



使用說明書 Operating Instructions

加濕空氣清新機
Humidifying Air Purifier

型號
Model No. **RVL40H**

本產品為室內專用

This product is for indoor use only.



中文..... 3

English.....23

感謝閣下選購KDK產品。

●使用產品前請仔細閱讀本使用說明書，並請妥善保管。

Thank you very much for purchasing this KDK product.

●Before operating this product, please read the instructions carefully, and save this manual for future use.

- 如果電源線已損壞，必須找製造商、服務代理商或有資格人士更換，以免發生危險。
- 此產品不適合身體、感官或精神功能遲緩，或缺乏經驗與知識的人(包括兒童)使用，除非他們在負責其安全的人的監督或指引下使用。
- 請看管好兒童，確保他們不會以本產品玩耍。
- 維護保養前或加水時，請務必拔下電源插頭。

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



使用說明書

加濕空氣清新機

型號 **RVL40H**



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確認與準備

使用方法

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另附保證書

感謝閣下選購KDK產品。

- 請仔細閱讀本使用說明書，做到正確安全使用。
- 使用前，請務必先閱讀「安全注意事項」（第6-7頁）。
- 請確認保證書中已填寫“購買日期，經銷商名稱”等信息後，將其與使用說明書一同進行妥善保管。

「室內揚塵捕捉器」與加濕功能給您帶來潔淨濕潤的空氣。

■ 配備 PM2.5 淨化功能

可清除 99 % 的直徑為 0.1 至 2.5 微米的懸浮粒子^{*1}

因換氣等從室外進入的新懸浮粒子未考慮在內。

^{*1} 實驗方法: 日本電機工業協會 推薦性標準 (HD-128)

判定標準: 在 32 立方米的密閉空間內, 清除 99 % 的直徑為 0.1 至 2.5 微米的懸浮粒子需時間為 90 分鐘之內。(這是換算成 32 立方米的實驗空間後得出的數值。)

- PM 2.5 是直徑小於或等於 2.5 微米的懸浮粒子的總稱。
- 本空氣清新機未針對直徑小於 0.1 微米的懸浮粒子進行淨化效果的確認。此外, 本產品不能去除空氣中所有的有害物質。
- 這是在 32 立方米密閉空間內的淨化效果, 而非在實際使用空間內的淨化結果。

■ 配備集脫臭過濾網和集塵過濾網於一體的 2 合 1 HEPA 多功能及脫臭過濾網。

■ 「室內揚塵捕捉器」可強力吸除靠近地面的空氣污染物。

■ 配備 nanoe™ 技術。

■ 通過 Eco mode 智慧節能 模式可省電運行。

實驗方法: 即在 23 立方米的實驗室內吸 5 支煙後, 運行「空氣淨化」模式 24 小時。

對測試結果進行比較後發現:

自動[Auto]模式下耗電量約為 138 Wh。

[Eco mode 智慧節能]模式運行時耗電量約為 67 Wh。

測試值根據設置環境和使用狀況的不同而有所差異。

■ 運行衣物脫臭「Clothes Refresh」功能, 可去除不便洗滌的衣類上的異味。^{*2}

脫臭效果根據周圍環境 (溫度/濕度)、運行時間或異味/纖維的種類等的不同而有所差異。

^{*2} 實驗機構: (株)環境管理中心

實驗方法: 在 23 立方米的實驗室內, 在距離出風口 40 厘米處以 6 級臭氣強度測量方法進行驗證。

脫臭方法: 運行衣物脫臭「Clothes Refresh」功能, 釋放 nanoe™

實驗對象: 附在實驗布上的煙味、烤肉味

實驗結果: <煙味> 經過 60 分鐘之後, 臭氣強度下降至 2 等級。[H137229001000DA]

<醋味> 經過 60 分鐘之後, 臭氣強度下降至 1 等級。[H137229001001DA]

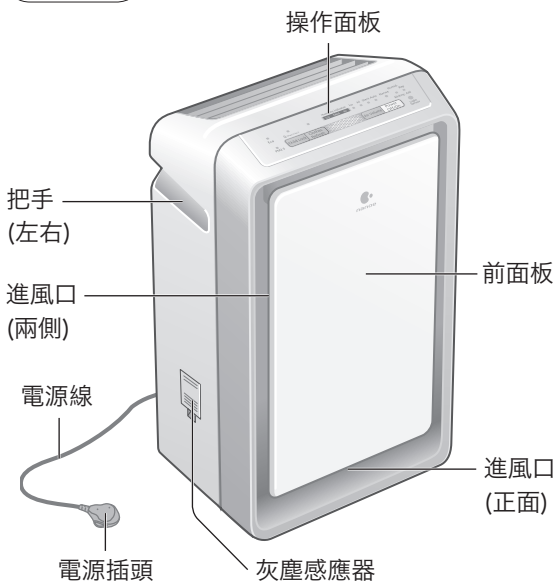
<烤肉味> 經過 60 分鐘之後, 臭氣強度下降至 1 等級。[H137229001002DA]

■ 關於睡眠自動運行模式

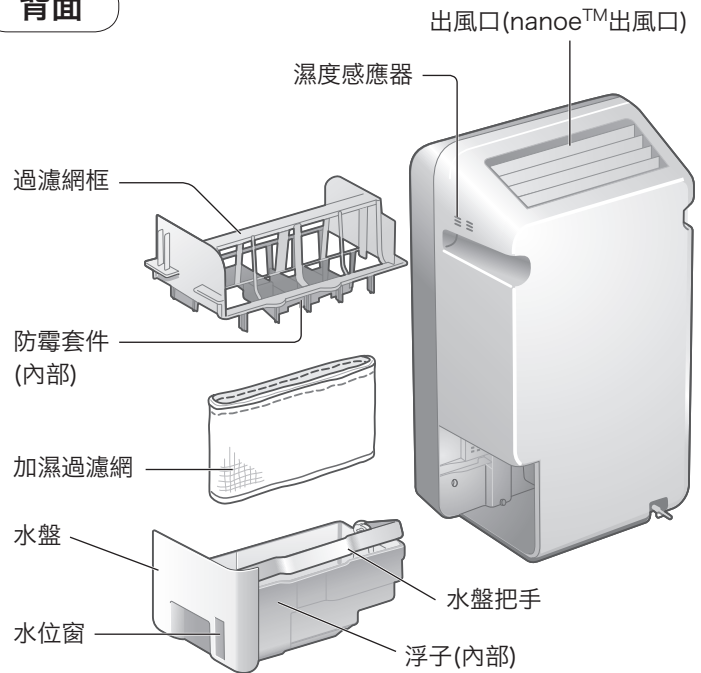
通過亮度感應器檢測室內亮度, 自動調節操作面板上的指示燈的亮度並自動切換風量。(第 17 頁)

各部件名稱

正面



背面



使用要求

■切勿放置於以下場所：

- 陽光直射和正對空調出風口/熱氣的位置。
(否則，可能造成變形、變質、變色或發生故障。)
- 窗邊等可能擋住濕度感應器一帶的位置。
(有可能會導致濕度感應器工作不正常。)
- 出風口對向傢俱或牆壁。
(可能產生污漬。)
- 電視機及收音機等物體附近。
(有可能會導致影像的紊亂以及雜音。)
→ 距離1米以上放置。盡量不要與以上這些設備使用同一個插座，電源插頭插入時有可能會產生影像紊亂以及雜音。產生此類情況時，請將電源插頭插到其他插座上。

■主機上請勿放置物體。(否則有可能導致操作錯誤或故障。)

- 不要放置磁鐵和金屬物品。(否則設備傾倒時，在內置磁鐵的作用下，檢查指示燈亮起，有可能導致無法操作。)

■如產品發生結冰時，請倒掉水盤中的水。(在結冰狀態下運轉，有可能會發生故障。)

■在同一場所長時間使用時，主機周圍的牆壁或地板可能會髒污。進行主機維護保養時，建議改變設置場所。

在這些場所使用非常有效！

■將本產品放置於地面，以針對室內的花粉揚塵。

由於花粉、灰塵等容易落到地板附近，因此建議將本產品放在房間中平坦的地面上。

■如果是為了使房間裏的空氣有效循環。

為了不堵塞進風口和出風口，請將本產品放置在其左右與上方距離牆壁、傢俱、窗簾等約30厘米以上的地方。為了更有效地使用本產品，請保持產品背部距離牆壁至少1厘米。

安全注意事項

請務必遵守這些指示

以下所提供的安全注意事項是出於保護閣下的目的。為了避免對您、產品或其他人造成可能的傷害或財物損害，請仔細閱讀並遵守以下安全注意事項。

■ 以下標誌是根據錯誤使用所產生的危險或受傷程度進行分類。



警告

本標誌所表示內容為「不遵守該指示，可能造成人員重傷或死亡」。



注意

本標誌所表示內容為「不遵守該指示，可能造成人身傷害、產品或其他物品損害」。

■ 以下標誌為需要遵守的指示種類。(下列標誌為例子。)



此標誌表示為禁止事項。



此標誌表示為強制事項。



警告

為了防止火災及觸電等事故



■ 出現異常現象或故障時，應立即停止使用，並拔下電源插頭。

(可能會導致觸電、冒火花或冒煙。)

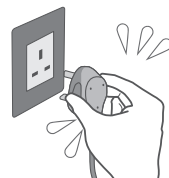
<異常・故障的例子>

- 漏水。
 - 觸動電源線後，停止運行。
 - 運行時伴有異常噪音或振動。
 - 主機異常發燙或散發出焦味。
- 立即停止運行，拔下電源插頭，並聯繫經銷商(見保修單)進行檢查或維修。



