Panasonic®

Operating Instructions

Air Conditioner

Model No.

Indoor Unit	Outdoor Unit
CS-U9YWA	**CU-U9YWA**
CS-U12YWA	**CU-U12YWA**
CS-U18YWA	**CU-U18YWA**

操作說明書 2-14
空調器

在操作空調器前，請細讀此操作說明，並保存此書以備日後參考。
附帶的安裝說明須保存並請安裝人員在安裝前閱讀。
遙控器包裝在室內機箱子裏並請安裝人員在安裝前取出。

Operating Instructions 15-27
Air Conditioner

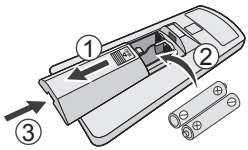
Before operating the unit, please read these operating instructions thoroughly and keep them for future reference.
The included Installation Instructions should be kept and read by the installer before installation.
Remote control is packaged in the indoor unit and removed by the installer before installation.

以最節能的方式提供最高的舒適感和乾淨空氣。

在室內機遙控接收
器的 8 米範圍內
使用遙控器。

簡易指南

裝入電池



① 拉出遙控器的背蓋。

② 裝入 **AAA** 或 **R03** 電池。

③ 把蓋關上。

A 時間設定

① 按下 CLOCK 並設置時間 ∧ ∨ 。

② 確認 SET 。

感謝您購買 Panasonic 空調器。

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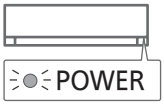
附件

- 遙控器
- AAA 或 R03 電池 × 2
- 遙控器托架
- 用於遙控器托架的螺釘 × 2

本操作說明書裡的圖解僅作為說明用途，並且可能與實際產品有所區別。若因為產品改進而發生變更，恕不另行通知。

B 基本操作

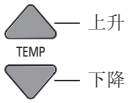
① 按 OFF/ON 開始/停止操作。



- 請注意 OFF 指示燈顯示在顯示屏以啟動本機。

② 按 MODE 選擇所需的模式。

③ 選擇所需要的溫度。



選擇範圍：
16.0 °C ~ 30.0 °C /

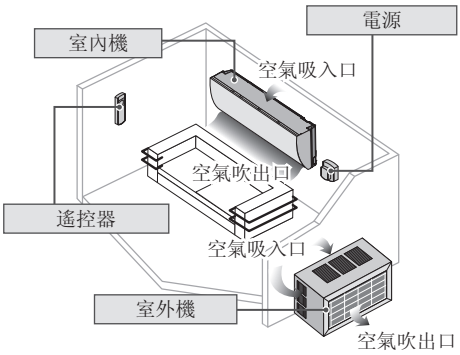
安全措施

為了防止個人傷害，危害其他人或財物的損失，請遵守以下指示：
因不遵守以下指示導致的錯誤操作將引起傷害或損壞，其嚴重程度分類如下：
此設備不適合用于公共場所。

警告	此標識所示的行為有可能導致嚴重傷害或死亡。
注意	此標識所示的行為有可能導致傷害或財產損失。

要遵守的指示按下列符號分類：

	此符號表示被禁止的行為。
	此符號表示務必執行的行為。



警告

室內機及室外機

此裝置不適合殘疾、感應欠佳或智障，經驗與知識不足的人士（包括兒童）使用。除非負責其安全的監督人從旁監督或指示如何正確使用此裝置。務必監督兒童以確保他們不會玩弄本機。

請諮詢授權經銷商或專業人員清潔內部零件，修理、安裝、拆除、拆卸、和重新安裝本機。安裝及處理不當將導致漏電，觸電或火災。

請向授權經銷商或專業人員確認有關任何指定製冷劑類型之運用。使用所指定以外的製冷劑類型會導致產品損壞，爆裂並導致傷害等。

切勿使用除製造商建議以外的方法來加速除霜過程或清理。
任何不適當的方法或使用不相容的材料可能導致產品損壞，爆裂和嚴重傷害。

切勿將本機安裝在爆炸或可燃性的環境中。否則會導致火災。

切勿把手指或其他物件插入空調器的室內或室外機以免受到旋轉部件傷害。

閃電時切勿觸摸室外機，否則會導致觸電。

切勿長時間受冷氣流直接吹拂以免過冷。

切勿坐或踩踏在主機上以免意外摔跤。

遙控器

切勿讓嬰兒和小孩玩遙控器以免不小心吞下電池。

電源

切勿採用改裝電線，接合電線，延長電線或非指定的電線，以免過熱及火災。

為免過熱，火災或觸電：
- 切勿與其他設備共用一個電源插座。
- 切勿用潮濕的手操作。
- 切勿過度扭曲電線。
- 切勿以插入或拉出插頭的方式來操作或停止本機。

如果電線損壞，必須由製造商、其服務代理商或具有同等資格的合格人員進行更換以免遭受危害。

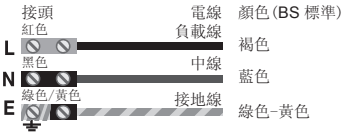
強烈建議您安裝接地漏電電源斷路器 (ELCB) 或殘餘電流裝置 (RCD) 以免觸電或火災。

為免過熱，火災或觸電：
- 妥當插入插頭。
- 務必定時用乾布擦掉插頭上的灰塵。

當出現任何異常/故障時，請停止使用本機，拔出電插頭或關掉電源開關及斷路器。
(煙霧/火災/觸電危險) 異常/故障舉例
- 接地漏電電源斷路器 (ELCB) 頻繁跳閘。
- 出現燒焦味。
- 本機出現異常噪音或振動。
- 室內機漏水。
- 電線或插頭變得異常熱。
- 無法控制風量。
- 本機立即停止運轉，雖然已經打開準備操作。
- 雖然已經停止操作，風扇仍然不停止轉動。

