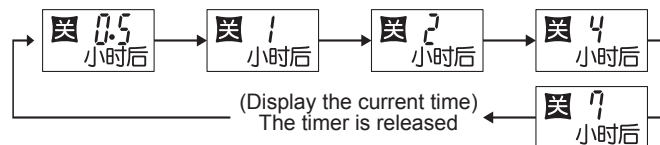
With only one button,you can set the simple timer.



## Simple OFF-Timer Operation

In the operation modes,press the  button

Each time the button is pressed,the switch will go in the following sequence.



Simple OFF-Timer can set timed Off 0.5,1,2,4 and 7 hours later.

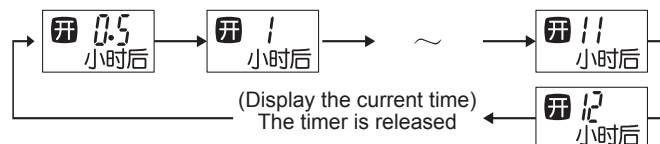
<Example for Simple OFF-Timer setting>



## Simple ON-Timer Operation

When the unit is running or shuts down,press the  button

Each time the button is pressed,the switch will go in the following sequence.



Simple ON-Timer can set timed On 0.5,1,2,3,4,5,6,7,8,9,10,11 and12 hours later.


If Simple ON-Timer is set in the operation time,it will stop running after the setting and when the setting is canceled,it will resume running.


<Example for Simple ON-Timer setting >



## To release

Press the  button

Press the  button the timed appointment will be released and all the operation will stop.

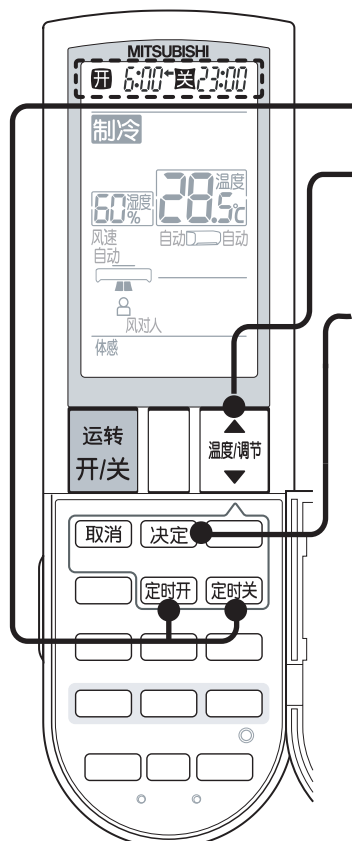
- The Simple ON-Timer and the Simple OFF-Timer can't be used in combination.If you want to set the ON-Timer and OFF-Timer simultaneously,please use Time to set the Timer.
- The Simple timer and time set timer can't be used in combination.
- When you set the Simple ON-Timer,"  " will be displayed in the I FEEL temperature display section on the indoor unit during the operation is stopping.
- When the time is appointed,the time display will disappear.

# Time Set Timer

It can set the ON/OFF-Timer of the air conditioner at the same time with a time scale of 10 minutes.

The set timer is only for once operation,so it shall be reset each time of use.

- Please set against the current time.If the current time is not set,you can't use Time Set ON/OFF-Timer.
- ON-Timer can also be set in the shutdown status.



<Open the lid>

**1 In operation,press the 定时开 or 定时关 button**

**2 Press the 温度/调节 button,adjust to the appointed time**

➤ Switch it on a 10-minute scale.Press the button and hold it to realize fast switching.

**3 Press the 决定 button**

The indoor unit will beep.

「开」 or 「关」 will light on,and the setting is finished.

➤ When ON-Timer and OFF-Timer are used at the same time,repeat the operation in the sequence 1→2→3.

➤ To change the set time,follow the sequence 1→2→3.

➤ If the ON-Timer is set in operation,the unit will stop running after the setting is finished.

<Example of setting the ON-Timer and OFF-Timer at the same time>

For instance:the current time:22 : 00,23 : 00 Off→the next morning 6 : 00 On

**1 Press the 定时关 button,press the 温度/调节 button to adjust to the desired time and then press the 决定 button**



**2 Press the 定时开 button,press the 温度/调节 button to adjust to the desired time and press the 决定 button**



➤ The timer that reaches the set time first will operate first.

➤ 指示 indicating the operation sequence of the timer.

**When the temperature and humidity are to be set,please first press the 决定 button and then set them.**

## To release

**Press the 取消 button**

➤ When you want to cancel one between the ON-Timer and OFF-Timer,please press the button for the timer you want to cancel.Then press the 取消 button.

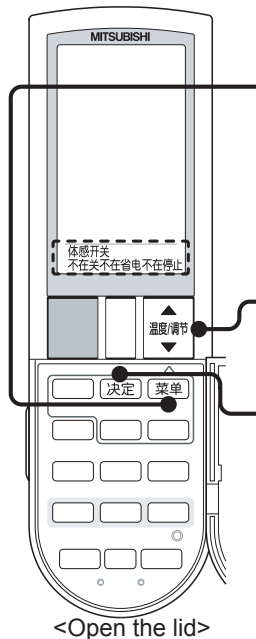
➤ Press the 运转开/关 button,the set timer will be canceled and all operation will be stopped.



- When the timer is set,please put the remote controller where the remote control signal can reach the indoor unit.When the set time is reached,even if the signal from the remote controller can't reach the indoor unit,the timing function will operate.However,the operating time may deviate from the set time.
- When the ON-Timer is set,"开" will be displayed on the I FEEL temperature display section of the indoor unit even the unit is stopping.The set content for the operation will be displayed inside the controller.
- In the case that the 「开」 or 「关」 is flickering,the set time will be released if no operation is carried out within about 30 seconds.

# Menu Switchover (I FEEL · Absence Detection (to save energy))

Through switching the menu, 「I FEEL」 「Absence detection (to save energy)」 could be set.



## ■ Press the 菜单 button and select the item to be changed

The content of the selected item will flicker. Each time the button is pressed, the switchover will happen in the following sequence.

I FEEL → OUT

## ■ Press 温度/调节 to change the setting

The content for the set item will flicker.

## ■ Press the 决定 button

The indoor unit will beep.

➤ If the 决定 button is not pressed, the changed content will be invalid.

➤ During the setting, press the 取消 button, 运转/开/关 button or not operate for about 30 seconds, the status before the setting will be resumed.

## About Absence Detection (to save energy) and Absence Detection (to turn off) operation

### [Absence detection (to save energy) operation]

■ If the Human Sense MOVE EYE detects nobody is in the room, the unit will be switched to the set temperature automatically 10 minutes after the detection and begin the 「Absence detection (to save energy)」 operation. If it detects there are people in, the unit will return to the operation mode used before the 「Absence detection (to save energy)」 operation.

- Cooling: raise the set temperature by about 1°C
- Drying: increase the set humidity by about 10%.

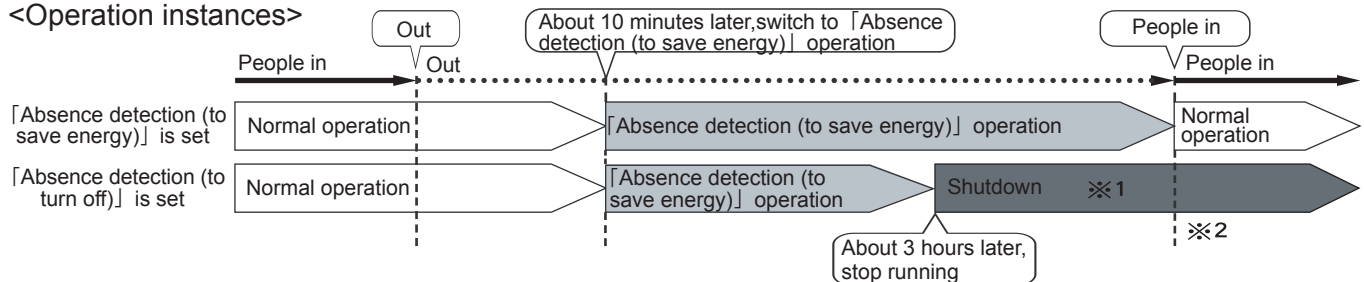
• Heating: decrease the set temperature by about 1°C

### [Absence detection (to turn off) operation]

■ If the Human Sense MOVE EYE detects nobody is in the room, the unit will stop running automatically 3 hours after it switches to 「Absence detection (to save energy)」 operation. When the unit stops running, even if people are detected, it will not restart.

At this point, please start it with the remote controller.

### <Operation instances>



※1 During operation, if nobody is detected at any time, even if 「Absence detection (to turn off)」 is set, the unit still will not stop running.

※2 On the occasion where the unit shut down according to the setting for Absence Detection (to turn off) operation, even if people are detected, the unit will not restart automatically. Please use the remote controller to start it.

● In the following occasions, nobody can be detected. Even if there are people, the unit may also turn to 「Absence detection (to save energy)」 operation and 「Absence detection (to turn off)」 operation. It is suggested to set to 「Absence detection (to cancel)」 (i.e 「Absence detection」 function changes to 「Off」).

- Occasion where there are babies and pets that provide small area of skin contact
- Occasion where the temperature of the wall and floor is almost the same with that of the human body in hot summer
- Occasion where people are covered with quilts, wear thick clothes and don't expose skin
- Occasion beyond the detection range of Human Sense MOVE EYE

● During 「Absence detection (to save energy)」 operation, the temperature and humidity display on the remote controller doesn't change.