■ 切勿用濕手接觸電源插頭。

(否則可能會導致觸電。)



■ 請將插頭完全插入電源插座。

(如果插頭沒有完全插牢，可能會因為過熱導致觸電，甚至引起火災事故。)

- 切勿使用已損壞的插頭或鬆動的電源插座。

■ 請您定期清潔電源插頭。

(如果電源插頭上有灰塵，濕氣可能會破壞插頭的絕緣部分，從而導致火災事故。)

- 拔下電源插頭，用乾布擦淨。
- 電器如長期不使用，應拔下電源插頭。



■ 移動或存放時，切勿拉扯電源線。

(可能導致電源線短路等，引發觸電或火災事故。)



■ 切勿擅自拆開或改裝本加濕空氣清新機。

(拆開或改裝本產品可能導致工作異常而造成起火、觸電或火災。)

請聯繫經銷商(見保修單)進行維修。



■ 禁止將手指或金屬物放入進風口、出風口等縫隙處。

(可能會發生傷害和觸電事故。)



■ 切勿使用超出額定值的電源、萬能插座或連接設備，只可使用額定的交流電源。

(使用超出額定值的萬能插座或連接設備，可能會導致電源線過熱，引起火災事故。)



■ 切勿弄濕機身。

(否則可能會導致短路等而發生火災和觸電事故。)

■ 切勿損壞電源線或電源插頭。

切勿割劃、改裝、靠近熱源、過度扭曲、擰絞、壓放重物、擠壓電源線等。

(可能會導致短路，引發觸電或火災事故。)

請聯繫經銷商(見保修單)對電源線或插頭進行檢查或維修。



■ 清潔本產品時，請先拔出電源插座。

(否則產品可能會無故突然啟動，從而導致受傷或觸電。)



注意



■ 切勿放置於此類場所：

- 不穩定的場所或高處。
(否則產品可能會掉落、翻倒，從而導致受傷、沾濕傢俱、造成漏電、觸電或火災事故。)
- 浴室等高溫、高濕，或易受潮的場所。
(否則可能導致漏電而引發觸電或火災事故。)
- 廚房等排放油煙的場所。
(否則可能導致本產品出現裂紋而造成人身傷害。)
- 使用油或者可燃性氣體，並可能出現洩漏的場所。
(否則可能因起火及機器吸入而導致起火或冒煙。)
- 風口對向動植物的場所。
(否則會導致動物不適和植物風乾。)



■ 移動本產品時應關閉本產品並倒掉積水。

■ 請勿握住過濾網框移動水盤。

(水灑落有可能沾濕傢俱和導致受傷。)

■ 移動產品前，握住左右把手。

- 請勿握住前面板搬運本產品。
(否則可能滑落導致人身傷害。)



■ 請手持插頭部位拔下電源插頭。

(否則可能導致電源線破損，短路等而引發觸電，火災事故。)



■ 與取暖爐 (加熱器) 一起使用時，需保持空氣流通。

- (否則有可能導致一氧化碳中毒。)
- 本設備不能清除一氧化碳。



■ 請保持水盤中的水以及主機內部清潔。

當內部被污垢以及水銹污染後，

- 可能會漏水。
 - 因霉菌及其他雜菌繁殖而產生惡臭，而危害身體健康(雖然不常見)。
- 當身體感覺不適時，請立即諮詢醫生。
- 每天用新的自來水更換水盤中的水。
 - 要定期清潔保養主機內部。



■ 請勿使用穿孔或已破損的水盤。

(否則會因水溢出而弄濕傢俱。)

■ 請勿將化學藥品、芳香劑、精油等投入水盤內。

(否則水盤破損後可能導致傢俱受潮。)

■ 切勿使用酒精或稀釋劑等溶劑清潔本產品，同時也要避免接觸噴霧殺蟲劑。

(否則可能導致本產品出現裂紋而造成人身傷害，或因漏水導致傢俱受潮，因短路等引發觸電或火災事故。)

■ 請勿在有熏香型殺蟲藥的室內使用本產品。

(否則化學殘留物可能會在機內積聚，然後從出風口中釋放而危害身體健康。)

- 使用殺蟲藥後，應先讓房間徹底通風，然後才可使用本加濕空氣清新機。

■ 請勿坐靠本設備。

(否則有可能導致受傷。)

- 有小孩的家庭要多加注意。

■ 請勿推倒本設備。

(水灑落後可能會導致火災及觸電。)



■ 切勿讓揮發性物質或可燃物品，如香煙或香薰等飄入機內。

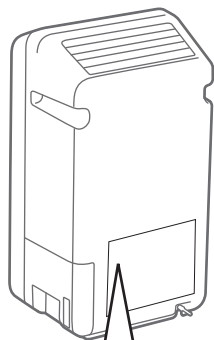
(否則可能會發生火災事故。)

準備

開機準備

安裝2合1 HEPA多功能及脫臭過濾網

1 在標籤上填寫開始使用日期。



Replacement 2 in 1 HEPA composite and deodorizing filter

Part No. ZVLS40H

Date installed:

Replacement humidifying filter

Part No. ZVLE40H

Date installed:

- 使用備用2合1 HEPA多功能及脫臭過濾網。或備用加濕過濾網(維修配件→第22頁)時，請在備用過濾網隨附的標籤上填寫開始使用日期，並將其貼在產品背面。

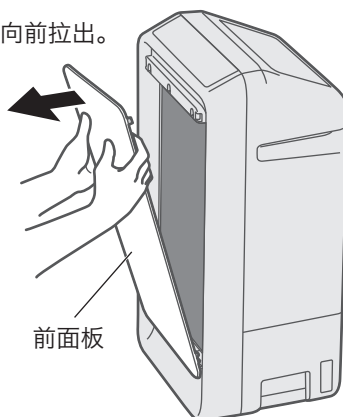
要求

- 安裝前請務必參照第5至7頁。

2 從塑膠袋中取出2合1 HEPA多功能及脫臭過濾網。

① 拆下前面板。

雙手向前拉出。



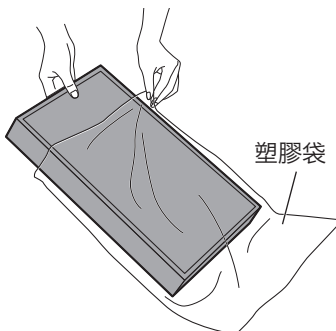
② 拆下2合1 HEPA多功能及脫臭過濾網。

向前拉出。



2合1 HEPA多功能及脫臭過濾網

③ 從塑膠袋中取出2合1 HEPA多功能及脫臭過濾網。



3 安裝2合1 HEPA多功能及脫臭過濾網和前面板。

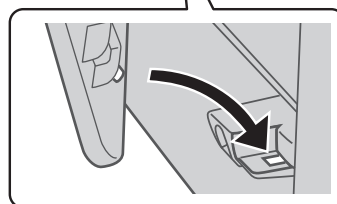
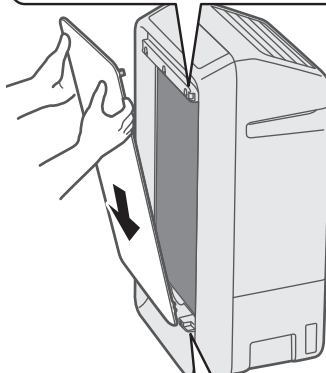
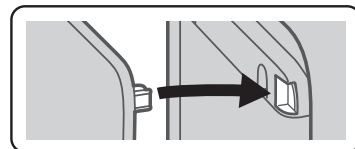
① 安裝2合1 HEPA多功能及脫臭過濾網。(請按正確的方向安裝。)

2合1 HEPA多功能及脫臭過濾網

將正面朝向自己(將貼有標籤[FRONT SIDE]的一面朝向右側)，之後將其安裝在產品的安裝槽內。



② 安裝前面板。



■ 使用前，請務必安裝前面板。

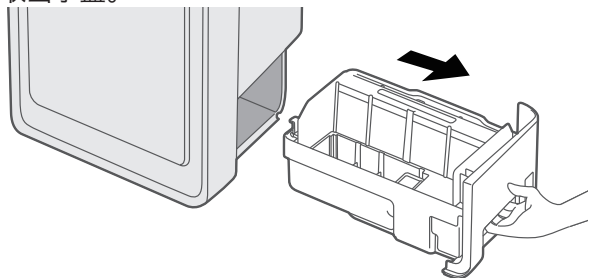
加水至水盤

4 取出水盤，加水後，將水盤安裝回去。

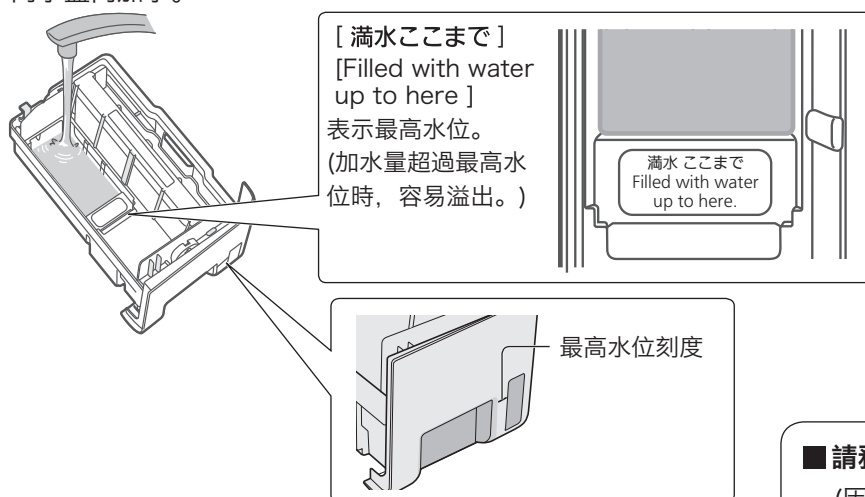
(產品在「空氣淨化」模式下運行時，則不需要執行此項操作。)