立即諮詢經銷商以進行保養/修理。

更換或安裝電源插頭必須由授權/合格人員進行。主導電體裏的電線由下列不同的顏色分類：



電線顏色會隨國家電線代碼的標準而有所區別。

本設備必須接地以免觸電或火災。

為免觸電，請在下列情況時關閉電源並拔出插頭：
- 清洗或維修之前，
- 長期不使用時，或
- 異常強烈閃電時。

注意

室內機及室外機

切勿用水、苯、稀釋劑或潔亮粉末清洗室內機以免損壞或腐蝕本機。

切勿充作其他用途，如貯藏食物、動物、植物、藝術品或其他物件。否則會破壞品質等。

切勿在氣流出口使用任何易燃器具以免引起火災。

切勿讓植物或寵物受冷氣流直接吹拂以免損傷等。

切勿觸摸尖銳的鋁散熱片以免受到尖銳部件傷害。

當在地面打蠟時切勿ON (開啟) 室內機。打蠟完畢之後，請先讓房間良好通風再操作本機。

切勿將本機安裝在油煙重的場所以免損壞本機。

切勿拆卸本機來進行清洗工作以免受傷。

當清洗本機時切勿踩踏在不穩固的架子上以免受傷。

切勿將花瓶或水容器放置在本機上。水會進入本機而導致絕緣受到破壞。這會引起觸電。

在操作過程中切勿長時間打開窗戶或門，否則可能導致低效的電力使用和不舒適的溫度變化。

為免漏水，請確保排水軟管：
- 連接正確，
- 不受通水道及容器阻擋，或
- 不浸在水裏

長時間使用或與其他易燃設備一起使用後請定時讓房間通風換氣。

長期使用後，請注意安裝螺栓和螺母是否有損壞以免主機墜落。

遙控器

切勿使用可充電電池 (Ni-Cd)。它會損壞遙控器。

為免遙控器失靈或損壞：
- 如果準備長期不使用本機，務必將電池取出。
- 務必採用同類型的新電池並對準電極插入。

電源

切勿以抽拉電線的方式來拔除插頭以免觸電。

nanoe™-G 產生器

請勿觸摸尖角，以免造成傷害。

如何使用

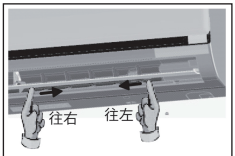
在正常操作下不使用。

按下以恢復遙控器的出廠設定。

調節風向

朝上方向:
- 切勿用手調節葉片。

朝橫方向:
- 對於朝橫方向，可如圖所示手動調整。



想調整左右導風板角度時請推動連桿往左或往右。

調節 FAN SPEED 和 QUIET 狀況

FAN SPEED:
- 至於AUTO(自動)運轉，室內風扇風量將依據運轉模式自動調節。

QUIET:
- 此功能將減低氣流噪音。

使用POWERFUL的狀況

POWERFUL:
迅速達到設定溫度
- 此功能需要手動開啟或關閉。

享受清新和更乾淨的環境

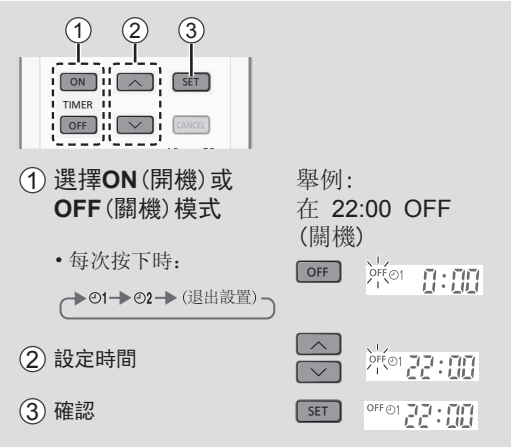
- 這是與 nanoe™X 和 nanoe™-G (nanoe™ TECHNOLOGY) 一起的組合操作。
- 用 OFF/ON 啟動本機時 nanoe™ TECHNOLOGY 功能會自動開始操作。
- 欲手動ON(啟動)或OFF(關閉)此操作時可按下 。
- 即使本機關閉時，此操作仍可被啟動。在此情況下，葉片和風量將根據遙控器的設定進行操作。
- 如果在操作期間發生電源中斷，電源恢復後此操作將立即恢復。

睡眠時的最佳舒適度

- 按睡眠按鍵(空調器上睡眠指示燈亮起)，空調器進入睡眠行程。
- 再按一次則取消睡眠功能。
- 睡眠模式啟動後，僅在空調器上亮燈表示機能開啟。
- 在睡眠運轉期間，為避免過冷、過熱，溫度、風量及風向與遙控器設定無關，會自動調節，若無法滿足使用者需求時可重新設定溫度或風量。

設定預約時間

具有兩組ON(開機)及OFF(關機)定時預約時間以在不同的預約時間下ON(啟動)或 OFF(關閉)主機。



- 按下 ON 或 OFF 以選擇相關的 ⏲1 或 ⏲2 然後按下 CANCEL 以取消ON(開機)或OFF(關機)定時預約時間。
- 如果自行取消定時預約或因爲發生停電而被取消，您可按下 ON 或 OFF 以選擇相關的 ⏲1 或 ⏲2 然後按下 SET 以恢復之前的設定。
- 最接近的定時操作設置會顯示，並且會順序啟動。
- 定時預約機能將依據遙控器所設定的時間操作，並且一旦被設定後會每天重覆操作。至於時鐘設定，請參閱簡易指南。

注意

POWERFUL , , SLEEP • 可以同時選取。 • 可以在任何模式中操作。 • 再分別按下相關的按鈕即可取消操作。	FAN SPEED/ QUIET , POWERFUL • POWERFUL，QUIET 和 FAN SPEED 無法被同時選取。