● According to the setting for Absence detection (to turn off), even if the operation stops, the display on the remote controller will keep the same as during the operation.

● If you want to start the unit again, please press the 运转/开/关 button and then start the operation again.

● If you appoint Timed Off, then give priority to it.

● In Sleep mode and powerful operation, 「Absence detection (to turn off)」 and 「Absence detection (to save energy)」 operations are not available.



## ■ Items for function switchover

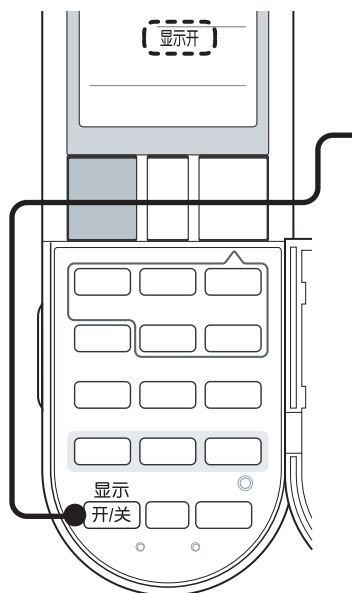
Items	Setting	Operation content explanation	Display on the remote controller	
			During setting	After setting
I FEEL (ex-work setting:On)	On	Human Sense MOVE EYE starts working.It is an operation mode which can not only detects the room temperature,but also consider the floor temperature,location and activity of people,being able to control the temperature which can be actually perceived by people(I FEEL temperature). ● I FEEL Cooling Operation also considers humidity control.	▶ I FEEL ON	I FEEL
	Off	Operation mode only in light of room temperature. Human Sense MOVE EYE doesn't work.	▶ I FEEL OFF	No display
Absence detection (to save energy) (ex-work setting:Off)	Off	Maintain the set operation on the remote controller.	▶ Absence detection (to cancel)	No display
	Absence detection (to save energy)	When there is nobody in the room,the unit will switch to Econo operation automatically. ● Please set 「I FEEL」 to 「ON」 .	▶ Absence detection (to save energy)	Absence detection (to save energy)
	Absence detection (to turn off)	When there is nobody in the room for long,the unit will stop running automatically. ● Please set 「I FEEL」 to 「ON」 .	▶ Absence detection (to turn off)	Absence detection (to turn off)



● After the batteries of the remote controller are replaced,press the 复位 button to restore the ex-work settings.

# Switch The Indicator Of The Indoor Unit

If it is set to 「Off」, the section indicator of the indoor unit will go out and that for operation and I FEEL temperature mode will become dim.



<Open the lid>

■ During operation or during shutdown, press the **显示 开/关** button

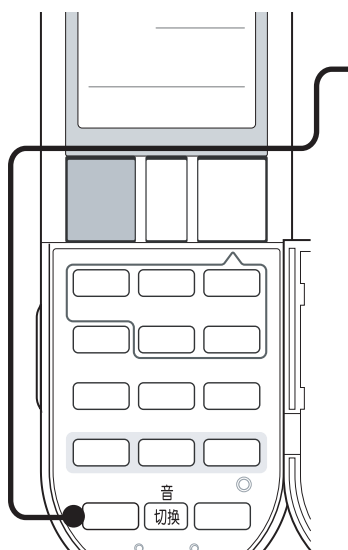
On the remote controller, 「Display Off」 will appear.

➤ When it is purchased, the display is set to 「Display On」.

- Even if it is set to off, the display will become light on for a short time in the following conditions.
- During operation, when the set temperature is changed : display the set temperature
  - During operation, settings other than temperature are changed : display the current I FEEL temperature (room temperature)

# Switch The Operation Sound

For the receiving sound of the indoor unit, the scale can be selected between available and not available.



<Open the lid>

■ During operation, press the **音 切换** button

There is no related display on the remote controller.

➤ When it is ex-work, the sound is set to 「Scale available」.

## When scale is available

After the signal from the remote controller is received and the following operation is being carried out, there will be different sounds of scale from the indoor unit.

- When the operation mode is changed during the period from shutdown status to the start of operation and during the operation, there will be 3 successive sounds to prompt the operation mode.
- Successive sound will be the prompt for set temperature and humidity change.

## When scale is not available

When the signal from the remote controller is received, there will be no change to the scale and the indoor unit gives single sound.

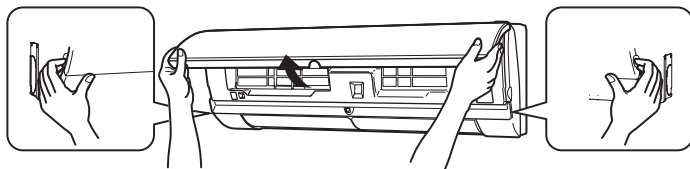
- The remote controller will be of no display of 「scale available」 and 「scale not available」.
- If the temperature is set to 16°C or 31°C and the humidity to 40% or 70%, the unit will beep.

# Part Maintenance

- Please follow the sequence 1 ~ 2 to handle the air strainer. If you find the strainer is dirty, please maintain (clean) it.
- When other parts are handled, please follow the methods for removing each of them.

**⚠** When the unit is to be handled, for the sake of safety, please disconnect the power supply plug or cut off the power supply.

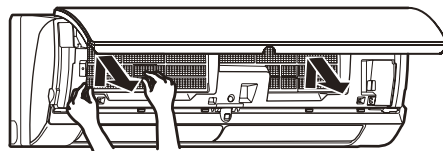
## ① Front panel



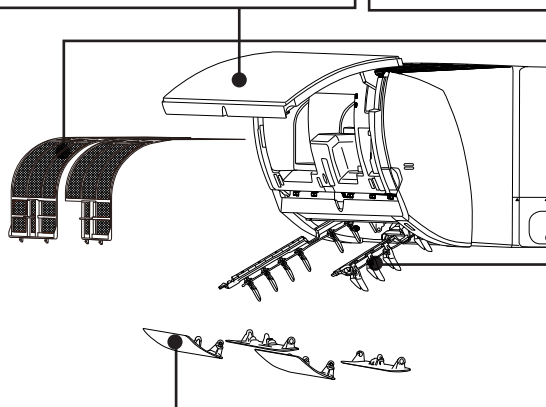
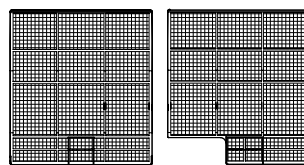
Open the panel by fastening it with hands and turn it to the support location

➤ Do not step onto an unstable bench when handling the unit. This may cause injury if you fall down.

## ② Air strainer (2 on each side)

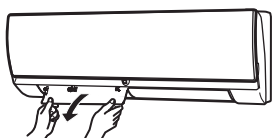


Hold the handle of the strainer, raise it slightly and then draw it outward.



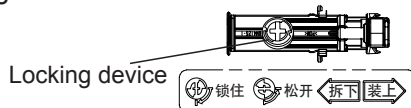
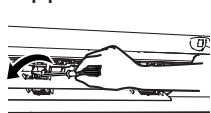
Horizontal vanes (4 pieces in total: upper left, lower left, upper right, lower right)

### 1 Open the vane downward

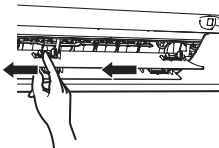


Please open the vane gently and slowly, or damage may be caused to related parts.

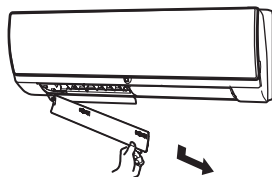
### 2 Use a screwdriver to loosen the locking device of the safety stopper on the vanes



### 3 Remove the safety stopper along the direction of the arrow



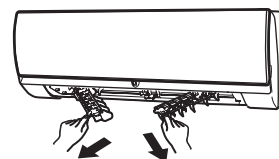
### 4 Draw out the vanes



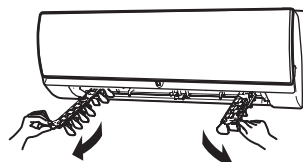
The 4 pieces of vanes mentioned above are respectively removed by following steps ① ~ ④. When they are removed, follow the sequence of upper first and then lower.

Vertical vanes

### 5 Draw it out in the direction of the arrow by pressing the handle



### 6



# Cleaning The Parts (Cleaning Methods)

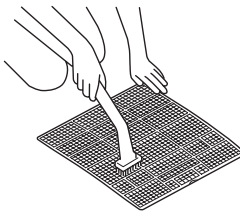
Caution: When the unit is used in places where there is lot of dust and smoke and places such as kitchens where there is oil dirt, please remove the strainer from the indoor unit if you feel it is too dirty.

## Air strainer

1. Use vacuum cleaner to remove the dust or wash it with water.
2. Wipe the water off with a soft cloth and dry it in the shade.

### Caution

- Don't use a brush or broom to rub the strainer.
- If the dirt is noticeable, wash the strainer with a solution of mild detergent diluted in lukewarm water. After it is rinsed, install it after drying in the shade.
- Do not expose the air strainer to direct sunlight or heat from a fire or use air blowers when drying it. This may cause deformation or discoloration.
- Don't use hot water above 50°C to clean it.