- 加水時，請務必拔下電源插頭。

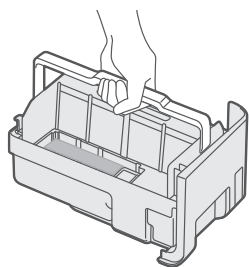
① 取出水盤。



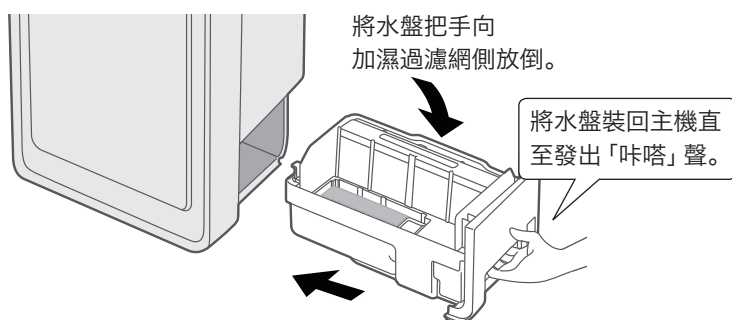
② 向水盤內加水。



③ 緊握水盤把手，平移水盤，避免傾斜。



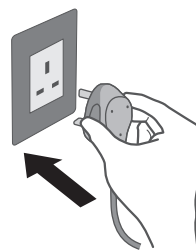
④ 慢慢將水盤裝回主機。



接通電源

5 插入電源插頭。

插入前，擦乾電源插頭以及手上沾有的水。



- 按下 **Power Off/On** 按鈕，空氣污染度指示燈(第10頁)呈現藍色或紅色，閃爍時間約為5秒。

■ 請務必使用自來水

(因為自來水一般都經過了氯化處理，雜菌難以繁殖。)

- 請切勿使用以下各種水：

- 40 °C以上的熱水，或者加入洗滌劑的水。(有可能導致變形或者發生故障。)
- 加入化學品、空氣清新劑或精油的水。(可能導致水盤破損導致使家具受潮受損：第7頁)
- 淨水器中的水或鹼離子水以及井水。(因為可能導致霉菌以及雜菌大量繁殖。)

要求

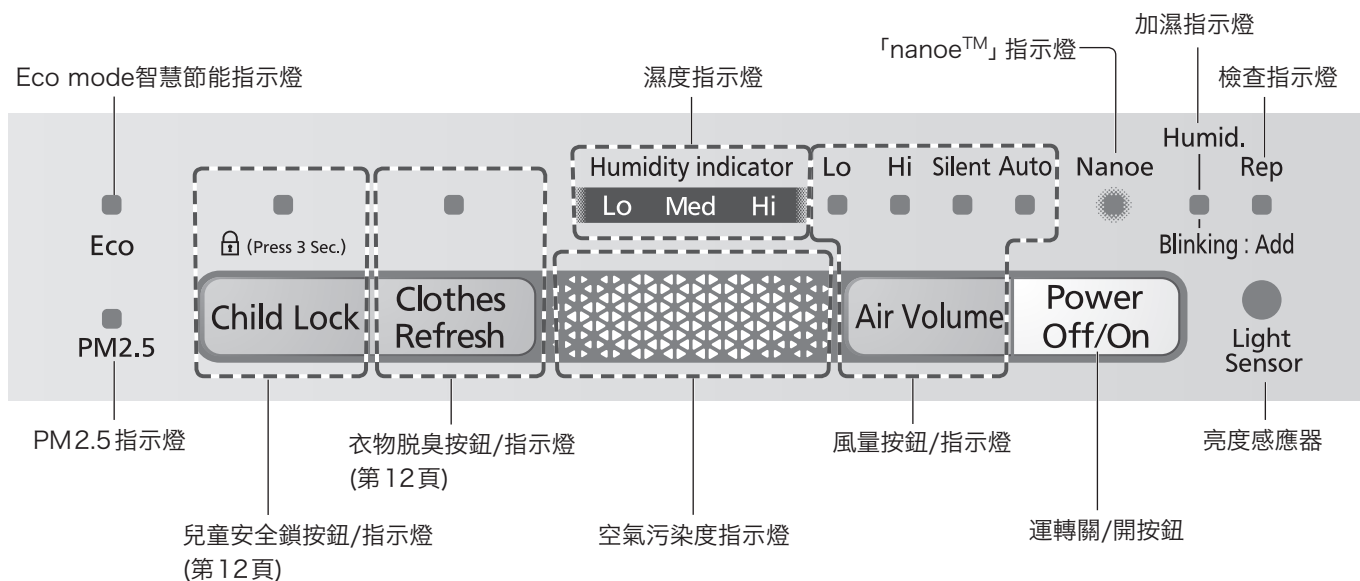
- 在不得已情況下使用井水(可飲用)時，請增加清潔水盤、加濕過濾網和過濾網框的次數。

■ 一盤水可持續運轉的時間

- 大約可運轉 4小時30分鐘。(急速[Hi]運轉 / 室內溫度為 20 °C，濕度為 30 %的條件下。)

使用方法

操作面板



■ Eco mode智慧節能指示燈

- 運行Eco mode智慧節能模式 (第17頁)時，指示燈亮。(運行自動[Auto]或靜音[Silent]模式時指示燈亮。)
- 可關閉Eco mode智慧節能模式。
 - 運行時，同時按住按 **Child Lock** 和 **Clothes Refresh** 按鈕3秒。(Eco mode智慧節能指示燈熄滅。)
 - 需再次運行Eco mode智慧節能時，再次按下約3秒鐘。(Eco mode智慧節能指示燈亮起)

■ PM2.5指示燈

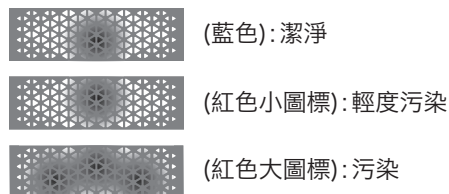
當產品檢測到PM2.5後，PM2.5指示燈亮起將閃爍，空氣污染度指示燈閃爍(紅色)，之後轉為常亮狀態。(PM2.5指示燈在產品檢測到直徑小於2.5微米的物質，比如煙霧及灰塵等的時候亮起。)

■ 濕度指示燈

- 用於提示濕度狀態。
 - [Lo](紅燈): 指示環境濕度較低 (約40 % 以下)
 - [Med](綠燈): 指示環境濕度合適 (約40 % ~ 60 %)
 - [Hi](紅燈): 指示環境濕度較高(約60 % 以上)

■ 空氣污染度指示燈

利用感應器探測空氣污染，通過空氣污染度指示燈進行提示。感應器靈敏度可變。(第18頁 Q8)



■ nanoe™指示燈

- 指示燈亮，提示正在產生nanoe™。
- 可關閉nanoe™功能。
 - 運行過程中，同時按住 **Child Lock** 和 **Air Volume** 按鈕約3秒鐘。(nanoe™指示燈熄滅)
 - 需再次產生nanoe™時，請再次按住約3秒鐘。(nanoe™指示燈亮起)

■ 檢查指示燈

指示燈亮，提示主機出現異常。
檢查指示燈亮時 → (第21頁)

■ 亮度感應器

通過亮度感應器檢測室內亮度，自動調節操作面板上的指示燈的亮度與風量。
就寢時，室內變暗後，則自動進入「睡眠自動運行」模式。(第17頁)
(設置「睡眠自動運行」模式後，將風量設置為急速[Hi]，低速[Lo]時，風量不變。)