學習更多…

運轉模式

AUTO（自動）：在運轉時，POWER（電源）指示燈將在開始時閃爍。
本機會在每 10 分鐘依據設定及室溫選擇運轉模式。

COOL（製冷）：提供高效舒適製冷，以滿足您的需求。

DRY（除濕）：空調以低速運轉，進行極為柔和的製冷運轉。

節能溫度設定

在所建議的溫度範圍內操作本機可為您節省能源。

COOL（製冷）：26.0 °C ~ 28.0 °C / 79 °F ~ 82 °F。

氣流方向

在COOL（製冷）DRY（除濕）模式下：
如果設定為AUTO（自動）風向時，葉片將自動向上/下擺動。

自動重新啟動控制

如果在電源中斷後恢復電源，在一段時間後運轉將自動重新啟動於先前的運轉模式和風向。
• 當TIMER（定時器）被設置時此功能將無效。

nanoe™X 抗菌功能

正常啟動運轉

❶ 當按下 OFF/ON 按鈕時，nanoeX 機能會依據前回的設定動作（初通電預設是開）。

❷ 再按一次 按鈕，取消nanoeX 機能，接收器上的nanoeX 指示燈滅。

單獨啟動 nanoeX（待機狀態下）

❶ 在待機狀態下，按下 按鈕，可單獨啟動nanoeX 機能，此時機體為送風。
- 此狀態下可按 AIR SWING 按鈕進行風向調整。

❷ 再按下 OFF/ON 按鈕，方能取消nanoeX 機能。

註1：nanoeX 機能啟動時，將同步啟動nanoe-G。

操作條件

在表中所示的溫度範圍內使用此空調器。

溫度 °C (°F)		室內		室外	
		DBT	WBT	DBT	WBT
COOL（製冷）	最高	32 (89.6)	23 (73.4)	43 (109.4)	26 (78.8)
	最低	16 (60.8)	11 (51.8)	16 (60.8)	11 (51.8)

DBT: 乾球溫度，WBT: 濕球溫度

提醒

■ 在清潔冷氣機時，請停止運轉關閉無熔絲開關

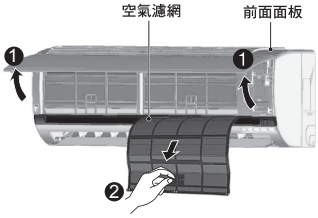
■ 避免直接用水清洗冷氣機

空氣濾網取下及面板拆卸方法

■ 空氣濾網取下步驟

❶ 前面面板打開置水平位置(請不要用力過猛，否則會損壞前面面板)。

❷ 此時，可將空氣濾網取下。



■ 前面面板取下步驟

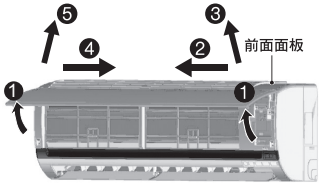
❶ 前面面板打開置水平位置(請不要用力過猛，否則會損壞前面面板)。

❷ 前面面板向左靠

❸ 前面面板右側繼續抬高脫出

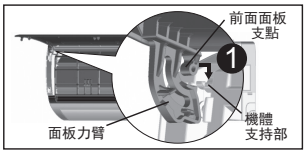
❹ 前面面板再向右靠

❺ 前面面板左側繼續抬高,前面面板即可脫出

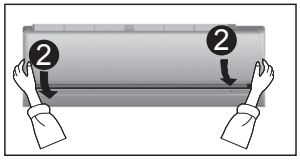


■ 前面面板裝上步驟

❶ 前面面板成水平位置，面板力臂往內使前面面板支點與機體支持部嵌合。



❷ 將前面面板向下壓後蓋上。
（左、右、中間下方輕壓）

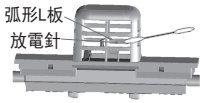


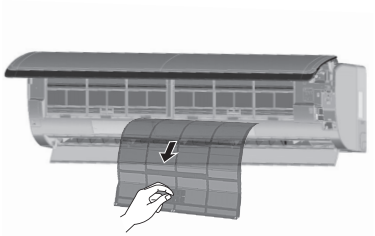
機體．遙控器的保養

- 請用軟布擦拭。
- 避免用下列物品
  請勿使用 40 度以上的熱水、稀釋劑等揮發性溶劑及去污粉等物。（使用化學抹布時請遵照使用注意事項來使用）
- 前面板請勿用水直接清洗。

空氣濾網及nanoe-G清潔

- 空氣濾網用吸塵器將污垢吸淨，特別油污請用中性清潔劑輕輕清洗（避免造成濾網破損）後，放在陰涼處陰乾，避免日光直接照射。
- 空氣濾網清洗時，不可用化學藥劑或熱水清洗。
- 清洗濾網同時，也將冷氣機切斷電源後對nanoe-G產生器清潔，利用乾式棉花棒對放電針及弧形L板進行清潔，由正面右側中間孔位進入nanoe-G產生器中，輕微的對放電針上下來回擦拭，放電針擦拭完畢後，由正面右側最上方孔位進入對弧形L板進行擦拭，擦拭方式以左右來回進行。
  （乾式棉花棒切勿添加酒精等液體）