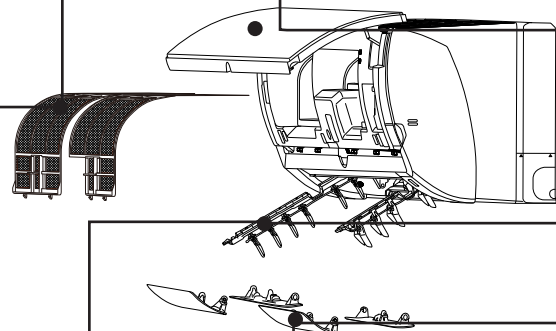
※ Press the strainer securely and don't make it deformed.

## Panel (If dirt is detected)

Please use soft cloth to clean it.

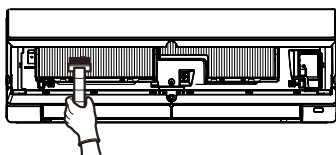
### Caution

- If the dirt is noticeable, wash it with a solution of mild detergent diluted in lukewarm water.
- Don't use gasoline, volatile oil, thinner, rubbing powder and etc.
- Don't use hard objects such as brush and sponge to clean it.
- Don't bath the panel directly.
- Do not expose it to direct sunlight or heat from a fire or use air blowers when drying it. This may cause deformation or discoloration.
- For PAH series, it is strongly prohibited to use the cleaning liquid clearly marked not to be used for metallic products to scrub the panel of the indoor unit.



## Heat exchange

(When dirt is detected)



First remove the air strainer.

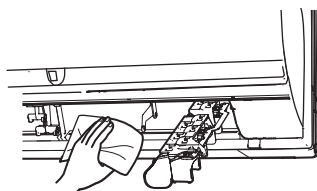
Remove the dust with a vacuum cleaner (With brush)

### Caution

- When the brush is used, don't brush it with force.
- Please put on gloves to do it.
- Don't use corrosive liquid to scrub it.

## Air outlet, horizontal vanes, vertical vanes and vanes (When dirt is detected)

Please clean them with soft cloth.



### Caution

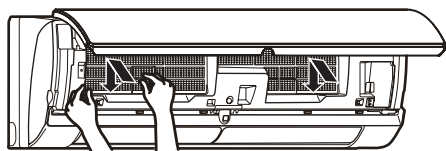
- Please confirm the fan stops.
- If the dirt is noticeable, wash it with a solution of mild detergent diluted in lukewarm water.
- Don't use gasoline, volatile oil, thinner, rubbing powder and etc.
- Do not expose it to direct sunlight or heat from a fire or use air blowers when drying it. This may cause deformation or discoloration.
- Please don't apply high external force on the internal vanes. This may cause break.

# Install The Parts

- After the air strainer is maintained, be sure to install it following the sequence 1 ~ 2.
- When other parts are handled, please follow the installation methods for each of them.

⚠ When maintenance is being done, for the sake of safety, please pull out the power supply plug or cut off the power supply.

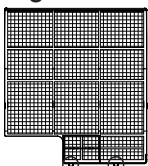
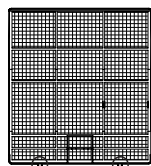
## ① Air strainer (2 on each side)



<Location of the air strainer>

Left side

Right side



The side of the air filter where there are letters faces outward and is inserted into the bottom along the strainer guide rail. The end is inserted in place.

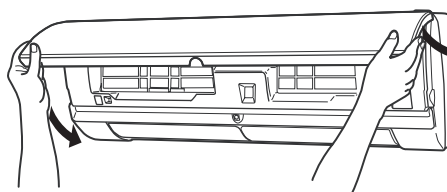
End

Surface

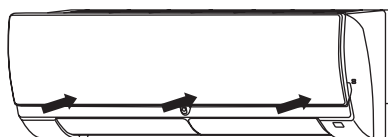
Surface

## ② Panel

1. Close

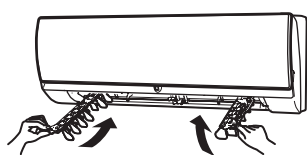


2. Hold 3 places



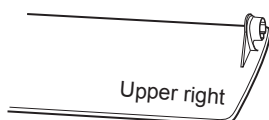
➤ If the panel is not installed, there will be abnormal sound during operation.

## Vertical vanes



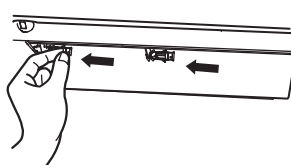
Insert along the upper side of the air vane

## Horizontal vanes (upper left, upper right, lower left, upper left, 4 pieces)



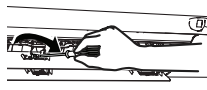
Upper right

Be installed in the specified location. Install them in the sequence of lower first and then the upper ones.




Move the safety stopper along the direction it is installed until the click sound is heard.

If the safety stopper is not installed properly, all the indicators will flicker and the unit can't be started.



Lock the locking device.







## Finally

1. Insert the power supply plug.
2. Press the  button on the remote controller, and the unit will start running.



# Before You Call For The Maintenance Personal, Please Check The Following Contents One More Time.

## If the following is displayed on the indoor unit

Malfunction	Display contents	
When the operation On button is pressed, the unit still can't run.	The I FEEL temperature display section is flickering, and all the other display sections are flickering. 	Maybe the safety stoppers of the horizontal vanes haven't been installed in place. Please install them step by step until the click sound is heard.
During Heating operation	Display on the I FEEL temperature display section 	The frost in the outdoor unit is being thawed.(defrosting) Defrosting operation may run once every 30 minutes to 1 hour. The Defrosting operation runs for 10 minutes at the most and reenter the Heating operation after defrosting.
During Cooling or Heating Operation	Display on the I FEEL temperature display section 	The display range of the I FEEL temperature is 8~37°C and display appears every 0.5°C. Below 7.5°C, <b>LO</b> is displayed and above 37.5°C, <b>HI</b> is displayed.
At the time of shutdown	Display on the I FEEL temperature display section 	Standby in ON-Timer mode.
Immediately after the operation begins	The display on the I FEEL temperature display section and the operation indicator becomes dim 	Is Sleep mode set or the [I FEEL display] of the remote controller is set to be [Off] ?
Out of operation	The numbers on the I FEEL temperature display section are flickering.  The operation indicator is also flickering.	This is a fault and the operation stops. Please contact your dealer or the after-sales service center of our company. When you call for maintenance, please inform the flickering numbers.

# Is It A Malfunction?

Please check the following points before you entrust to repair the unit.

Is it a malfunction?	Answer (No)
Out of operation	<ul style="list-style-type: none"> <li>● Is the power supply switch dedicated to the air conditioner is Off?</li> <li>● Does the power supply plug fall off?</li> <li>● Is the setting on the remote controller 「Off」 ?</li> </ul>
	<ul style="list-style-type: none"> <li>● This protects the air conditioner. 3 minutes later,it will run. Please wait.</li> </ul>
	<ul style="list-style-type: none"> <li>● To prevent too low temperature in the room,the outlet air becomes weaker.</li> </ul>
	<ul style="list-style-type: none"> <li>● Please wait as the air conditioner is preparing to blow out sufficient warm air.</li> </ul>
	<ul style="list-style-type: none"> <li>● Is 「I FEEL」 set to be 「Off」 ?</li> <li>● If the 「I FEEL」 is set to be 「Off」 ,the area temperature sensor will not operate.</li> </ul>
	<ul style="list-style-type: none"> <li>● Defrosting of the outdoor unit is being done,since this is completed in 10 minutes at the most,please wait.</li> </ul>
Remote Controller	<ul style="list-style-type: none"> <li>● Are the batteries exhausted?</li> <li>● Is the polarity (+),(-) of the batteries correct?</li> <li>● After the batteries are installed in the remote controller,is the <span>复位</span> button pressed?</li> </ul>
	<ul style="list-style-type: none"> <li>● Do you use the remote controller for TV or Video recorders by mistake?</li> </ul>
	<ul style="list-style-type: none"> <li>● When you press the remote controllers for TV or video recorders and hold for while,the air conditioner may not receive signal of the remote controller.</li> <li>● When the room temperature is too low,the air conditioner may not receive the signal of the remote controller.</li> </ul>
Feel too cold	<ul style="list-style-type: none"> <li>● In Cooling Operation,are the set temperature and airflow direction proper?</li> <li>● When the outside temperature is low,the room temperature may also drop.</li> </ul>

## Is it a malfunction?

## Answer (No)

### Not cold/not hot/humidity can't decrease

Not cold  
Not hot

- Is the set temperature and wind intensity proper?
- When the wind intensity is set to be 静 (Low), the cooling and heating speed may decrease.
- Please change the air velocity to 中 (Medium) and 大 (High).
- Is air strainer clean?
- Is the vane inside the air conditioner clean?
- Are there any obstacles blocking the air inlet or outlet of the indoor or outdoor unit?
- Is the window or door open?
- In answer to the size of the room and the outdoor temperature, it may take longer time to reach the set temperature or even the set temperature can't be reached.
- When a ventilation fan or a gas cooker is used in the room, the cooling load increases, resulting in an insufficient cooling effect.

During cooling operation  
The outlet air is not cold

- In I FEEL Cooling mode, since the temperature and humidity are controlled by auto switching the Cooling operation and Drying operation, Reheat Drying Operation will be switched to when the set temperature is approached, which makes the outlet air not very cool. If you don't want to switch to the Drying operation automatically, you can the [I FEEL] to [Off] in the menu.

When the set humidity can't be reached

- When the humidity in the room is too high or the outdoor temperature is too low, the set humidity may not be reached.