1

開始運轉

Power
Off/On

- 運行「加濕空氣淨化」模式時，請向水盤內加水。
如果運行「空氣淨化」模式，則無需加水。

2

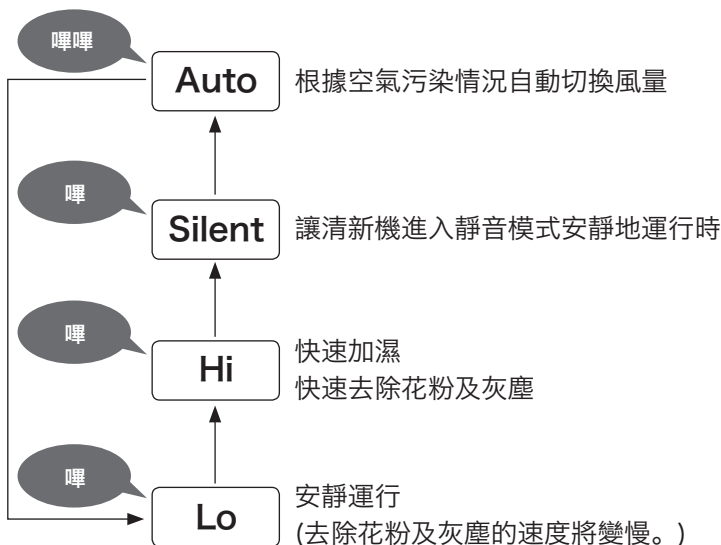
選擇風量

Air Volume

按此按鈕將進行
風量的切換。

Lo Hi Silent Auto

當前選定的風量設定指示
燈亮起。



3

停止運轉

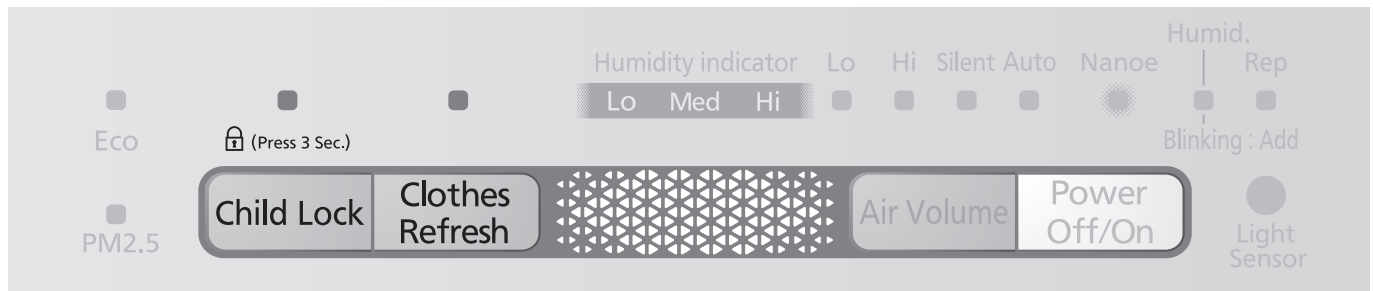
Power
Off/On

■ 加濕指示燈

- 運行「加濕空氣淨化」功能時，指示燈亮。
- 「加濕空氣淨化」運行過程中，如水盤內的水已用完，則清新機將發出「嗶-嗶-」提示音，且加濕指示燈閃爍。
(轉為「空氣淨化」模式。)

加濕指示燈閃爍時

- 清新機將每隔 10 分鐘發出一提示音，直至加水。
從第 2 次開始，可以關閉此提示音 (第 19 頁 Q9)
(「睡眠自動運行模式」(第 17 頁)運行狀態下，第 2 次之後不再發出提示音。)
- 超過 60 分鐘仍未向水盤加水時，將每隔 60 分鐘發出一提示音。
→ 向水盤內加水。(第 9 頁)
- 加濕指示燈閃爍時，如需運行「空氣淨化」功能，請按下 **Power Off/On** 按鈕，關閉指示燈。



衣物脫臭



(指示燈亮起)

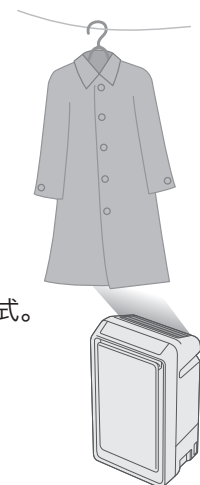
Clothes Refresh



去除衣類上的難聞氣味

- 運行約 1 小時後，將返回運行衣物脫臭「Clothes Refresh」功能之前的運行模式。

- 若要取消
再次按下 (指示燈熄滅)



提示

- 在衣物脫臭「Clothes Refresh」運行狀態下按下風量[Air Volume]按鈕，即可取消此模式。
- 不可關閉 nanoe™。
- 脫臭效果根據周圍環境(溫度、濕度)、運轉時間、異味、纖維種類的不同而有所差異。

要求

- 請調整主機位置，確保對向衣類吹風。

兒童安全鎖



Child Lock (Press 3 Sec.)

(指示燈亮起)

Child Lock



用於防止兒童的玩耍操作。

設置後，若按下 **Child Lock** 以外的按鈕，則會發出“嗶—嗶—”提示音，無法操作。

- 若要取消
再次長按約 3 秒鐘。(指示燈熄滅。)

維護保養

2合1 HEPA多功能及脫臭過濾網/主機/前面板/灰塵感應器

清潔前注意事項

■請務必拔下電源插頭。

- 除廚房使用的中性洗滌劑外，不得使用其他洗滌劑。
(可能造成塑膠零件變質、變型或破損。)
- 使用化學性抹布時，請按照其使用注意事項進行使用。



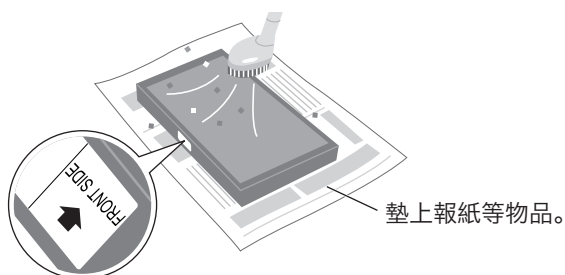
2合1 HEPA多功能及脫臭過濾網

<約2週1次>

用吸塵器等清除正面的灰塵。

(安裝方法以及拆卸方法 → 第8頁)

用吸塵器等清除過濾網區域積聚的灰塵。



- 過濾網容易劃傷，請勿用力按壓。
(背面易破損，請小心清潔。)
- 請勿水洗。

要求

- 請勿在已拆下2合1 HEPA多功能及脫臭過濾網的狀態下運行。
(無空氣淨化效果，而且被吸入的灰塵可能會導致設備故障。)
- 清潔時，請勿隨意擺放已拆下的配件。
(否則有可能被隨意擺放的配件絆倒或導致配件受損。)

更換2合1 HEPA多功能及脫臭過濾網的參考時間

(維修配件 第22頁)

更換期限	條件
大約5年1次*	每天吸入6支香煙排放量時。 (日本電機工業協會標準 JEM1467)

*根據使用場所和使用方法的不同，過濾網的更換期限可能會縮短。(例如吸煙人數較多的家庭。)
總之效果不好時(例如難以去除異味等)請及時更換。

- 更換之後，請在標籤上填寫過濾網開始使用日期，並將其黏貼在主機背面。
- 請將使用過的過濾網作為非可燃垃圾處理。

主機前面板

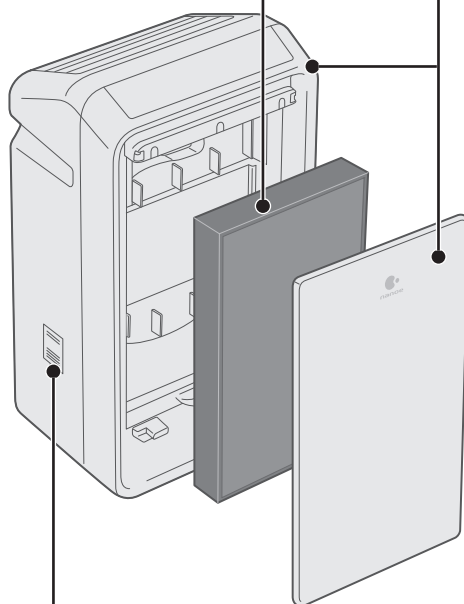
<約1個月1次>

使用擰乾的軟布擦拭。

(安裝方法以及拆卸方法 → 第8頁)

使用質地較硬的布擦拭，可能會造成表面損傷。

- 但是請注意使用乾布擦拭電源插頭。



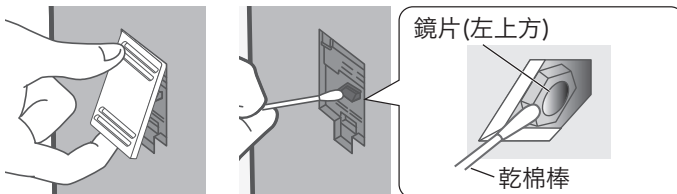
灰塵感應器

<約3個月1次>

用乾棉棒去除鏡片上的髒污。

- 定期擦拭鏡片。(帶有濕氣以及被香煙的煙油污染後，感應器有可能無法正常感應。)

① 拆下灰塵感應器外蓋。② 使用乾棉棒進行擦拭。



- 清潔感應器前，請務必在拔下電源插頭的狀態下進行操作。
- 請勿將乾棉棒插入到鏡片以外的其他部位。
- 難以看清時，請用燈光照射。

維護保養 (續) 水盤

清洗前注意事項

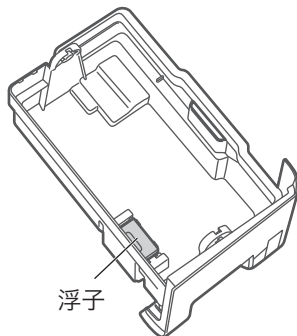
■ 請務必拔下電源插頭。

- 除廚房使用的中性洗滌劑外，不得使用其他洗滌劑。
(可能造成塑膠零件變質、變型或破損。)
- 只有加濕過濾網可使用氧類漂白劑。
- 使用化學性抹布時，請按照其使用注意事項進行使用。

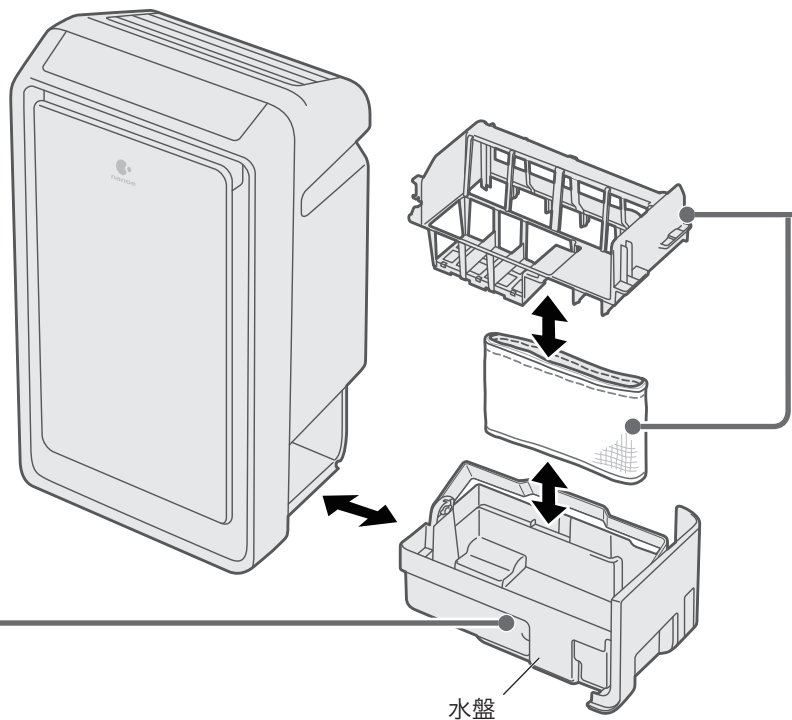


水盤 <約1個月1次*1>

進行水洗。



- 用棉棒以及牙刷去除細微處的髒污。
- 請勿移去浮子(發泡聚苯乙烯)。
- 頑固污垢
→ (頑固污垢的去除方法)