■ 濾網破損（請立即更換）或更新時，請洽本公司經銷商或服務站。

保養及檢查

提醒

■ 長時間不用時，為了安全起見請關閉無熔絲開關

使用季節前的檢查

■冷風吹得出來嗎？

讓冷氣機運轉 15 分鐘，當室內機出風口及吸入口的溫差為冷氣8度以上即為正常狀況。

■出風口及吸入口有阻塞嗎？

■遙控器的電池是否已換過了？

當遙控器顯示部模糊時請儘早更換電池。

長時間不使用時

1. 啟動nanoe模式2至3小時是徹底排除留在內部機件的濕氣，以防止微菌滋生。
2. 停止冷氣運轉關閉無熔絲開關
3. 取出遙控器內電池

檢查設備須知

- 每年使用後機體內部會藏有污垢、降低性能。
- 依其使用狀況會有惡臭、或因垃圾、灰塵使除濕水排水不良。

除了平常的保養外，建議您定期檢查設備。
費用等詳細情形請洽詢直屬服務站或經銷商。

故障檢修

以下現象並非表示故障。

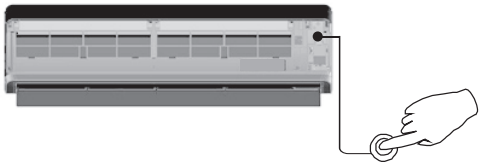
現象	原因
在打開主機以前POWER(電源)指示燈會閃爍。	• 這是當ON(開機)定時預約時間被設定時準備開始操作的初步工作。 • 當設定了定時ON(開機)時，為了在您設定的時間內達到您所設定的溫度，空調器會在設定的時間提前運轉(高達 30 分鐘）。
TIMER(定時器)的指示燈一直亮。	• 一旦設定後，定時預約設定會每天重覆操作。
重新啟動後，運轉延遲幾分鐘。	• 此延遲用於保護本機壓縮機。
在自動風量設定中，室內風扇時開時停。	• 這是為了排除周圍所發出的異味。
室內有異味。	• 這可能是牆壁、地毯、家具或衣物散發出來的氣味。
運轉時發出吱嘎噪聲。	• 溫度變化造成主機膨脹或收縮。
運轉時，聽見類似流水聲。	• 機內製冷劑流動的聲音。
室內機散發出霧氣。	• 製冷導致冷凝現象。
室外機滴水/蒸氣。	• 這是配管表面水蒸氣冷凝或蒸發的現象。
一些塑膠部件變色。	• 變色是受塑膠部件使用的材料種類影響。當暴露於熱、太陽光線、紫外線或環境因素會加速變色。
長期使用後，灰塵會積累在本機的正面板，格柵和四周牆壁。	• 灰塵積累的原因是 nanoe™-G 的負離子產生的空氣淨化效果。定時用清潔的微濕布來清除灰塵。
當 nanoe™ TECHNOLOGY 操作時，室內機發出微小的嗡嗡聲。	• 這是 nanoe™X 產生器作業時的正常現象。如果您介意此聲音，請取消 nanoe™ TECHNOLOGY 操作。

在進行維修之前請先檢查以下各項。

現象	檢查
在COOL(製冷)模式運轉時無法有效地操作。	• 設定正確溫度。 • 關上所有房門及窗戶。 • 清洗或更換濾塵網。 • 移除阻擋空氣吸入或吹出口的任何阻礙物。
運轉時產生噪音。	• 檢查是否裝斜了主機。 • 妥善關閉正面板。
遙控器不操作。 (顯示屏變暗或傳輸信號微弱。)	• 正確地安裝電池。 • 更換微弱的電池。
本機不能啟動。	• 檢查是否是電流斷路器跳開了。 • 檢查是否已設定預約時間。
本機沒有從遙控器收到信號。	• 確認接收器不受阻礙。 • 某種類型的螢光燈可能會影響訊號接收。請諮詢授權經銷商。
當 nanoe™ TECHNOLOGY 啟動時，室內機的 nanoe™ TECHNOLOGY 指示燈閃爍或不亮。	• 使用遙控器來檢索錯誤代碼，並諮詢授權經銷商。

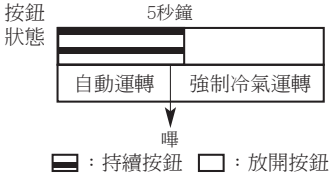
遙控器不能使用時

電池沒電或遙控器不見時，請按“停止/運轉”按鈕讓冷氣機運轉，此時為自動運轉。



■ 操作方法

- 按下“停止 / 運轉”按鈕，機體運轉。
- 重新按下“停止 / 運轉”按鈕，機體停止運轉。
- “停止 / 運轉” **按鈕的控制方法**



■ **指示燈太亮**

• 持續按下 ∧ 5 秒以調暗或恢復主機的指示燈亮度。

■ **進行長期不使用后的換季檢查**

• 檢查遙控器的電池。
• 檢查並確保室內機或室外機的空氣吸入或吹出口順暢無阻。
• 用自動OFF/ON(關/開)按鈕來選擇COOL(製冷)運轉。運轉 15 分鐘後，在正常情況下，室內機空氣吸入及吹出口的溫差為：

COOL(製冷)：≥8 °C / 14.4 °F

不可維修的情況

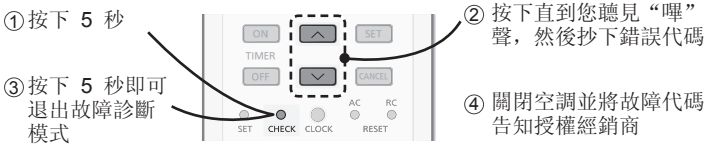
若出現以下情況，請關閉電源並拔出插頭，然後諮詢授權經銷商：

• 運轉時發出異常噪音。
• 有水/異物進入遙控器。
• 室內機漏水。
• 電源斷路器經常跳閘。
• 電線異常發熱。
• 開關鈕或按鈕不能正常操作。

故障檢修

如何檢索錯誤代碼

如果主機停止操作及TIMER(定時器)指示燈閃爍，用遙控器檢索錯誤代碼。



• 至於某些錯誤代碼，在運轉啟動時如果您聽見 4 聲嗶聲可重新啟動主機於某些限制運轉。

診斷顯示	異常/保護控制
H 00	沒有故障的記憶
H 11	室內/室外異常通訊
H 12	室內機容量不匹配
H 14	室內進氣溫度感應器異常
H 15	室外壓縮機溫度感應器異常
H 16	室外電流變壓器(CT)異常
H 17	室外吸氣溫度感應器異常
H 19	室內風扇馬達機制鎖定
H 21	室內浮球開關操作異常
H 23	室內熱交換器溫度感應器 1 異常
H 24	室內熱交換器溫度感應器 2 異常
H 25	室內離子裝置異常
H 26	減低ION(離子)異常
H 27	室外空氣溫度感應器異常
H 28	室外熱交換器溫度感應器 1 異常
H 30	室外排放管溫度感應器異常
H 31	異常的游泳池感應器
H 32	室外熱交換器溫度感應器 2 異常
H 33	室內/室外錯誤連接異常
H 34	室外散熱器溫度感應器異常
H 35	室內/室外水逆流異常
H 36	室外氣管溫度感應器異常
H 37	室外液管溫度感應器異常
H 38	室內/室外不匹配(品牌代碼)
H 39	異常的室內操作機或預備機
H 41	異常的電線或管道連接
H 50	抽風機馬達鎖定