### Water leakage/discharge of mist

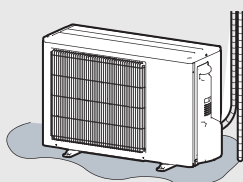
Mist is discharged from the air outlet of the indoor unit

- The cool air from the air conditioner rapidly cools moisture in the air inside the room, and it turns into mist.

Water leaks from the indoor unit

- Is the panel installed properly?
- Is the end of the outdoor drain pipe broken or pulled upward?
- After you confirm all the above and there is still problem, please contact your dealer or the after-sales service center of our company.




Water and vapor flow from the outdoor unit



- During Cooling operation, pipe or pipe connecting sections are cooled and this causes water to condense and drip.
- In the Heating operation, the defrosting operation on the outdoor unit will make water or vapor flow out. The vapor looks like white smoke.
- In the Heating operation, water condensed on the heat exchanger drips down. Water volume varies with temperature and humidity.
- This is not a malfunction, but if the water leakage brings trouble to you, please contact your dealer or the after-sales service center of our company to negotiate water drainage issue.
- In some cold areas, water drainage may not be carried out due to ice covered on the outdoor unit.

## Is it a malfunction?

## Answer (No)

Air	Air can't be blown right (left)	<ul style="list-style-type: none"> <li>● Is the installation location correct? Confirm whether the setting on the remote controller is correct.</li> </ul>
	In Cooling • Drying operation When the upward and downward air direction is changed,the adjustment will be invalid	<ul style="list-style-type: none"> <li>● When the horizontal vanes face downward as in status 4 ~ 5, for about 30 minutes to 1 hour,to prevent water dripping from the horizontal vanes,the air direction is switched to position 3 automatically.</li> </ul>
	Set 「Indirect flow」 ,but there is still air toward people Set 「Direct flow」 ,but there is no air toward people	<ul style="list-style-type: none"> <li>● It is possible that the Human Sense MOVE EYE is difficult to detect people. When you are not satisfied with the air direction,the horizontal • vertical air direction can be adjusted.</li> </ul>
	In Cooling operation,even though the set temperature is reached,the air still doesn't stop	<ul style="list-style-type: none"> <li>● In Cooling operation,even though the room temperature (I FEEL temperature) reaches the set one,air will not stop running out.The fan still runs at the set air velocity.</li> </ul>
	When heating begins or during operation The horizontal air direction changes halfway No adjustment can be made The outlet air stop	<ul style="list-style-type: none"> <li>● When the unit starts running and gets ready to send warm air,the horizontal vanes will become horizontal.(about 3 minutes)</li> <li>● The frost on the outdoor unit is being thawed(Defrosting operation). It is possible to run once between every 30 minutes to 1 hour. When the outdoor temperature is low and humidity is high,it is liable to frost. In Defrosting operation,to prevent cold air from coming out,the horizontal vanes become horizontal and stop supplying air. The defrosting operation will stop at most 10 minutes later. Thereafter,the Heating operation restarts.However,based on different outdoor temperature,it may take several minutes to blow out warm air.</li> <li>● When the indoor temperature (I FEEL temperature) is higher than the set one,to prevent overheat,the outdoor unit will stop running. At this point,to prevent cool air from coming out,the horizontal vanes become horizontal and supply slight air.</li> </ul>
Discoloration	The aluminum fins on the right of the indoor heat exchanger is discoloring and appear burned like	<ul style="list-style-type: none"> <li>● The discoloration may be caused during manufacturing the indoor heat exchanger (the heat in welding leads to the discoloration of the resin coat on the surface of the aluminum fins).It isn't caused by the operation of the air conditioner.Moreover,the performance of the heat exchanger may not be influenced.</li> </ul>

## Is it a malfunction?

## Answer (No)

Sound	Hissing and cracking sound is heard	<ul style="list-style-type: none"> <li>● This sound is generated by the expansion • contraction of the panel,etc. due to change in temperature.</li> <li>● This sound is generated by the operating of the refrigerant control valve.(in Cooling • Drying operation)</li> </ul>
	Water flowing and burbling sound is heard	<ul style="list-style-type: none"> <li>● This is the sound of refrigerant flowing inside the air conditioner or refrigerant flowing direction switching.</li> </ul>
	The sound of flopping is heard	<ul style="list-style-type: none"> <li>● This sound is heard when the outside air is absorbed from the drain hose in turning on the vacuum exhauster or the ventilation fan and that makes water flowing in the drain hose sucked up together with air.This sound is also heard when the outside wind is strong.Please set the outlet of the drain hose off the airflow.</li> </ul>
Bad smell	The air from the indoor unit smells strange	<ul style="list-style-type: none"> <li>● The air conditioner may suck in an odor adhering to the wall,carpet, furniture,cloth,etc. and blow it out with the air. Suggest cleaning the air conditioner.</li> </ul>
Display	The display on the indoor unit is blurring	<ul style="list-style-type: none"> <li>● In Sleep operation or when the off status is displayed,the display will automatically become dim.</li> </ul>
	The location displayed on the indoor unit location display section is different from the actual location of people.	<ul style="list-style-type: none"> <li>● It may take about 3 minutes to detect the location of people.</li> <li>● Since what is detected is the skin temperature,if little skin is exposed,it maybe impossible to detect it correctly.</li> <li>● On the occasion where the floor temperature is very high when the unit starts running in very hot summer,the location of people may not be detected correctly.</li> </ul>
	The temperature displayed on the display section of the I FEEL temperature doesn't correspond to temperature displayed on the thermometer inside the room and the setting on the remote controller.	<ul style="list-style-type: none"> <li>● On the occasion where the "I FEEL" is set to "ON",the I FEEL temperature will be displayed. Since the I FEEL temperature is different from the room temperature,the display on the thermometer may also be different.</li> <li>● When Powerful operation is set,the displayed temperature may be lower than the set one by 3°C in Cooling operation and higher by 3°C in Heating operation.</li> </ul>



# Instructions For Users

## About operation

- If the air conditioner runs at the outdoor ambient temperature other than that shown in the table on the right, the protection device may start thus to cause the air conditioner out of operation.
- When the unit runs for long in Cooling • Drying mode with the indoor humidity above 80%, water may condensate on the air outlet of the indoor unit and drip down.
- When the air conditioner shuts down due to power outage, the air conditioner will remain the status of shutdown after the power supply is resumed.

At this time, please press the  button on the remote controller to restart the air conditioner.

Operation mode	Outdoor ambient temperature
Cooling operation	About 21 ~ 43°C
Drying operation	About 1 ~ 43°C
Heating operation	Below 24°C


## When the remote controller can't be used (Emergency Operation)

When the batteries of the remote controller run out or the remote controller malfunctions, the emergency operation can be done using the EMERGENCY OPERATION switch.

### 1 Press the EMERGENCY OPERATION switch

Each time the EMERGENCY OPERATION switch is pressed, the unit will operate in the following sequence.



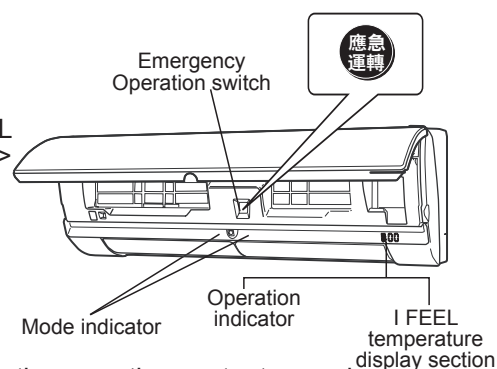
※ No operation mode other than this can be operated.  
The temperature control does not work for 30 minutes in test run and the unit is set to continuous operation. The fan speed is  (High).

<Display on the I FEEL temperature display section>



Emergency Cooling



Emergency Heating



30 minutes later, the operation contents are shown as in the following table.

Operation content	Cooling	Heating
Set temperature	24°C	24°C
Fan speed	 (Mediu)	 (Mediu)
Horizontal vanes	Auto	Auto

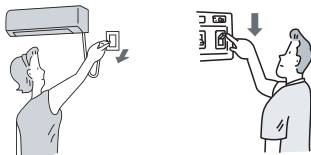
## During shutdown

### Press the Emergency Operation switch

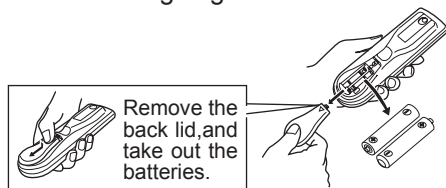
## When the air conditioner is not going to be used for a long time

To prevent the air conditioner from malfunctioning so as to use it on a long term, please pay attention to the following.

1. Turn off the power supply or pull out the power supply plug, after the air conditioner shuts down.



2. To prevent liquid leakage, take out all batteries when the remote controller is not going to be used for a long time.



## Electrical work

- Provide a dedicated circuit for the power supply of the air conditioner
- Be sure to observe the power supply switch capacity.

## When the air conditioner is to be used again

1. Check that the air inlet and outlet of the indoor • outdoor units are not blocked with any obstacles.
2. Check that the earth is connected securely and doesn't fall off. The earth may be connected on the indoor unit side.



## Please contact the professional personnel for air conditioner relocation

- When the air conditioner is to be removed or reinstalled because of rebuilding, moving, etc., please contact your dealer or the after-sales service center of our company.

**Please recheck the following items before you call for the repair personnel.**

**When the following problems occur, they are not the problems of air conditioner.**

**When you think 「problems occur」**

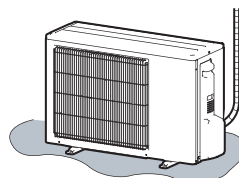
■ In Heating Operation...