要求

- 請勿在已拆下加濕過濾網的狀態下運行。
(否則可能無法達到加濕效果。)
- 取出水盤後排水。請勿直接從主機排水。
(否則主機內部進水後，可能引起故障。)

*1 由於污濁狀況會根據水質的不同而有所變化，因此即使在維護保養後的一個月內，若出現以下情況時請立即更換：維護保養後，也無法去除氣味，水盤中的水沒有減少。

頑固污垢的去除方法

● 水盤	用含有中性廚用洗滌劑或檸檬酸的水進行沖洗。
● 過濾網框 (防黴套件)	浸泡
● 加濕過濾網	浸泡後，進行按壓清潔。

*檸檬酸與溫水的比例為 20克:3升。

< 浸泡清洗的方法>

① 將中性廚用洗滌劑或檸檬酸充分溶解在溫水 (約 40 °C 以下) 中。

② 浸泡 30 分鐘左右，然後用清水沖洗 2 至 3 次。

- 請沖洗乾淨，否則會有洗滌劑的殘餘氣味或引致機件故障。

加濕過濾網/過濾網框

加濕過濾網/過濾網框 <約1個月1次^{*1}>(假定1天運轉8小時)

■ 加濕過濾網

用清水或溫水進行按壓清潔 (約40℃以下)。

- 請勿用刷子刷洗或用洗衣機清洗。
- 請勿使用乾燥機乾燥。(可能導致縮小)
- 當污垢或氣味難以去除時，請將嚴重髒污的過濾網和過濾網框放在加有中性廚用洗滌劑或檸檬酸的溫水內浸泡30分鐘左右，然後再用清水沖洗2至3次。
 - 僅加濕過濾網可使用含氧類漂白劑 (用量請以漂白劑使用說明書為準)

■ 過濾網框

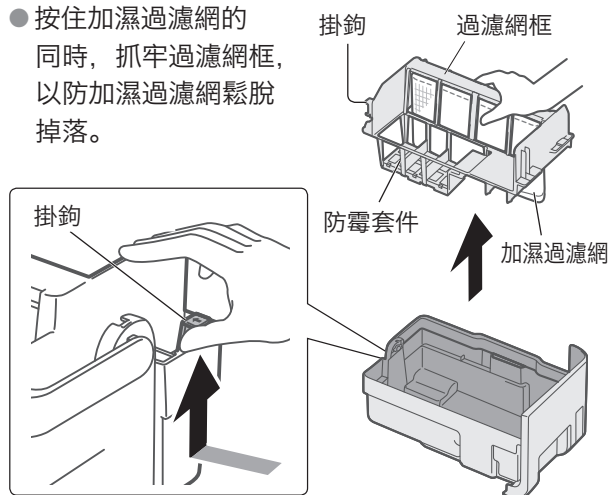
進行水洗。

- 請勿使用刷子擦刷、或用力按壓防霉套件。
- 請勿拆開防霉套件。

拆卸方法

按住過濾網框的掛鉤，同時向上提起。

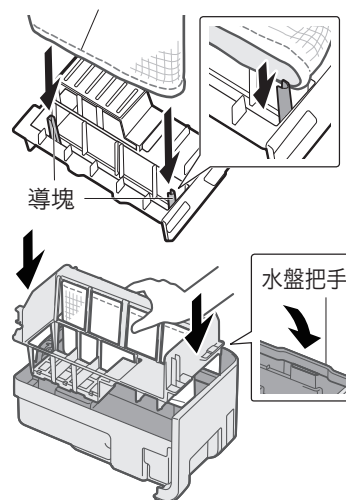
- 按住加濕過濾網的同時，抓牢過濾網框，以防加濕過濾網鬆脫掉落。



組裝方法

- ① 上下翻動過濾網框。
- ② 沿著過濾網框的導塊，將加濕過濾網完全插入。
- ③ 朝向與浮子相反的方向將水盤把手放倒。(如果向浮子一側放倒，則無法安裝過濾網框。)
- ④ 手持加濕過濾網，將過濾網框安裝至水盤。(按壓過濾網框直至發出嗒聲。)

接縫側 (使藍線位於內側)



提示

- 防霉套件中有時會有粉末出現，並非使用上的問題。
- 防霉劑伴隨使用會變小，並非防霉性能的問題。
- 防霉劑有其特殊的氣味，但是對人體無害。

更換加濕過濾網的參考時間

(維修配件 第22頁)

更換期限	條件
大約10年1次 ^{*2}	假定1天運轉8小時

^{*2} 根據水質的不同，加濕過濾網的使用壽命會有所變化。

出現以下情況時請立即更換。

- 清潔後，也無法去除氣味。
- 水盤中的水沒有減少。
- 損傷嚴重。

- 更換後，請在標籤上填寫過濾網開始使用日期，並將其黏貼在主機背面。
- 請將使用過的過濾網作為非可燃垃圾處理。請勿扔掉過濾網框。

長期不使用時

- ① 拔下電源插頭。(因為停止工作時也耗電。)
- ② 請倒掉水盤中的水，對所有部件進行清潔。
- ③ 徹底擦乾內部。(否則，因生銹可能導致設備發生故障。)
 - 加濕過濾網應在背陰處徹底晾乾。(否則會發霉。)
- ④ 蓋上塑膠袋，豎直存放在乾燥的場所。(平放或倒置存放可能會導致設備發生故障。)

更多信息

關於「nanoe™」

產生 nanoe™ 的環境條件

- nanoe™ 利用室內空氣產生，根據溫度和濕度的不同，有時可能無法穩定產生。
- 產生條件
室內溫度：約 5 °C 至 35 °C (露點溫度：約 2 °C 以上)
相對濕度：約 30 % 至 85 %

產生少量臭氧

- 產生 nanoe™ 的同時，也會產生微量臭氧。但其產生數量相當於森林或自然環境通常存在的臭氧量，對人體無害。

關於 nanoe™ 技術

■ nanoe™

所謂「nanoe™」，是指利用最先進的納米技術生成的水合納米離子微粒。通過 nanoe™ 技術，能夠有效除菌^{★1}、抑制過敏物質（花粉）²、抑制霉菌³、去除附著性氣味⁴ 等，從而打造出有利於滋潤美膚的空間。

★ <浮動真菌> 這是在 25 立方米密閉空間下測試 4 小時後得出的結果，並非實際使用空間效果。

★ <附著菌> 這是在 23 立方米密閉空間下測試 8 小時後得出的結果，並非實際使用空間效果。

除臭效果會根據周圍環境（溫度/濕度）、運行時間或氣味/質地類型的不同而有所差異。

- 這是 nanoe™ 設備的驗證結果，不同於本產品的驗證結果。

*1 <浮動真菌>

- 實驗機構：北里環境科學中心
- 實驗方法：直接將細菌放置在 25 立方米的實驗室內，以測定所空氣中懸浮的細菌數量。
- 除菌方法：釋放 nanoe™
- 對象：浮動真菌
- 實驗結果：經過 4 個小時之後，殺滅 99 % 以上的懸浮菌
[實驗編號 24_0301_1]

<附著菌>

- 委託實驗方：日本食品分析研究中心
- 實驗方法：直接將細菌放置在 23 立方米的實驗室內，以測定布塊上所附著的細菌數。
- 除菌方法：釋放 nanoe™
- 對象：標準布塊上附著的細菌
- 實驗結果：經過 8 個小時之後，殺滅 99 % 以上的附著菌
[編號 13044083003-01]。每次實驗僅針對某一類型的細菌實施。

*2 ● 實驗機構：松下電器（株式會社）分析中心

- 實驗方法：在 23 立方米的實驗室內，採用 ELISA 方法測定布塊上所附著的致敏物質。
- 除菌方法：釋放 nanoe™
- 對象：附著的花粉等致敏物質
- 實驗結果：經過 8 個小時之後，殺滅 88 % 以上的致敏物質。
[BAA33-130402-F01]

*3 ● 委託實驗方：日本食品分析研究中心

- 實驗方法：在 23 立方米的實驗室內，檢測實驗布塊上所附著的真菌。
- 除菌方法：釋放 nanoe™
- 對象：附著的真菌
- 實驗結果：8 個小時之後效果得到確認。[編號 13044083002-01]