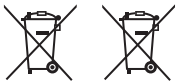
診斷顯示	異常/保護控制
H 51	抽風機馬達鎖定
H 52	左右限位開關固定異常
H 58	室內氣體感應器異常
H 59	環保感應器異常
H 64	室外高壓感應器異常
H 67	nanoe 異常
H 70	光線感應器異常
H 71	控制板內的直流製冷風扇異常
H 72	蓄水器溫度感應器異常
H 85	室內機和無線局域網模組的異常通訊
H 97	室外風扇馬達機制鎖定
H 98	室內高壓保護
H 99	室內操作機防凍保護
F 11	四路閥門開關異常
F 16	總運行電流保護
F 17	室內預備機凍結異常
F 18	小功率電路阻塞異常
F 87	控制箱過熱保護
F 90	功率因數校正(PFC)電路保護
F 91	製冷循環異常
F 93	室外壓縮機異常變革
F 94	壓縮機排氣壓力過衝保護
F 95	室外製冷高壓保護
F 96	功率晶體模塊過熱保護
F 97	壓縮機過熱保護
F 98	總運行電流保護
F 99	室外直流(DC)高峰偵測

* 某些錯誤代碼不適用於您的型號。請諮詢授權經銷商以了解狀況。

信息

關於用戶回收與丟棄舊設備及電池的信息

[非歐共體國家的處理信息]
這些符號僅有效於歐洲共同體。如果您要丟棄這些物件，請諮詢您的當地政府或經銷商並詢問正確的丟棄方式。



Pb

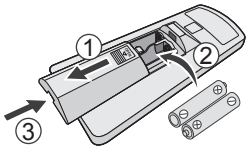
電池符號的注意事項（底部兩個符號舉例）：
此符號可與化學符號綜合使用。在此情況下，它須符合制定給該化學的使用條件。

Provides maximum comfort and clean air with optimal energy saving methods.

Use remote control within 8 m from the remote control receiver of the indoor unit.

Quick Guide

Inserting the batteries



① **Pull out the back cover of remote control.**

② **Insert AAA or R03 batteries.**

③ **Close the cover.**

A Clock setting

① **Press CLOCK and set the time ∧ ∨.**

② **Confirm SET.**

Thank you for purchasing
Panasonic Air Conditioner.

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How to use.....**19-20**

To learn more..... **21**

Maintenance and
inspection **22-23**

Troubleshooting..... **24-26**

Information..... **27**

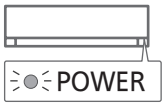
Accessories

- Remote control
- AAA or R03 batteries × 2
- Remote control holder
- Screws for remote control holder × 2

The illustrations in this manual are for explanation purposes only and may differ from the actual unit. They are subject to change without notice for future improvement.

B Basic operation

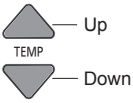
① **Press OFF/ON to start/ stop the operation.**



- Please note that the **OFF** indication is on display to start the unit.

② **Press MODE to select the desired mode.**

③ **Select the desired temperature.**



Selection range:
16.0 °C ~ 30.0 °C /

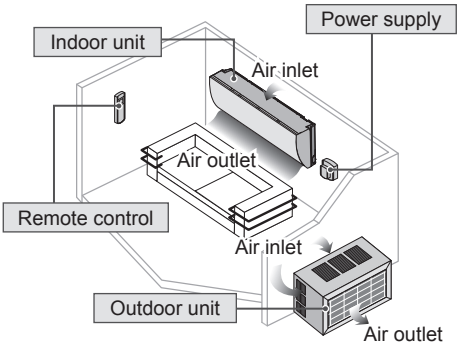
Safety precautions

To prevent personal injury, injury to others or property damage, please comply with the following:
Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:
This appliances is not intended for accessibility by the general public.

WARNING	This sign warns of death or serious injury.
CAUTION	This sign warns of injury or damage to property.

The instructions to be followed are classified by the following symbols:

	This symbol denotes an action that is PROHIBITED.
	These symbols denote actions COMPULSORY.



WARNING

Indoor unit and outdoor unit

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Please consult an authorised dealer or specialist to clean the internal parts, repair, install, remove, disassemble and reinstall the unit. Improper installation and handling will cause leakage, electric shock or fire.

Confirm with authorised dealer or specialist on usage of any specified refrigerant type. Using refrigerant type other than the specified may cause product damage, burst and injury etc.

Do not use means to accelerate the defrosting process or to clean, other than those recommended by manufacturer.
Any unfit method or using incompatible material may cause product damage, burst and serious injury.

Do not install the unit in a potentially explosive or flammable atmosphere.
Failure to do so could result in fire.

Do not insert your fingers or other objects into the air conditioner indoor or outdoor unit, rotating parts may cause injury.

Do not touch the outdoor unit during lightning, it may cause electric shock.

Do not expose yourself directly to cold air for a long period to avoid excess cooling.

Do not sit or step on the unit, you may fall down accidentally.

Remote control

Do not allow infants and small children to play with the remote control to prevent them from accidentally swallowing the batteries.

Power supply

Do not use a modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire.

To prevent overheating, fire or electric shock:
- Do not share the same power outlet with other equipment.
- Do not operate with wet hands.
- Do not over bend the power supply cord.
- Do not operate or stop the unit by inserting or pulling out the power plug.

If the supply cord is damaged, it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.

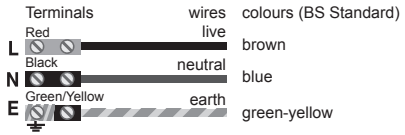
It is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electric shock or fire.

To prevent overheating, fire or electric shock:
- Insert the power plug properly.
- Dust on the power plug should be periodically wiped with a dry cloth.

Stop using the product if any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker.
(Risk of smoke/fire/electric shock)
Examples of abnormality/failure
- The ELCB trips frequently.
- Burning smell is observed.
- Abnormal noise or vibration of the unit is observed.
- Water leaks from the indoor unit.
- Power cord or plug becomes abnormally hot.
- Fan speed cannot be controlled.
- The unit stops running immediately even if it is switched on for operation.
- The fan does not stop even if the operation is stopped.

Contact your local dealer immediately for maintenance/repair.

Replacement or installation of power plugs shall be performed by authorised/qualified personnel only. The wires in this mains lead are coloured in accordance with the following code:



Wiring colour may vary depending on a country wiring code's standard.

This equipment must be earthed to prevent electrical shock or fire.

Prevent electric shock by switching off the power supply and unplug:
- Before cleaning or servicing,
- When extended non-use, or
- During abnormally strong lightning activity.