The horizontal vanes are automatically set to blow horizontal air.

When the heating operation just starts or when cool air is prevented from blowing out or during defrosting operation or when the room temperature exceeds the set temperature, it will be set automatically to blow air horizontally.

■ From the outdoor unit...



Water flows out or white smoke comes out.

During Heating operation, water flows out from the outdoor unit or the vapor produced due to defrosting looks like white smoke.

■ The air conditioner can't receive the signal of remote controller.

Please refer to page 23 for the details.

■ The I FEEL temperature is displayed as 「FL5」 and all indicators are flickering.

Please reinstall the horizontal vanes.

**When the following occur, please contact the repair personnel.**

- After you confirm the items on page 23, the indoor unit still leaks water.
- When the remote controller can't be used.  
(When inverter-type fluorescent lamp lights and when the power supply to LCD and plasma TV and etc. is connected)
- When the power supply cord generates heat.  
(When the socket is loose)
- When the operation indicator and numbers in I FEEL temperature display section are flickering.
- When the power supply cord is partly damaged.
- The air conditioner may interfere with radio or TV reception.  
(A signal amplifier is recommended to be installed in areas where the reception is weak.)
- When foreign material is inserted into the air conditioner or water is sprinkled on the air conditioner.
- When the air switch frequently trips.

When you have any doubt or ask for repair, please contact the dealer or the after-sales service center of our company.

# Relocation-Inspection

## Inspection and repair

- When the air conditioner is used for several seasons,the performance may be lowered due to dirt inside the unit.
- Depending on the condition,an odor may be generated or condensate water may not drain out smoothly due to dirt,dust,etc.
- It is recommended that the unit be inspected and repaired by professional technicians in addition to normal maintenance. Please contact your dealer or the after-sales service center of our company.

## Operatin sound considerations

- Do not put an object around the air outlet of the outdoor unit.This may lower the capacity or increase the volume of the operating sound.
- If an abnormal sound is heard during operation,please contact your dealer or the after-sales service center of our company.

## Relocation

- When the air conditioner is to be removed or re-installed because of rebuilding,moving,etc.,professional technicians are needed.

### ⚠Warning

Repairs or relocation should not be done by the user.

If this is done incorrectly,it may cause fire,electric shock,or injury from the unit falling,water leaking,etc.The refrigerant with substance such as air mixed will cause pressure rise and lead to crack and etc.Therefore,please contact your dealer or the after-sales service center of our company.

# Safety Precautions For Installation

## 1.To ensure safety,please pay attention to the following

### ⚠Warning

<p>The user should not install this unit.</p> <p>If installation is done incorrectly,it may cause fire,electric shock,or injury from the unit falling,water leaking etc. Therefore,please contact your dealer or the after-sales service center of our company.</p>	<p>When installing or relocating the unit,make sure that no substance other than the specified refrigerant enters the refrigerant loop.</p> <p>Any presence of foreign substance such as air can cause abnormal pressure rise and may result in crack and etc.</p>
<p>Install the unit securely in a place which can bear the weight of the unit.</p> <p>If the installation location cannot bear the weight of the unit,the unit could fall causing injury.</p>	<p>When the unit is installed or relocated,don't seal in the refrigerant other than the specified type.</p> <p>If other types of refrigerant are sealed in,it may cause problems such as unsmooth operation,error operation and mechanical fault.Sometimes,there may be possibility of major safety problems.</p>
<p>Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block so the external stress is not directly applied on it.</p> <p>Incomplete connecting and securing could cause fire.</p>	<p>When the refrigerant is being reclaimed,shut down the compressor before the connecting pipe is removed.</p> <p>If the refrigerant pipes are disconnected while the compressor is running and the stop valve is open,air could be drawn in and the pressure in the refrigeration cycle could become abnormally high.This could cause the pipes to burst or injury.</p>
<p>When installing the unit,securely connect the refrigerant pipes before starting the compressor.</p> <p>If the compressor is started before the refrigerant pipes are connected and when the stop valve is open,air could be drawn in and the pressure in the refrigeration cycle could become abnormally high.This could cause the pipes to burst or injury.</p>	<p>Perform the installation accurately referring to the installation manual.</p> <p>Incomplete installation could cause fire or electric shock,injury due to the unit falling,or leakage of water.</p>
<p>If the refrigerant gas leaks during the installation, please replace the gas.</p> <p>If refrigerant gas comes into contact with naked fire,toxic gas will be generated.</p>	<p>Electrical work should be performed according to the installation manual.Be sure to use an exclusive circuit.</p> <p>If the capacity of the power circuit is insufficient or there is incomplete electrical work,it could result in fire or electric shock.</p>

## ⚠ Warning

<p>Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.</p> <p>If the electrical cover of the indoor unit and the service panel of the outdoor unit are not attached securely, it could result in fire or electric shock due to incoming dust, water, etc.</p>	<p>Perform the drainage and piping work securely according to the installation manual.</p> <p>If there is defect in the drainage and piping work or the indoor unit tilts, water could drop from the unit, soaking and damaging household goods.</p>
<p>Be sure to use the parts provided or specified parts for the installation work.</p> <p>The use of improper parts could cause accidents such as fire, electric shock or injury due to, the unit falling or leakage of water etc.</p>	<p>Do not use intermediate connection of the power cord to connect the power supply.</p> <p>This must cause error action of the unit, leading to abnormal operation.</p>
<p>Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet</p> <p>It could cause fire or electric shock due to defective contact, defective insulation, exceeding the permissible load, etc.</p>	<p>On the occasion where rain, small insects and foreign material may enter the room, the external holes on the wall through which the refrigerant pipe penetrates shall be sealed.</p>
<p>Earthing must be done.</p> <p>The socket for the air conditioner shall have exclusive earth wires. If there is no earth wire or the wires are not connected securely, electric shock may occur. Do not connect the earth to gas pipe, water pipe, lightning rod or telephone earth.</p>	<p>Electrical work should be performed according to the installation manual. Be sure to use an exclusive circuit.</p>
<p>Do not install the unit in a place where inflammable gas may leak.</p> <p>If gas leaks and accumulates in the area around the unit, it could cause an explosion.</p>	<p>Please install the air conditioner strictly in accordance with GB17790 Installation codes for household or similar purpose air conditioners.</p>
<p>Leakage protectors shall be installed.</p> <p>If there are no leakage protectors, electric shock may occur.</p>	<p>The unit shall be installed in accordance with national wiring regulations.</p>
	<p>Check that the refrigerant gas does not leak after installation has been completed.</p>
	<p>If the flexible power supply cord is damaged, it shall be replaced by exclusive cord or the exclusive assemblies purchased from the repair department.</p>
	<p>Then, if you have more doubts, please contact your dealer or the after-sales service center of our company.</p>

## 2. Precautions for R410A refrigeration system

### 2-1 Air conditioners applicable to R410A refrigeration

#### ⚠ Warning

- Use C1220 copper phosphorus (for copper and copper alloy seamless pipes) to connect the refrigerant pipes. Make sure the insides of the pipes are clean and do not contain any harmful contaminants such as sulfuric compounds, oxidants, debris, or dust. Use pipes with the specified thickness.
- Use ester oil, ether oil, alkylbenzene oil (small amount) as the refrigeration oil applied to the flared sections. If mineral oil is mixed in the refrigeration oil, oil deterioration may result.
- Do not use refrigerant other than R410A. If another refrigerant is used, the chlorine will cause the oil to deteriorate.
- Use the following tools specifically designed for use with R410A refrigerant. The following tools are necessary to use R410A refrigerant. Contact your nearest dealer for any questions.

Tools (for R410A)	
Pressure gauge	Flare tool
Dosing hose	Size measurement gauge
Gas leak detector	Vacuum pump adapter
Torque wrench	Electronic scale

- Be sure to use the correct tools. If dust, debris, or moisture enters the refrigerant lines, refrigeration oil deterioration may result.
- Do not use a charging cylinder. If a charging cylinder is used, the composition of the refrigerant will change and the efficiency will be lowered.

### 2-2 Precautions for equipment using R410A refrigerant

#### ⚠ Warning

- When installing or relocating the air conditioner, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. Air enclosed in the lines can cause pressure peaks resulting in rupture and other hazards.

MSZ-(P)AH09/12VA-H1	
Liquid pipes	φ6.35mm (Thickness 0.8mm)
Gas pipe	φ9.52mm (Thickness 0.8mm)

- Do not use pipes thinner than those specified above. Do not share the vacuum pump with R22 refrigerant systems.

## Precautions for installation and operation

- When the air conditioner is to be installed, please contact your dealer or the after-sales service center of our company.

Please don't install your air conditioner in the following places which are liable to cause failure.