*4 ● 實驗機構：松下電器（株式會社）分析中心

- 實驗方法：在 23 立方米的實驗室內，以 6 級氣味強度測量方法進行驗證。
- 除臭方法：釋放 nanoe™
- 對象：附著的煙味
- 實驗結果：在 2 個小時後，氣味強度下降 1.2 個等級。[BAA33-130125-D01]

nanoe™ 及 nanoe™ 標誌是 Panasonic Corporation 的商標。

防霉套件的功能

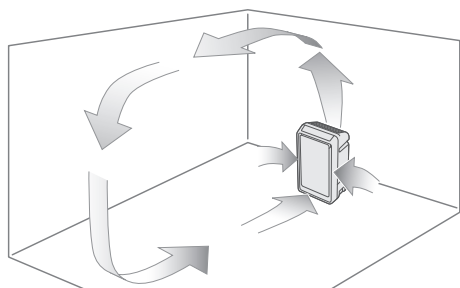
它能抑制防霉劑中的酶並使水盤中的水保持清潔。

- 委託實驗方：日本紡織檢查協會
- 實驗方法：通過防霉實驗方法 (Halo 法) 進行確認
- 防霉方法：在水盤內安裝防霉套件。
- 對象：水盤中的加濕過濾網
- 實驗結果：確認有抑制效果 [編號 09006504-1]

Eco mode智慧節能模式

是指每小時檢測房間內空氣污物的「偵測模式」和通過掌握每天污物產生時間規律，在污染擴大之前先行運轉加濕空氣清新機的「學習模式」共同組合而成的自動模式。通過在空氣潔淨狀態下自動停止運轉來節約電力。同時通過先行運轉，在污染擴大前進行有效消除，從而縮短運轉時間。

偵測模式



空氣變潔淨後會自動停止運行。運行停止狀態持續50分鐘後，將開始以「偵測模式」運行10分鐘。

(運行時的風量保持在急速[Hi]與低速[Lo]之間)。

- 在運轉中止過程中以及偵測模式期間，若檢測到污物時，將以對應污濁程度的風量運轉。
- 加濕過程中，即使室內空氣已經清淨，產品仍會根據室內濕度運行。

學習模式

在運行過程中，監測記錄空氣污染物產生的時間段以及污染程度，次日將在所記錄的污垢產生前5分鐘進行預防運轉。(記錄雖然是每日更新，但是拔下電源插頭後，之前的記錄會全部消除。)

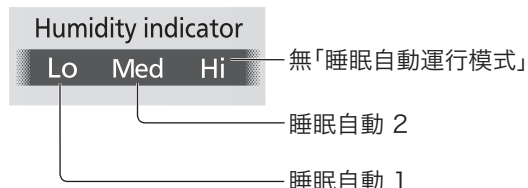
睡眠自動運行模式

通過亮度感應器檢測室內亮度，自動調節操作面板上的指示燈的亮度並自動切換風量。(初次使用時，默設置的[睡眠自動1]模式。)

- 可以改變「睡眠自動運行模式」時指示燈的亮度。

- ① 停止運行，同時按住 **Child Lock** 和 **Clothes Refresh** 按鈕。(濕度指示燈依次點亮)
- ② 達到所需設定亮度後，鬆開按鈕。

濕度指示燈用於顯示：



設定	操作面板	室內亮度	
		微暗	暗
睡眠自動1	空氣污染度指示燈 Eco mode智慧節能指示燈 nanoe™指示燈	燈變暗	燈熄滅
	除上述外	燈全亮	燈變暗
睡眠自動2	空氣污染度指示燈 Eco mode智慧節能指示燈 nanoe™指示燈	燈變暗	燈變暗
	除上述外	燈全亮	
無 「睡眠自動運行模式」	空氣污染度指示燈 Eco mode智慧節能指示燈 nanoe™指示燈	燈全亮	
	除上述外		

- 將風量設定為急速[Hi]或低速[Lo]時，即使設置「睡眠自動運行模式」也不會使風量改變。

感應器的功能

通過感應器檢測空氣的污濁程度，然後通過空氣污染度指示燈顯示污濁情況。設定為自動[Auto]或靜音[Silent]時，將根據污濁的種類選擇最佳風量。

- 在靠近加熱器的場所使用時，因室內空氣的流動，感應器有可能無法檢測到污濁程度。

能檢測到	有時能檢測到
<ul style="list-style-type: none">● PM 2.5(香煙煙霧、灰塵等)● 室內揚塵(灰塵、壁虱的屍體和排泄物、黴菌孢子、花粉)● 煙霧(香煙、香火等)	<ul style="list-style-type: none">● 油煙、水蒸氣

常見問題解答

諮詢及委託維修之前，請先確認。

Q1 加濕過程中，為什麼風較冷？

A

- 「加濕空氣淨化」運行時，因為濕氣從含水的加濕過濾網散發出來時，會吸收空氣中的熱量，所以吹出比室溫低的風。

Q2 加濕過程中，為什麼不會產生水蒸氣？

A

- 此並非使水沸騰的方法，而是採用含水的加濕過濾網遇風而產生濕氣的方法，因此產生的不是水蒸氣。

Q3 加濕量為什麼較少？

A

- 與在梅雨季節濕度較高時以及寒冷的天氣，衣服不易晾乾原理相同，根據房間的溫度和濕度不同加濕量會有所變化。溫暖，乾燥的時候加濕量將增多。

Q4 濕度指示燈是否一直顯示為「紅色」？

A

■高濕[Hi]指示燈持續亮燈時

- 在某些安裝場所，本產品可能無法正確感知濕度情況。
→改變放置場所(第5頁)



■低濕[Lo]指示燈持續亮燈時

- 房間是否過大，已超出適用面積？

提示

- 請將濕度指示燈作為參考。
- 有時與家用濕度計的顯示不同。
- 根據溫度的變化，濕度值會產生變化。
- 空氣流通情況不同，濕度也會不同。

Q5 出風口發出「噠-」的聲音？

A

- 產生 nanoe™時會出現輕微的聲音，這不是異常現象。
- 根據溫度，濕度的不同也可能會不產生離子，但這種情況極少。

Q6 加濕過濾網為什麼變色？

A

- 根據水質的不同有時可能發生變色，並非性能上的問題。

Q7 窗戶以及牆壁為什麼會結露？

A

- 即使房間濕度適中，在溫度較低的窗戶以及牆壁等上也會發生結露。

Q8 PM2.5 指示燈為什麼不閃爍？ (改變傳感器的靈敏度)

A

- 感應器的靈敏度較低時，容易引起此類問題。可調整為指定的感應器靈敏度。
(首次使用時設置為[Med]。)

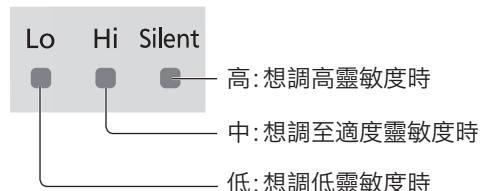
① 停止運行，同時持續按下



(風量指示燈依次亮起。)

② 按需完成靈敏度設置後，鬆開按鈕。

(風量指示燈)



Q9 想關閉加水提示音

A

- 從第2次開始便可關閉加水提示音。
(第1次的提示音不可關閉)

① 停止運行，同時持續按下

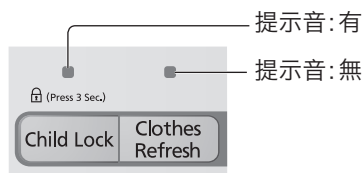
Clothes Refresh 和 **Power Off/On** 按鈕大約3秒鐘。

(兒童安全鎖[Child Lock]，衣物脫臭[Clothes Refresh]指示燈依次亮起。)

② 提示音設置為[無]後，鬆開按鈕。

- 需要提示音響起時，請按同樣的順序將提示音設置為[有]。

(兒童安全鎖[Child Lock]，衣物脫臭[Clothes Refresh]指示燈)



Q10 想要關閉指示燈時

A

- 可以關閉操作面板中的空氣污染度指示燈，Eco mode智慧節能指示燈，nanoe™指示燈。

● 運行過程中，同時長按

Clothes Refresh 與 **Air Volume** 按鈕大約3秒鐘。

(空氣污染度指示燈，Eco mode智慧節能指示燈，nanoe™指示燈滅。)

● 要重新打開，同時按下按鈕並按住3秒。

(空氣污染度指示燈，Eco mode智慧節能指示燈，nanoe™指示燈點亮。)

Q11 運行過程中，指示燈熄滅？

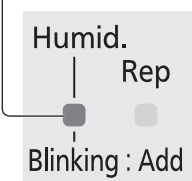
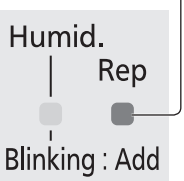
A

- 利用「睡眠自動運行模式」功能，亮度感應器將感應室內亮度，並自動切換操作面板上指示燈的亮度。在[睡眠自動 1]狀態下，室內變暗後，空氣污染度指示燈，Eco mode智慧節能指示燈，nanoe™指示燈滅。(第17頁)