CAUTION

Indoor unit and outdoor unit

Do not wash the indoor unit with water, benzine, thinner or scouring powder to avoid damage or corrosion at the unit.

Do not use for preservation of precise equipment, food, animals, plants, artwork or other objects. This may cause quality deterioration, etc.

Do not use any combustible equipment in front of the airflow outlet to avoid fire propagation.

Do not expose plants or pet directly to airflow to avoid injury, etc.

Do not touch the sharp aluminium fin, sharp parts may cause injury.

Do not switch ON the indoor unit when waxing the floor. After waxing, aerate the room properly before operating the unit.

Do not install the unit in oily and smoky areas to prevent damage to the unit.

Do not dismantle the unit for cleaning purpose to avoid injury.

Do not step onto an unstable bench when cleaning the unit to avoid injury.

Do not place a vase or water container on the unit. Water may enter the unit and degrade the insulation. This may cause an electric shock.

Do not open window or door for long time during operation, it may lead to inefficient power usage and uncomfortable temperature changes.

Prevent water leakage by ensuring drainage pipe is:
- Connected properly,
- Kept clear of gutters and containers, or
- Not immersed in water

After a long period of use or use with any combustible equipment, aerate the room regularly.

After a long period of use, make sure the installation bolts and nuts does not deteriorate to prevent the unit from falling down.

Remote control

Do not use rechargeable (Ni-Cd) batteries. It may damage the remote control.

To prevent malfunction or damage of the remote control:
- Remove the batteries if the unit is not going to be used for a long period of time.
- New batteries of the same type must be inserted following the polarity stated.

Power supply

Do not disconnect the plug by pulling the cord to prevent electric shock.

nanoe™-G generator

Do not touch the sharp pin which may cause injury.

How to use

Not used in normal operations.

Press to restore the remote control to default setting.

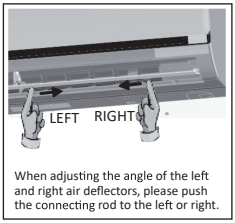
To adjust airflow direction

Upper direction:

- Do not adjust the flap by hand.

Lateral direction:

- For lateral direction, it is manually adjustable as shown.



To adjust FAN SPEED and QUIET condition

FAN SPEED:

- For AUTO, the indoor fan speed is automatically adjusted according to the operation mode.

QUIET:

- This operation reduces airflow noise.

When using POWERFUL

POWERFUL:
To reach set temperature quickly

- This function needs to be manually turned on or off.

To enjoy freshness and cleaner environment

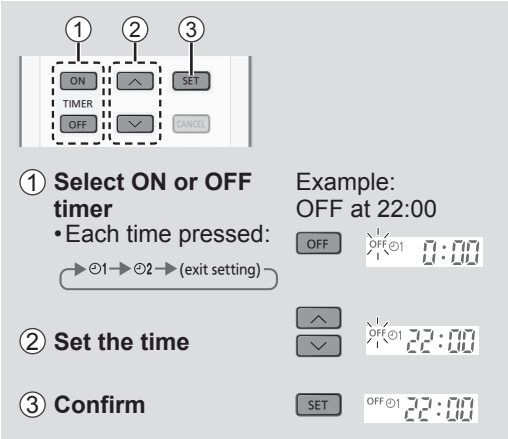
- This is a combination operation together with nanoe™X and nanoe™-G (nanoe™ TECHNOLOGY).
- nanoe™ TECHNOLOGY starts automatically when the unit is turned on with OFF/ON.
- This operation can be turned ON or OFF manually by pressing .
- This operation can be activated even when the unit is turned off. In this condition, the flap and fan speed will operate based on remote control setting.
- If power failure occurs during this operation, this operation will be resumes immediately after power resumes.

To maximize comfort while sleeping

- Press Sleeping mode button(Air-con panel sleeping light will be on). The unit starts sleeping mode.
- Press again to cancel sleeping mode.
- After sleeping mode is on, only the sleeping light on indicates the function is activated.
- During the sleeping mode, in order to prevent over-cooling and over-heating, the temperature, air volume and wind direction are not related to remote control setting, it will be automatically adjusted, users can reset the temperature and air volume if it didn't meet their demand.

To set the timer

2 sets of ON and OFF timers are available to turn ON or OFF the unit at different preset time.



- To cancel ON or OFF timer, press ON or OFF to select respective ⏲1 or ⏲2 then press CANCEL.
- If timer is cancelled manually or due to power failure, you can restore the timer again by pressing ON or OFF to select respective ⏲1 or ⏲2 then press SET.
- The nearest timer setting will be displayed and will activate in sequence.
- Timer operation is based on the clock set in the remote control and repeats daily once set. For clock setting, please refer to Quick Guide.

Note

POWERFUL , , SLEEP	FAN SPEED/ QUIET , POWERFUL
• Can be selected at the same time. • Can be activated in all modes. • Can be cancelled by pressing the respective button again.	• POWERFUL, QUIET and FAN SPEED cannot be selected at the same time.

To learn more...

Operation mode

AUTO : During operation, the POWER indicator will blinks at initial.
Unit selects operation mode every 10 minutes according to the setting and room temperature.

COOL : Provides efficient comfort cooling to suit your needs.

DRY : Unit operates at low fan speed to give a gentle cooling operation.

Energy saving temperature setting

Operating the unit within the recommended temperature range may save energy.

COOL : 26.0 °C ~ 28.0 °C / 79 °F ~ 82 °F.

Air flow direction

In COOL/DRY mode:
If AUTO is set, the flaps swings up/down automatically.

Auto restart control

If power is resumed after a power failure, the operation will restart automatically after a period of time with previous operation mode and airflow direction.
• This control is not applicable when TIMER is set.

nanoe™X deactivation

Normal operation

❶ Press OFF/ON button, nanoeX will follow previous setting operation (initially it's ON)

❷ Press button again will stop nanoeX function. The nanoeX indicator light is off.

❶ Start nanoeX function alone (in stand-by state)

Press button in stand-by state can start nanoeX function alone. At this time, the unit is in FAN mode.

❷ Press AIR SWING button to adjust fan direction in this condition.

Then press OFF/ON button to stop nanoeX function.