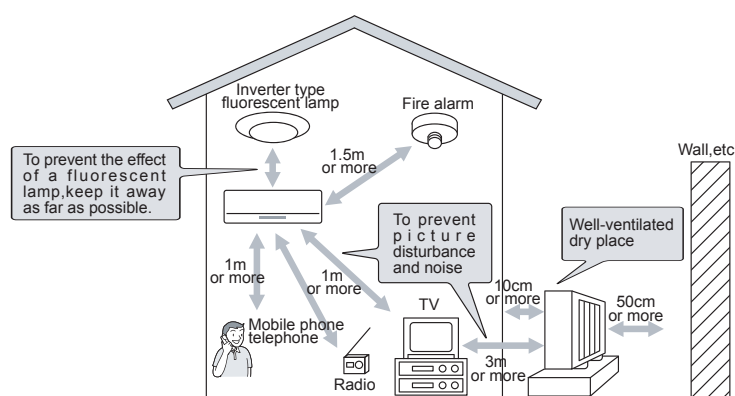
- Avoid dangerous places where there is leakage of flammable gas.
- Where there are high frequency supersonic machines and wireless machines.
- Where there is much machine oil.
- Salty places such as the seaside.
- Where sulfide gas is generated such as a hot spring.
- Avoid places where there is flying oil or a lot of oil smoke.
- Avoid places where there may be snow cover to block the outdoor unit.
- Avoid places where handling depends on cranes or ships.
- Select places where airflow is not blocked.
- Select places where cool air spreads over the entire room.
- The maximum distance and height difference between the indoor and outdoor units: Refer to the "extreme pipe length".
- Select rigid wall without vibration.
- Avoid places where it is exposed to direct sunshine.
- At a distance 1 m or more away from your radio and 3 m or more away from your TV antenna. (or operation of the air conditioner may interfere with TV images or produce noises.)
- In a place as far away as possible from fluorescent and incandescent lights (or the infrared remote control can't operate the air conditioner normally).
- Select places where the air strainer can be removed and replaced freely and easily.
- Select places not affected greatly by heavy wind or blowing snow. In areas with heavy snow, be sure to have measures against the snow (suggest installing a canopy, and/or a pedestal).
- Select places where airflow is good and dustless.
- Select places where rain or direct sunlight can be avoided as much as possible.
- Avoid any places where the ambient air quality is poor.
- Avoid places where there are volatile, corrosive and combustible chemicals.

※ Places where water is easy to drain.

※ In places with bad ventilation condition and which is very easy to cause air flow short circuit, the refrigeration performance may decrease and the power consumption may rise by about 10%. At this point, please install wind scoopers (to be purchased otherwise) to improve the performance of air conditioners.

- In order to reduce operation noise or vibration, you shall firmly install the unit in a solid frame.
- Select places where operation noise or blown hot air can't bother neighbor.
- Be sure not to put objects near the air outlet of the outdoor unit. Otherwise, this may cause the decrease in performance of the air conditioner and increase in operation noise.
- When installing the unit in a higher place, you have to fix the feet of the unit.
- Be sure to install the unit horizontally.
- Easy for maintenance and repair.
- In operation, if there is abnormal sound, please contact your dealer or the after-sales service center.

When the installation location of the outdoor unit should be at least 3 m away from the antennas for TV sets, radios, etc. provide larger distance to improve the reception quality if there is still apparent signal disturbance. Keep the fire alarm at least 1.5 m away from the air outlet of the indoor unit.



## Caution

- When new furniture is purchased or the room is being finished or the floor is rubbed with wax, don't use the air conditioner. After the finishing, if you want to use the air conditioner, please ventilate the room completely. Otherwise, the volatile substance produced in rubbing the wax may adhere to the inside of the air conditioner and lead to water leakage or flying dew from the air conditioner.





## 1-1 How to set slide switch(inside battery box of remote controller)

### Details of slide switch

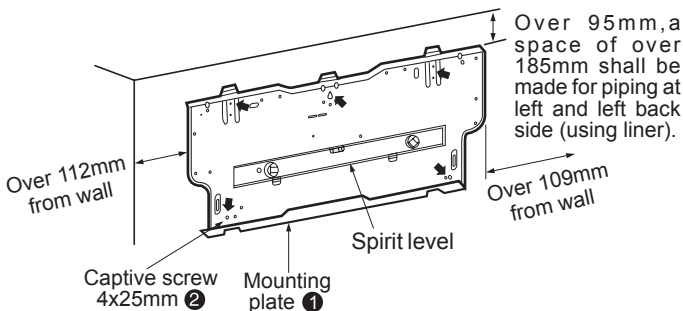
- ① Remove the front lid on the lower back of the remote controller.
- ② Be sure to set the slide switch inside the remote controller battery box to an appropriate position(in accordance with the installed position of the indoor unit.)If the switch is not set correctly set,the air conditioner may not function properly and then the air conditioner is impossible to reach the optimum operation status.  
Note:If the indoor unit installed more than 50 cm away from the side walls,cabinets or other nearby objects,set the switch to the "center" position.
- ③ Insert the two(AAA)1.5V batteries in the place.
- ④ Close the front lid on the lower back of the remote controller.
- ⑤ Press the **复位** button with a thin object(pen).



## 2.Installation for indoor unit

### 2-1 Fixing the mounting plate

- Take a structural part on the wall (such as a pole) as the reference so that you are sure to fix the mounting panel horizontally.If the indoor unit declines,the furniture will be wet and contaminated by water drop from the unit.



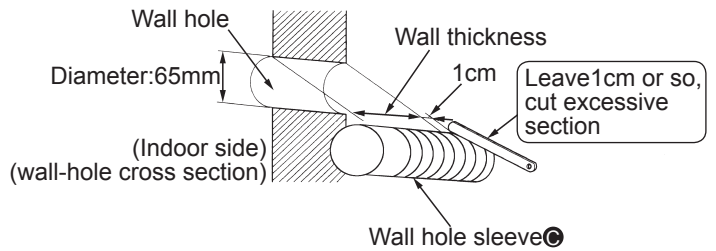
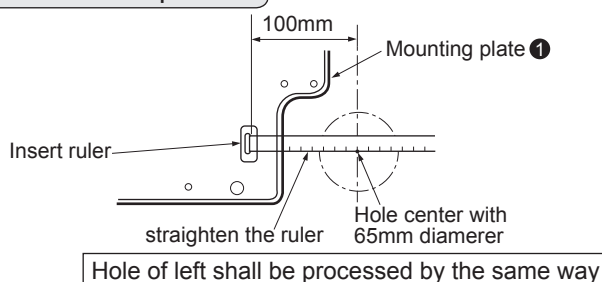
In order to avoid slight vibration of the mounting plate, ← Holes marked with should be fixed.

- If the user needs to break down the bore in the middle of the mounting plate,please stick plastic tape on the end face of the bore to prevent from being scratched (the tape shall be prepared by the user).
- When using expansion screws buried into cement wall,you shall use elliptical holes of 11×20 and 11×26 with 45cm apart from each other to fix the mounting plate.If the expansion screw is too long,use short screws sold in market.

### 2-2 Drilling hole in the wall

- ① Confirm the hole position in wall.
- ② Drill a hole(diameter:65mm)tilting slightly downwards from inside to outside.
- ③ Insert wall hole sleeve ③ in the wall hole.
- ④ Embed the putty ④ between wall hole and sleeve.

#### Confirm the hole position



Always use the wall hole sleeve ③,which prevents the connection wires between indoor and outdoor unit from contacting the metallic parts inside wall and rodent pest from occurring.

### 2-3 Specifications for power cord and connection wires

- Use special cables for the air conditioner

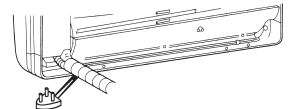
Power cord length(Length stretching from left/length stretching from right)	0.75/1.50m
Connection wires between indoor and outdoor unit.Specification of cables	YZW cable with the section area of 1.5mm <sup>2</sup>

- Lead out a power cord from the left or right bottom of the indoor unit.

#### ⚠ Caution

- Each air conditioner should be equipped with special power supply line.Power supply specification should accord with national regulations and be installed with independent switch.
- Don't cut off the power cord and connect it to other lines,or fire may occur.

When the power supply cord is left,please don't fold it into short part or press it in a small place.In addition don't press the power supply cord for the indoor unit between the wall and mounting plate and between the plate and the indoor unit.This may cause damage to the cord and result in heat,fire and etc.Don't bind the left cord together,but be sure to place it in the space behind the unit as shown in the following figure and store it properly.

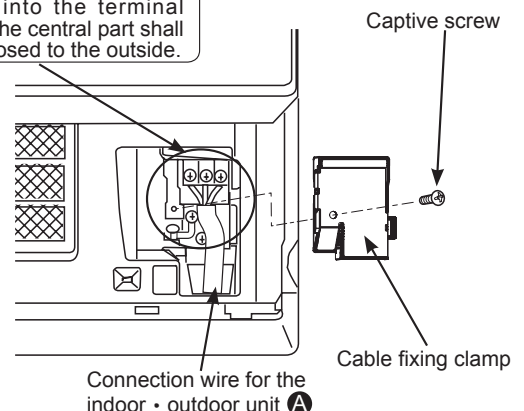


### 2-4 Connection of indoor • outdoor wires

- ① Remove the corner plate on the right bottom.
- ② Remove the fixing clamp of the wire.
- ③ Connect the earth to the grounding terminal on the electrical box.
- ④ Fix the connection wire for the indoor • outdoor unit on the terminal bed.(figure 1)
- ⑤ Make the fixing clamp hold the connection wire and then fix it with screws.
- ⑥ Install the corner plate properly.

(Figure 1)

Confirm that the wires have been put into the terminal block,and the central part shall not be exposed to the outside.



### ⚠ Warning

- Cables between indoor and outdoor unit shall be connected in good order using specified cables and connecting terminals be fixed well without being affected by external force.  
Fire may result from poor connection or fixture.
- Cable fixing clamps and electrical cover shall be fixed well, otherwise, fire or electric shock may result from entry of dust and moisture.
- Be sure not to make wrong connection.
- Electric shock may result from wrong grounding.