故障排除

首先請確認以下內容。執行此操作後仍無法修復時，請拔下電源插頭，聯繫經銷商 (見保修單) 進行檢查或維修。

故障現象	請檢查以下項目：
① 即使是持續運行，空氣污染度指示燈一直為紅色。	<ul style="list-style-type: none">● 受到浴室等熱氣，噴霧產生的氣體影響，指示燈可能變紅。● 沙塵較多的場合。● 灰塵感應器是否髒污？ (第13頁)
② 無法停止自動運轉。	<ul style="list-style-type: none">● 自動[Auto]或靜音[Silent]運行狀態下，即使室內空氣已經潔淨，清新機仍按室內濕度繼續運行。
③ 空氣有污濁，但空氣污染度指示燈顯示仍為藍色。	<ul style="list-style-type: none">● 灰塵感應器是否髒污？ (第13頁)
④ 難以去除空氣中的污物。	<ul style="list-style-type: none">● 2合1 HEPA多功能及脫臭過濾網是否髒污？ (第13頁) → 維護保養後仍然無改善時，則更換新的2合1 HEPA多功能及脫臭過濾網。
⑤ 出風量少。	<ul style="list-style-type: none">● 2合1 HEPA多功能及脫臭過濾網和加濕過濾網是否髒污？ (第13頁，第15頁) → 維護保養後仍然無改善時，則更換新的過濾網。
⑥ 加濕空氣清新機的氣味讓人感覺不適。	<ul style="list-style-type: none">● 主機和前面板，2合1 HEPA多功能及脫臭過濾網是否髒污？ → 維護保養後仍然無改善時，則更換新的2合1 HEPA多功能及脫臭過濾網。(第13頁)● 水盤及加濕過濾網是否髒污？ (第14頁，第15頁)● 水盤裡的水是否每天都更換成新的自來水？ (第7頁)● 「空氣淨化」模式運行時，請倒掉水盤裡的水。● 是否在氣味較為強烈的房間使用本產品？ 在香煙或烤肉等氣味較強情況下使用本產品時，可能需要短時間內更換2合1 HEPA多功能及脫臭過濾網。(第13頁) → 這種情況下使用本產品時，建議同時為房間通風換氣。
⑦ 水盤水量不減少。 但是加濕指示燈已亮，卻不加濕。	<ul style="list-style-type: none">● 加濕過濾網是否髒污？ (第15頁)● 濕度指示燈是否顯示為高濕[Hi]？ → 自動[Auto]運行模式下，為確保適宜的濕度，在高濕[Hi]狀態下將停止加濕。● 水盤是否已安裝到位？● 加濕過濾網安裝是否正確？ (第15頁) → 安裝露出時，可能會產生異響且無法正常加濕。
⑧ 濕度不增加。	<ul style="list-style-type: none">● 房間是否過大，超出適用面積？● 是否進行了通風換氣，地板上鋪有地毯？ → 鋪有地毯時，根據通風狀況，地板以及牆壁材質的不同，有時濕度可能難以提升。
⑨ 水盤內側有結露。	<ul style="list-style-type: none">● 停止運轉後以及房間較為寒冷時，有可能會產生結露，屬正常現象並非故障。

故障現象	請檢查以下項目：
⑩ 難以將水盤裝到主機上。	<ul style="list-style-type: none"> ● 加濕過濾網，過濾網框是否安裝牢固？(第15頁) →未正確安裝時，可能會導致水盤難裝(或難拆)。
⑪ 加濕指示燈閃爍。 	<ul style="list-style-type: none"> ● 水盤中是否已加水？(第9頁) 「加濕空氣淨化」運行狀態下水已用完。 水用完後轉為「空氣淨化」運行狀態。 →需繼續加濕時，請向水盤中加水。(第9頁)
⑫ 水盤中有水，但加濕指示燈閃爍。	<ul style="list-style-type: none"> ● 水盤是否已安裝到位？ ● 主機是否傾斜？ →請安裝在水平且穩定的檯面或地板上。
⑬ 檢查指示燈亮起。 	<ul style="list-style-type: none"> ● 主機是否翻倒？ → ① 拔下電源插頭。 ② 扶起主機(擦掉附著的水) ③ 停置半日以上，不使用。(倘若內部進水，必須要等完全晾乾後才能使用) ④ 再次接通電源，開始運轉。 ● 是否對主機施加過搖晃，傾斜，撞擊等動作？ →拔下電源插頭，重新插上。 ● 主機上是否放置了磁鐵以及金屬物？ →拔下電源插頭，重新插上。

如遇以下情況，請聯繫經銷商(見保修單)。

⑭ 檢查[Rep]指示燈亮起，風量[Air Volume]指示燈全部閃爍。	<ul style="list-style-type: none"> ● 主機發生故障。 →請拔下電源插頭，並聯繫經銷商(見保修單)進行檢查或維修。
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規格

額定電壓・頻率	220 V～ 50 Hz			
運轉模式	空氣淨化		加濕空氣淨化	
	急速	低速	急速	低速
消耗功率(瓦)* ¹	52	6.5	48	6.5
運轉噪音(分貝)	49	23	49	23
加濕量(毫升/小時)* ²	— * ³	— * ³	350	100
風量(立方米/分鐘)	4.0	1.1	3.7	1.0
水盤容量	約1.6升			
電源線長度	2.0米			
產品尺寸	寬330毫米×深250毫米×高590毫米			
產品淨重	7.2公斤			


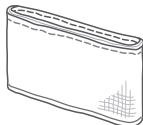
*1 運轉狀態為[關]時，耗電量約為0.2瓦。(插上電源插頭的狀態)

*2 這是在室內溫度20 °C，濕度30 %的環境條件下的加濕量。根據室內溫度以及濕度的不同，加濕量會有所變化。(第18頁)

*3 水盤內有水時，將少量加濕，水盤內的水將有所減少。如果不希望加濕，請倒掉水盤內的水。

●本產品不能去除香煙中的有害物質一氧化碳。

維修配件

<p>●用於更換的2合1 HEPA多功能及脫臭過濾網</p>  <p>型號 ZVLS40H</p>	<p>●用於更換的加濕過濾網</p> <p>不附帶過濾網框</p>  <p>型號 ZVLE40H</p>
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Operating Instructions

Humidifying Air Purifier

Model No. **RVL40H**



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Warranty card attached.

Thank you very much for purchasing this KDK product.

- Please read these operating instructions carefully in order to use the product correctly and in a safe manner.
- Also, be sure to read the “Safety precautions” section (P.26 to 27) before use.
- Make sure that the correct information is written on the warranty card, including the date of purchase and the name of the distributor. Keep the warranty documentation in a safe place along with the operating instructions for future reference.

“House dust catcher” and humidifying function brings clean and moisturizing air to you.

■ Measure against PM2.5

Catches 99 % of the particles having a size of 0.1 to 2.5 μm *1

New particles coming from the outdoor by ventilation etc. are not calculated.

*1 Test method: Japan Electrical Manufacturers' Association voluntary standard (HD-128)

Criteria: The time to remove 99 % of the particles having a size of 0.1 to 2.5 μm in a closed space of 32 m^3 is within 90 minutes. (It is a value converted for the test space of 32 m^3 .)

- PM2.5 is a generic term for fine particulate matters having a size of 2.5 μm or less.
- It has not been confirmed that this product removes fine particulate matter of less than 0.1 μm . In addition, it is not mentioned that this product removes all of the harmful substances in the air.
- The result is of a test in closed space of 32 m^3 , instead of in actual application space.

■ Equipped with the 2 in 1 HEPA composite and deodorizing filter created by combining the dust collection filter and deodorizing filter.

■ “House dust catcher” sucks the dirt near the floor powerfully.

■ Equipped with nanoe™ technology

■ “Eco mode” operation makes electric utility expense cheaper.

Test Method : Operate at “Clean air” mode for 24 hours in the test chamber of 23 m^3 . 5 cigarettes have been smoked.

The values have been compared between:

[Auto] consuming about 138 Wh.

[Auto with Eco mode] consuming about 67 Wh.

These values are a guide only, the effect is different depending on the installation environment and the usage.

■ “Clothes Refresh” operation deodorizes the clothes. *2

The deodorizing effect differs according to the surrounding environment (temperature / humidity), operation time, or type of odor / textile.

*2 Testing organization: ENVIRONMENTAL CONTROL CENTER CO., LTD.

Test method: Conduct verification using six grades odor intensity measurement method. Located 40 cm away from the air outlet in the test chamber of 23 m^3 .

Deodorizing method: Emitting nanoe™ in “Clothes Refresh” operation

Target: Attached cigarette odor, barbecue odor

Test outcome: < cigarette odor > odor intensity drops 2 grades within 60 minutes. [H137229001000DA]

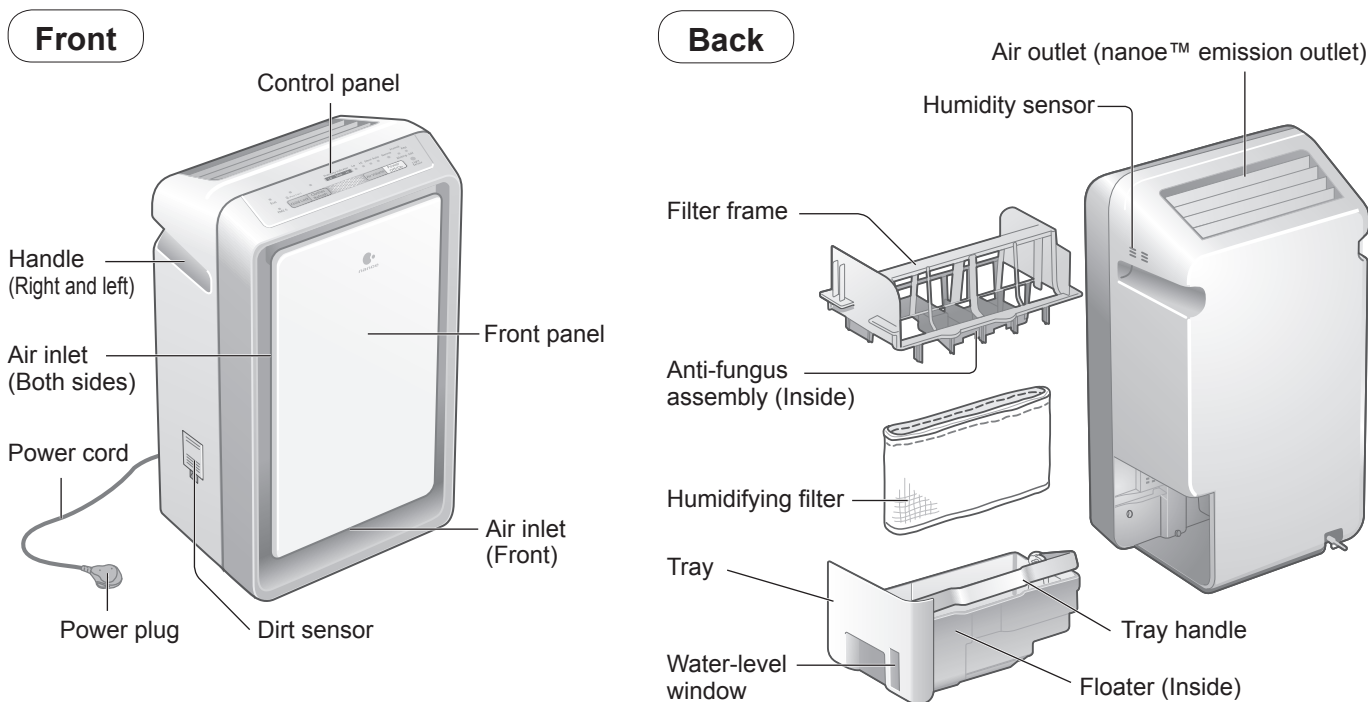
< acetic acid odor > odor intensity drops 1 grade within 60 minutes. [H137229001001DA]