Note 1: nanoe-G will start synchronously when starting nanoeX function.

Operating conditions

Use this air conditioner in the temperature range indicated in the table.

Temperature °C (°F)		Indoor		Outdoor	
		DBT	WBT	DBT	WBT
COOL	Max.	32 (89.6)	23 (73.4)	43 (109.4)	26 (78.8)
	Min.	16 (60.8)	11 (51.8)	16 (60.8)	11 (51.8)

DBT: Dry bulb temperature, WBT: Wet bulb temperature

Caution

■ **Please stop operation and turn off the NFB before cleaning the unit.**

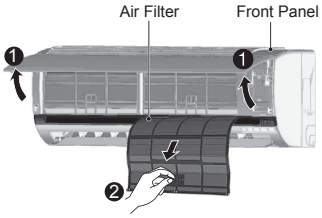
Please do not wash the unit with water directly.

Method of Removing the Air Filter and Panel

■ Procedure of removing the air filter

❶ Open the front panel to horizontal position. (Please do not pull too hard, or might break the front panel)

❷ Remove the air filter.



■ Procedure of removing the front panel

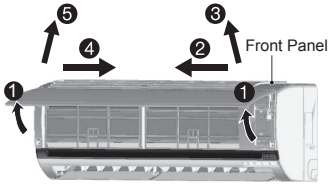
❶ Open the front panel to horizontal position. (Please do not pull too hard, or might break the front panel)

❷ Lift the front panel to the left.

❸ Raise the right side of the front panel and draw it out.

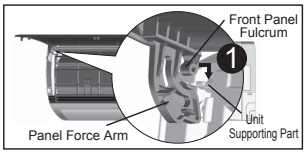
❹ Lift the front panel to the right.

❺ Raise the left side of the front panel. Afterwards, it can be removed.

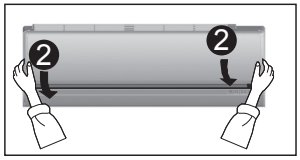


■ Procedure of the front panel re-insertion

❶ Make the front panel to horizontal position. Make the panel force arm inside and slot the front panel fulcrum and unit supporting part together.



❷ Push the front panel downwards and close it. (Gently push left, right and bottom center)

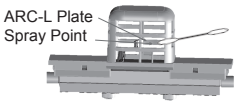


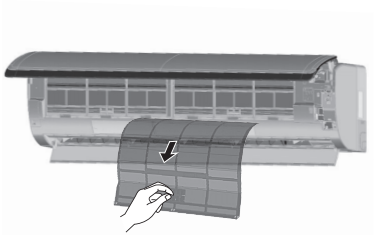
Maintenance of the Unit and Remote Controller

- Please wipe with soft cloth
- Avoid using items as listed below.
  Do not use hot water (above 40°C), volatile solvent such as diluting agent and putty-powder. (Please follow the caution items while using chemical cloths.)
- Do not wash the front panel with water directly.

Cleaning of Air Filter and Nanoe-G

- When the unit display panel "Air filter cleaning" indicator flash or is on.
- Vacuum dust from the air filter. For special stain, gently wash it (prevent filter breakage) with neutral detergent and let it dry in the shade. Please avoid direct sunlight.
- Do not wash the air filter with chemical agent or hot water.
- While cleaning the filter, also clean nanoe-G generator after cutting off air-con power. Please clean the spray point and arc-L plate with dry cotton swab. Put the swab from the center right hole in the front into the nanoe-G generator, slightly wipe the spray point up and down. After cleaning the spray point, put the swab from the top right hole in the front and wipe the arc-L plate left and right.





■ When the air filter is broken (please replace it immediately.) or need replacement, please contact our dealers or services sites.

Cleaning instructions

Caution

■ **Please turn off the NFB for long off period.**

Checking before operational season

■Is there cold air?

Operate the air-con for 15 min. It's normal if the temperature difference of indoor unit outlet and intake vent is more than 8°C of cold air.

■Is there blocking in front of outlet and intake vent?

■Is the remote controller battery replaced?

Please replace the battery as soon as possible when the display part of remote controller is blurred.

Long Off Period

1. Activate nanoe mode for 2~3 hours to remove moisture left in the internal parts thoroughly to prevent mould growth.
2. Stop air-con operation and turn off the NFB.
3. Take out the battery from the remote controller.

Notice of Checking Equipment

- There will be dust inside the unit after annual usage and will reduce performance.
- It may stink depends on usage conditions, or poor drainage caused by trash or dust accumulation.

Besides general maintenance, we suggest you check the equipment regularly.
For details such as expenses, please directly contact affiliated services sites or dealers.

Troubleshooting

The following symptoms do not indicate malfunction.

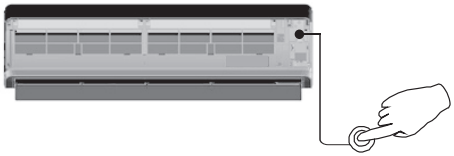
Symptom	Cause
POWER indicator blinks before the unit is switched on.	• This is a preliminary step in preparation for the operation when the ON timer has been set. • When ON Timer is set, the unit may start earlier (up to 30 minutes) before the actual set time in order to achieve the desired temperature on time.
TIMER indicator is always on.	• The timer setting repeats daily once set.
Operation is delayed a few minutes after restarting.	• The delay is a protection to the unit's compressor.
Indoor fan stops occasionally during automatic fan speed setting.	• This helps to remove the surrounding odour.
The room has a peculiar odour.	• This may be due to damp smell emitted by the wall, carpet, furniture or clothing.
Cracking sound during operation.	• Changes of temperature caused the expansion/ contraction of the unit.
Water flowing sound during operation.	• Refrigerant flow inside the unit.
Mist emerges from indoor unit.	• Condensation effect due to cooling process.
Outdoor unit emits water/steam.	• Condensation or evaporation occurs on pipes.
Discoloration of some plastic parts.	• Discoloration is subject to material types used in plastic parts, accelerated when exposed to heat, sun light, UV light or environmental factor.
Dust may have collected around the front panel, grilles and wall surrounding the unit after extended use.	• The dust accumulation is due to air purification effect of negative ions from nanoe™-G. Remove the dust regularly with a clean dampened cloth.
Soft buzzing sound from indoor unit during nanoe™ TECHNOLOGY operation.	• It is normal when nanoe™X generator is working. If you have concern about the sound, cancel the nanoe™ TECHNOLOGY operation.