### ⚠ Caution

- Tighten terminal screws to avoid looseness.
- After tightening of the screws, pull the wires slightly to verify whether they are tightened.
- If the wires are not connected to the terminal block, the air conditioner can't operate correctly.

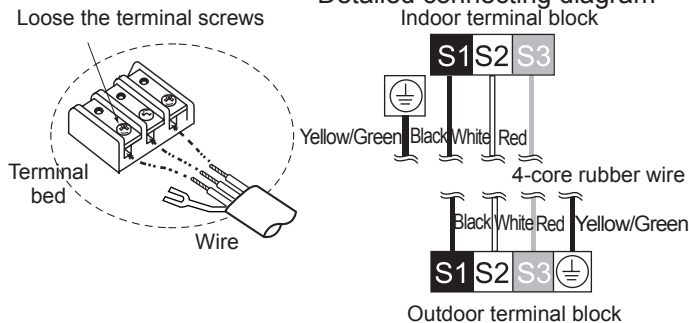
### ⚠ Warning

- Wires between indoor and outdoor terminal block shall be marked with number for corresponding connection.



## MSZ model Frequency conversion model

### <Detailed connecting diagram>

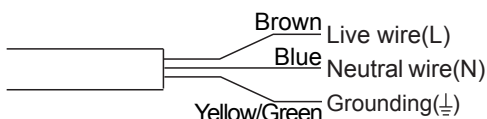


### ⚠ Warning

- Neutral line, live line and earth wire inside power socket at home shall be connected as shown in figure reliably without wrong connection and internal short circuit
- Fire may result from wrong connection.

## Power supply check

### Diagram for power socket in user's home



## 2-5 Auto restart function

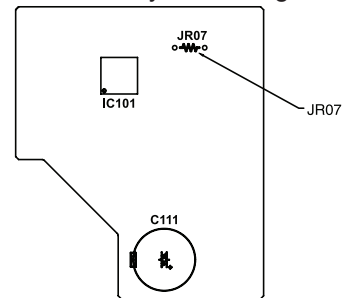
When the air conditioner is controlled by the remote controller, indoor unit electrical board will memorize operation mode, set temperature and fan speed. If there is a power-off during operation, Auto restart function is enabled to restart the air conditioner after recovery of power supply.

### How to set "Auto Restart Function"

- ① Remove the front panel and then remove the emergency operation button assemblies.
- ② Remove the screw of the electrical cover.
- ③ Remove the electrical cover.
- ④ Remove the connector of blade motor from CN151 and pull out the lower limit switch connector from CN1R1. Remove the vane motor conductor inside the electrical box. Pull out the electrical board and disconnect the resistor JR07 on it.

### Operation

- ① The operation setting is still reserved at power-off.
- ② 3 minutes after recovery of power supply, the air conditioner will restart automatically according to the memory.

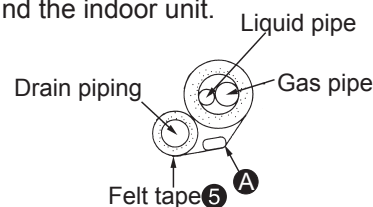


### ⚠ Caution

- 10 seconds after operating the remote controller, the operation setting will be reserved.
- When the Auto ON/OFF-Timer is activated, the timer setting will be cancelled in the event of power-off or power failure. As Auto Restart function is equipped inside the models, once the power is recovered, the air conditioner will start to operate three minutes later.
- If the air conditioner is turned off by the remote controller before power-off, Auto Restart function will be disabled due to power button's Off status in the remote controller.
- In order to prevent impulse current from affecting the power supply, please arrange a sequence to start other household appliances to avoid simultaneous power-on.

## 2-6 Piping work

- Be sure to place drainage hose under refrigerant pipe.
- Don't upheave or bend the drainage hose.
- Don't bind up the hose by pulling it.
- Be sure to bind up the drainage hose with commercially available insulated material when the hose goes through room.
- First wrap pipes with ⑤, then the drainage hose with felt tape ⑤ and put them into the pipe keeping section behind the indoor unit.



## Laying pipes backwards, rightwards and downwards

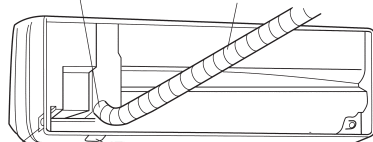
### Piping

#### ● Pipe layout

Put refrigerant pipe and drainage pipe together, wrap them with band.

Take care not to raise the drainage hose.

Cut this part when connecting pipe downwards.



Cut this part when connecting pipe rightwards.

Cut this part when connecting pipe downwards.

- Insert the refrigerant pipe and drainage pipe into the wall hole sleeve ⑥, hang the indoor unit's upper half on the mounting plate ①.
- Move the air conditioner right and left to check if it is hung on the mounting plate ① firmly.
- Push the unit's lower half into the mounting plate ①.

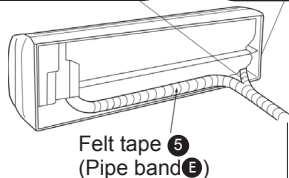
## Lay pipes leftwards or rear leftwards

#### ● Pipe layout

Put refrigerant pipe and drainage pipe together, wrap them with band first and then with felt tape ⑤.

Take care not to raise the drainage hose.

Cut this part when connecting pipe leftwards.



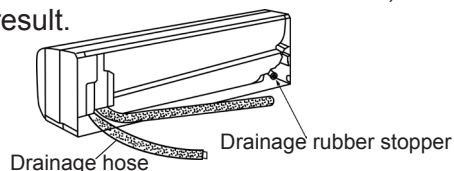
Felt tape ⑤ (Pipe band ⑤)

Wrap the pipe from pipe end with felt tape ⑤. (The folded part of the felt tape ⑤ shall be one third of its width).

Use a tape to fix the end of the felt tape ⑤.

## Refitting for drainage hose

- The drainage hose should be refitted in the event of piping leftwards and rear leftwards. Otherwise, water dripping may result.



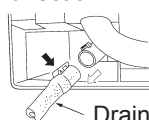
### 1. The rubber stopper at the rear right of indoor unit.

Remove the rubber stopper by grasping the sharp lug.



### 2. Remove the drainage hose at the rear left side of the indoor unit.

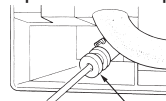
Pull out the drainage hose by grasping the handle knob shown by arrow ⇨ in the direction.



Drainage hose

### 3. Slip the rubber stopper into the position in which the drainage pipe is installed at the rear of indoor unit.

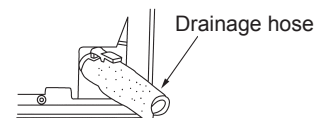
Use an Allen key to press the stopper into the joint of the drain plate.



Drainage rubber stopper

### 4. Connect the drainage hose to the corresponding connection position at the rear right of indoor unit.

Insert the drainage hose in the joint of the drain plate. Be sure to confirm if the hose is clamped into the prominent detent.



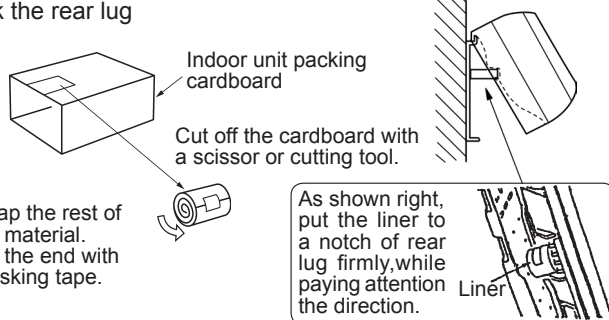
Drainage hose

## Connection between the refrigerant pipe and extension pipe

If extension pipes or wires have been buried into a wall, please perform piping as described in the following key points.

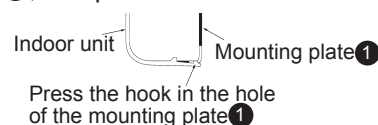
① Hook the mounting plate ① with indoor unit's upper part. After considering inclusion of the pipe and placing the unit as possible as close to the left, cut off a piece of packing material (used as liner) to lock the rear lug, raise the indoor unit as shown in right figure..

- Connect the refrigerant pipe and extension pipe ⑤.
- Cut off a part of packing material (used as liner)
- Lock the rear lug



## Installation of indoor unit

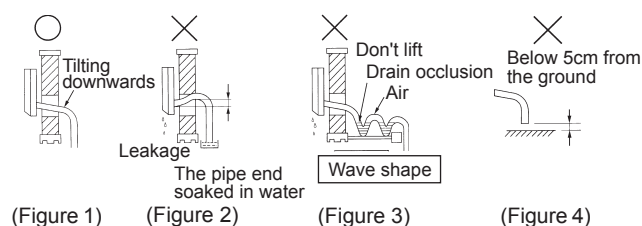
- Pass the pipe through the wall, hang and install the unit on the mounting plate ①, then push in the unit until a click is heard.



## 2-7 Laying drainage pipe

In order to make a smooth drainage, the drainage pipe shall be connected tilting downwards. (Figure 1)

Don't connect the pipe as shown in Figure 2-3.



(Figure 1)

(Figure 2)

(Figure 3)

(Figure 4)

If it is not long enough for the drainage hose installed at the indoor unit, you can use the drainage hose ⑥ in accessory for connection.

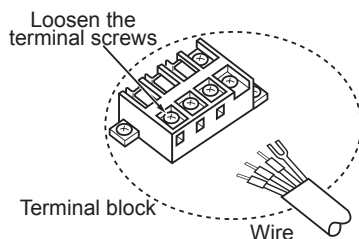
When the hose goes through room, be sure to bind up the drainage hose with commercially available insulated material.



### 3. Installation of outdoor unit

#### Connection between indoor and outdoor unit

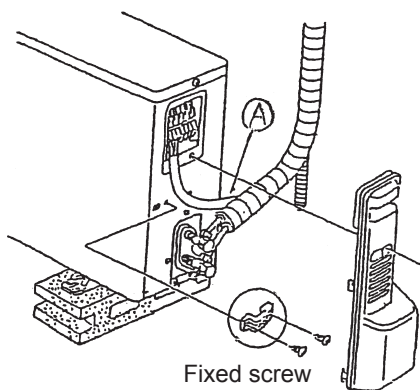
- Connect the wires from the indoor unit to the terminal block correctly.
- Take care not to enable the wires to contact pipe.



#### ⚠ Caution

- Don't make wrong connection. The air conditioner can't operate normally in case of wrong connection.
- Tighten the screws to avoid looseness.
- Pull the wires slightly to verify whether they are tightened.

Be sure to use this wire clip to fix indoor • outdoor unit's connection wire **A** in good order.



#### ⚠ Warning

Fix the service board of outdoor unit well. Otherwise, fire and electric shock may result from entry of dust and moisture.

#### ⚠ Caution

- The mounting surface of the air conditioner should be solid enough to bear the weight. The bearing capacity shall not be lower than actual born weight (at least 200kg/m<sup>2</sup>).
- The mounting surface is decorated with wooden, metallic or non-metallic structure. Corresponding measures like reinforcement support and anti-vibration shall be taken in case of insufficient strength.
- Installation rack shall be such a fixture that the air conditioner can be fixed securely on the mounting surface.
- Confirm the diameter and depth of the mounting hole for the fixture based on hardness of the mounting surface material, select applicable expansion bolt to ensure unit's stability, firmness and reliability.
- Try to avoid rainy days, windy and snowy days as well as thundery days during installation. If necessary, relevant measures shall be taken to protect people from injury.

### 4. Complete indoor • outdoor unit connection and perform test run

#### 4-1 Piping connection

##### ① Indoor unit piping

Connect liquid and gas pipes to the unit.

- First, align with the center, tighten the pipe nut with hand until you can't proceed.
- Refer to the following torque table, use two wrenches to tighten the indoor unit side connection pipe connector. Take care not to tighten it excessively to avoid damaging the flared part.

Pipe diameter		torque Tightened	
mm	Inch	N·m	kgf·cm
6.35	1/4	13.7 to 17.7	140 to 180
9.52	3/8	34.3 to 41.2	350 to 420
12.7	1/2	49.0 to 56.4	500 to 575



#### ⚠ Warning

- When installing the unit, securely connect the refrigerant pipes before starting the compressor.

##### ② Outdoor unit connection

As the same connection with that of indoor unit, connect the pipe to the outdoor unit stop valve (two or three-way) pipe connector.

- Tighten the connector with the same torque as that of indoor unit by torque wrench or common wrench.

#### Heat insulation and wrapping band

- ① Pipes and valves connected at side of indoor unit should be heat insulated.
- ② All pipes starting from the outdoor unit's pipe entrance shall be wrapped with band **E**.
- Fix the end of band **E** with tape.
- If the pipe goes through ceiling, toilet or other locations with high temperature and high humidity, please wrap the pipe with commercially available heat insulated band to avoid condensation.

#### 4-2 Vacuumizing and leak detection test

##### Vacuumizing

Connect the refrigerant pipe (liquid and gas) between indoor and outdoor unit

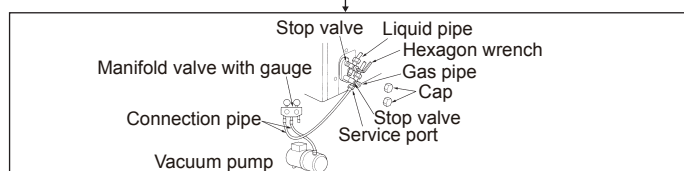
Remove the stop valve's service cap at the gas pipe of outdoor unit (Vacuumizing can't be done without removing the cap)

When vacuum pump is recommended to be used

Connect the Manifold valve with gauge and vacuum pump to the stop valve's service port at the gas pipe of outdoor unit

Run the vacuum pump (vacuumize the pipe over 15 minutes)

Check the vacuum with the manifold valve with gauge, close the valve and stop the pump



Remove the Manifold valve with gauge from the stop valve service port quickly

Open all the stop valves at liquid and gas pipes, or performance reduction or failure may result

It's necessary to add refrigerant if pipe length is within the scope

It's necessary to add proper refrigerant if pipe length exceeds the scope

Screw the service cap securely

Screw the caps of two stop valves securely

Make a leakage detection test



	Tightening torque	
	N·m	kgf·cm
Service cap	13.7 to 17.7	140 to 180
Shut off valve cap	19.6 to 29.4	200 to 300

#### 4-3 Test run

##### MSZ model Frequency conversion model


- Before the test run, recheck if there is wrong connection. Wrong connection may hinder normal operation or lead to fusing as well as malfunction.
- Perform the test run by emergency button. At the time of pressing the button, the machine begins to operate in cooling mode based on optional mode for 30 minutes. The thermostat will be disabled within the 30 minutes. After the duration, the machine starts emergency operation in cooling or heating mode at the set temperature of 24°C.
- Test run shall be performed in the following process.

##### Operation process

- Press the emergency button. Each time the button is pressed, switching is made in the following sequence.

Emergency cooling → Emergency heating → Shutdown

- ※ No operation mode other than it can be run.

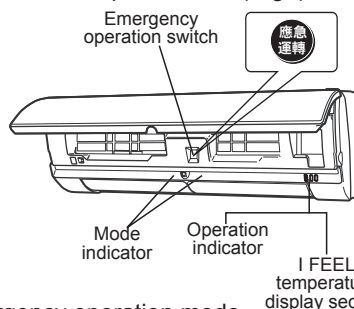
In the first 30 minutes, the temperature can't be adjusted and the unit will run continuously. The fan speed is  (High).

<Display on the I FEEL temperature display section>

Emergency cooling




Emergency heating



#### Caution:

- This is the indication in emergency operation mode.

##### Make sure to receive the signal from the remote controller

After pressing the  button of the remote controller, please confirm whether there is beep from the indoor unit. Then press the button again to turn off the unit.

Under the control of remote controller, the unit will quit the emergency operation when receiving the signal from the remote controller.

- In order to protect the compressor, the outdoor unit will not be enabled even if the air conditioner restarts three minutes after stopping operation.

#### 4-4 Notice for user information

- Based on operating instructions, please describe the way to adjust and control temperature, disassembly of air filter and vertical vane, way of cleaning and precautions in operation.

### 5. Relocation and maintenance after installation

#### 5-1 How to install front frame

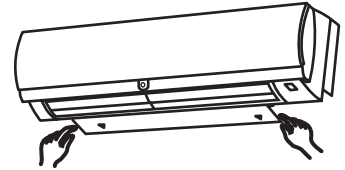
- ① Set the horizontal vane to position No. 3 (page 10) before installing the front frame.
- ② Insert the bottom side of front frame under the horizontal vane.
- ③ Fix the top of the front frame securely.
- ④ Press the agraffe of front frame and fix the front frame on the air conditioner.

#### 5-2 Remove the indoor unit

Pull out the bottom part of indoor unit from the mounting plate.

##### Loosen two angles

As shown below, pull the left and right corner part of indoor unit downwards and forwards and loosen the hook.

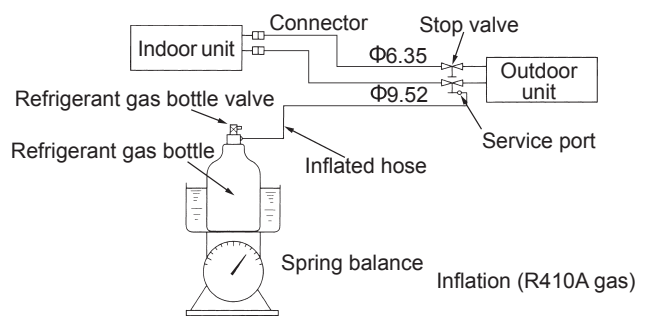


#### 5-3 Supply of refrigerant

- ① Connect a gas bottle to the service port of stop valve (three way).
- ② Purge the pipe or hose using the refrigerant from the gas bottle.
- ③ Supply the refrigerant with specified amount during air conditioner operation in cooling mode.

##### ⚠ Precautions

- During supply of the refrigerant, don't place the gas bottle upside down, or problems may result.



- In order to keep high pressure in gas bottle, heat the bottle with warm water (40°C) in cold weather. But don't heat it with fire or steam.

Note: ① An indoor wiring diagram is stuck inside indoor unit front panel.

② Outdoor wiring diagram is stuck on outdoor unit electrical control box.

#### 5-4 How to reclaim refrigerant

- ① Be sure to use a pressure gauge.
- ② Enable a cooling operation first.
- ③ Then, close the valve (liquid valve) at high pressure side completely with the readings of 0-0.05MPa (about 30-40s) in pressure gauge, finally close the valve (gas valve) at low pressure side to stop operation immediately.
- ④ You can't remove the connection pipe until you ensure the closure of the two valves (liquid and gas) and power-off.

##### ⚠ Warning

- When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes. The compressor may burst if air etc. get into it.

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