Check the following before calling for servicing.

Symptom	Check
Operation in COOL mode is not working efficiently.	• Set the temperature correctly. • Close all doors and windows. • Clean or replace the filters. • Clear any obstruction at the air inlet and air outlet vents.
Noisy during operation.	• Check if the unit has been installed at an incline. • Close the front panel properly.
Remote control does not work. (Display is dim or transmission signal is weak.)	• Insert the batteries correctly. • Replace weak batteries.
The unit does not work.	• Check if the circuit breaker is tripped. • Check if timers have been set.
The unit does not receive the signal from the remote control.	• Make sure the receiver is not obstructed. • Certain fluorescent lights may interfere with signal transmitter. Please consult authorised dealer.
nanoe™ TECHNOLOGY indicator at the indoor unit blinks or not lit when nanoe™ TECHNOLOGY is activated.	• Use the remote control to retrieve error code and consult authorised dealer.

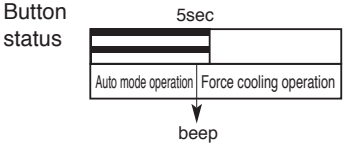
When the remote controller is unavailable

Press “Stop/Start” button to operate the unit when the battery is running down or the remote controller is missing. It’s AUTO mode operation at this time.



■ Operation procedure

- Press “Stop/Start” button to operate the unit.
- Press again “Stop/Start” button to stop the unit.
- Control method of “Stop/Start” button



: press and hold the button : release the button

■The indicators are too bright

- To dim or restore the unit’s indicator brightness, press ⌃ and hold for 5 seconds.

■Conducting a seasonal inspection after extended non-use

- Check the remote control batteries.
- Check that there is no obstruction around the air inlet and outlet vents.
- Use Auto OFF/ON button to select COOL operation. After 15 minutes of operation, it is normal to have the following temperature difference between the air inlet and outlet vents:
  COOL: ≥ 8 °C / 14.4 °F

NON SERVICEABLE CRITERIAS

TURN OFF THE POWER SUPPLY AND UNPLUG then please consult an authorised dealer when in following conditions:

- Abnormal noise during operation.
- Water/foreign particles have entered the remote control.
- Water leaks from Indoor unit.
- Circuit breaker switches off frequently.
- Power cord becomes unnaturally warm.
- Switches or buttons are not functioning properly.

Troubleshooting

How to retrieve error codes

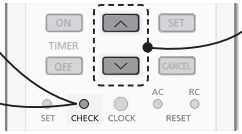
If the unit stops and the TIMER indicator blinks, use the remote control to retrieve the error code.

① Press for 5 seconds

② Press until you hear beep sound, then write down the error code

③ Press for 5 seconds to quit checking

④ Turn the unit off and reveal the error code to authorised dealer



• For certain errors, you may restart the unit for limited operation if there are 4 beeps when operation starts.

Diagnostic display	Abnormality/Protection control
H 00	No memory of failure
H 11	Indoor/outdoor abnormal communication
H 12	Indoor unit capacity unmatched
H 14	Indoor intake air temperature sensor abnormality
H 15	Outdoor compressor temperature sensor abnormality
H 16	Outdoor current transformer (CT) abnormality
H 17	Outdoor suction temperature sensor abnormality
H 19	Indoor fan motor mechanism lock
H 21	Indoor float switch operation abnormality
H 23	Indoor heat exchanger temperature sensor 1 abnormality
H 24	Indoor heat exchanger temperature sensor 2 abnormality
H 25	Indoor ion device abnormality
H 26	Minus ION abnormality
H 27	Outdoor air temperature sensor abnormality
H 28	Outdoor heat exchanger temperature sensor 1 abnormality
H 30	Outdoor discharge pipe temperature sensor abnormality
H 31	Abnormal swimming pool sensor
H 32	Outdoor heat exchanger temperature sensor 2 abnormality
H 33	Indoor/outdoor misconnection abnormality
H 34	Outdoor heat sink temperature sensor abnormality
H 35	Indoor/outdoor water adverse current abnormality
H 36	Outdoor gas pipe temperature sensor abnormality
H 37	Outdoor liquid pipe temperature sensor abnormality
H 38	Indoor/outdoor mismatch (brand code)
H 39	Abnormal indoor operating unit or standby units

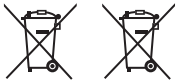
Diagnostic display	Abnormality/Protection control
H 41	Abnormal wiring or piping connection
H 50	Ventilation fan motor locked
H 51	Ventilation fan motor locked
H 52	Left-right limit switch fixing abnormality
H 58	Indoor gas sensor abnormality
H 59	Eco sensor abnormality
H 64	Outdoor high pressure sensor abnormality
H 67	nanoe abnormality
H 70	Light sensor abnormality
H 71	DC cooling fan inside control board abnormality
H 72	Abnormality tank temperature sensor
H 85	Abnormal communication between indoor & wireless LAN module
H 97	Outdoor fan motor mechanism lock
H 98	Indoor high pressure protection
H 99	Indoor operating unit freeze protection
F 11	4-way valve switching abnormality
F 16	Total running current protection
F 17	Indoor standby units freezing abnormality
F 18	Dry circuit blocked abnormality
F 87	Control box overheat protection
F 90	Power factor correction (PFC) circuit protection
F 91	Refrigeration cycle abnormality
F 93	Outdoor compressor abnormal revolution
F 94	Compressor discharge pressure overshoot protection
F 95	Outdoor cooling high pressure protection
F 96	Power transistor module overheating protection
F 97	Compressor overheating protection
F 98	Total running current protection
F 99	Outdoor direct current (DC) peak detection

* Some error code may not be applicable to your model. Consult authorised dealer for clarification.

Information

Information for Users on Collection and Disposal of Old Equipment and used Batteries

[Information on Disposal in other Countries outside the European Union]
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Pb

Note for the battery symbol (bottom two symbol examples):
This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Panasonic Corporation
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