< barbecue odor > odor intensity drops 1 grade within 60 minutes. [H137229001002DA]

■ Sleep mode auto operation

The product detects the indoor brightness with the light sensor and controls the brightness of indicators of the control panel and air volume automatically. (P.37)

Parts identification



Operating conditions

■ Do not put the product in the following places:

- Where the product will be exposed to direct sunlight or direct blowing/heat of air conditioner. (Otherwise, deformation, deterioration, discoloration or malfunction may be caused.)
- Near the window or where the humidity sensor area is blocked.
- Where the wind from air outlet is directly applied to furniture or wall. (Stains may be caused.)
- Near a TV set or radio. (Otherwise, distortion or noises may be caused.)
→ Keep 1 m or more away from such devices. If the power plug is inserted into the same outlet as that of these devices, distortion or noises may be caused. In this case, insert the power plug into another outlet.

It would be effective if placed here!

■ Place it low on the floor as a countermeasure against pollen.

Since pollen and dusts are likely to float in the air near the floor, we recommend you to put the product on the flat floor in the room.

■ To circulate the air efficiently in the room.

To prevent the air inlet or the air outlet from being blocked, install the product with its right, left and the top about 30 cm or more away from walls or furniture, curtains etc. To ensure efficient use of the product, keep its back at least 1 cm away from the wall.

■ Do not place any objects on the product. (Otherwise, malfunction or failure may be caused.)

- Do not place magnet or any metal objects on the product. (Otherwise the built-in magnet detects turnover causing the check indicator to light up, which will stop operation of the product.)

■ When there is a risk of freeze, please empty the tray. (If the product operates with water frozen, failure may be caused.)

■ Operating it continuously at the same location may result in the walls or the floor near the product to become dirty. We recommend that you change the installation place on the occasion of maintenance.

Safety precautions

Always observe these precautions

These safety precautions are provided for your protection. Please read and follow them carefully to avoid personal injury or damage to the product itself or other properties.

■ The following symbols differentiate the levels of danger and injury that may result if the product is not used correctly as instructed.



WARNING

This symbol indicates that improper handling may cause a risk of death or serious injury.



CAUTION

This symbol indicates that improper handling may cause a risk of injury or damage to the product or to your properties.

■ This manual uses a number of other symbols to indicate additional information.
(The symbols given below are examples.)



This symbol indicates an action that must not be performed.



This symbol indicates an action that must be performed.



WARNING

To prevent accidents such as fires and electric shocks



■ In case of any problem or failure, stop using the product immediately and unplug the power plug.

(Otherwise, electric shock, fire or smoke may occur.)

<Example of problem/failure>

- Water leakage
- Moving the power cord stops operation.
- Abnormal noise or vibration is observed during operation.
- The product becomes abnormally hot or burning smell is observed.

→Immediately stop operation, disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.



■ Do not touch the power plug with wet hands.
(Electric shock may occur.)



■ Insert the power plug thoroughly.

(If the power plug is not inserted securely, electric shock or fire due to overheating may occur.)

- Do not use damaged plugs or loosen wall sockets.

■ Periodically clean the power plug.

(If dust builds up on the power plug, it may absorb moisture causing poor insulation, which may result in fire.)

- Disconnect the power plug and wipe it with a dry cloth.
- If not using the product for a long period, disconnect the power plug.



■ Do not pull the power cord when carrying or storing away the product.

(It may damage the power cord, short-circuit may occur and cause electric shock or fire.)



■ Do not disassemble or modify this product.

(Disassembling or modifying the product may result in ignition or electric shock and fire due to malfunction.)

Please contact an authorized service center (as described in the warranty) for repair.



■ Do not insert your fingers or any metal objects into the air inlet or outlet.

(May cause injury and electric shock.)



■ Do not use overloaded wall socket or wiring equipment, and do not use a power supply other than specification.

(If the wall socket is overloaded, fire due to overheating may occur.)

■ Do not do anything that may damage the power cord or power plug.

Power cord must not be damaged, modified, bend excessively, twisted or pulled. Also do not put near heating appliances, or put anything heavy on. Do not bundle.

(Short-circuit may occur and cause electric shock or fire.) Please contact an authorized service center (as described in the warranty) for a check or repair the cord or plug.



■ Do not let the product get wet.

(Otherwise a fire and electric shock may be caused due to short circuit.)



■ Be sure to disconnect the power plug before cleaning the product.

(The product may start operating unexpectedly and electric shock or injury may occur.)



CAUTION



■ Do not put the product in the following places:

- An unstable or high place.
(Otherwise it may drop down or fall over, then cause injury, wet the furniture, leakage, electric shock or fire.)
- Where the temperature or humidity is too high, or where the product is exposed to water, such as a bathroom.
(Electric leakage may cause electric shock or fire.)
- Where oil is contained in the air, such as in kitchens.
(Otherwise, injury may be caused due to cracks.)
- Where oil or inflammable gas is present and may be leaked.
(Otherwise, ignition may occur, or the product may suck and cause a fire or smoke.)
- Where animals or plants are directly exposed to the air.
(Cause of dehydration due to wind)



■ Turn off the product and empty the water before moving the product.

■ Do not carry the tray by holding the filter frame.

(If the water falls, may cause injury, wet the furniture.)

■ Before moving the product, hold the right and left handles to lift and carry the product.

- Do not carry the product by holding the front panel.

(Otherwise it could be slipped out and result in minor injury.)



■ When unplugging the power plug, grasp the power plug instead of the power cord.

(Otherwise, a fire or electric shock may be caused due to wire breakage or short circuit.)



■ Ventilate the room if using this product together with a heater.

(Otherwise carbon monoxide poisoning may occur.)

- This product cannot remove carbon monoxide.



■ Be sure to always keep the water in the tray and interior of the product clean.

If the interior is contaminated by dirt or incrustation,

- Water leakage may occur.
- A foul odor may occur due to mold or bacteria.
- Contamination may harm human health (though it is rare).

→When you feel uncomfortable, please consult a doctor at once.

- Replace the water in the tray with new tap water every day.
- Clean the interior of the product periodically.



■ Do not use cracked or damaged tray.

(This may cause spillage and wet the furniture.)

■ Do not put chemicals, air fresheners, or essential oil into the tray.

(It may damage the tray and wet the furniture.)

■ Do not clean the product with solvents such as benzine or thinner, and do not apply insect sprays.

(This product may become cracked and injury may occur. This may cause spillage and wet the furniture, or short-circuit may occur and cause electric shock or fire.)

■ Do not operate this product in places when using smoke insecticide.

(Chemical residue may build up inside the product and be discharged from the air outlet, resulting in a health hazard.)

- Ventilate the room well after using insecticides before operating the product.

■ Do not sit or lean against this product.

(Otherwise, injuries may be caused.)

- Special attention should be paid when the product is used at home with small children.

■ Do not push over this product.

(A fire or electric shock may be caused if water spills out.)



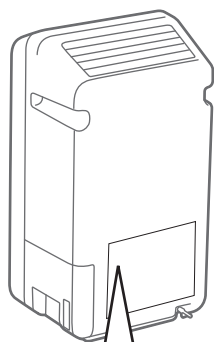
■ Do not put flammable substances or burning items such as cigarette or incense near the product.

(Fire may occur.)

Preparation

Before startup

1 Write down the installation date on the label.



Replacement 2 in 1 HEPA composite and deodorizing filter

Part No. **ZVLS40H**

Date installed:

Replacement humidifying filter

Part No. **ZVLE40H**

Date installed:

- When using the replacement 2 in 1 HEPA composite and deodorizing filter or the replacement humidifying filter (Service parts → P.42), write down the installation date on the label provided with the replacement filter, and stick it on the back of the product.

Attention

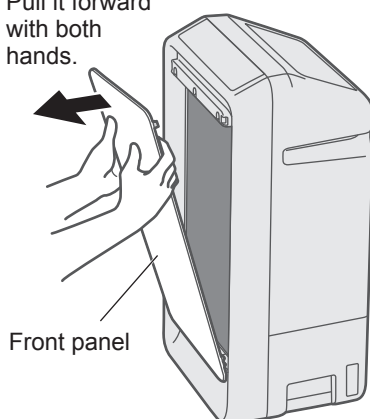
- Be sure to read P.25 to 27 before installation.

Install the 2 in 1 HEPA composite and deodorizing filter

2 Take out the 2 in 1 HEPA composite and deodorizing filter from the poly bag.

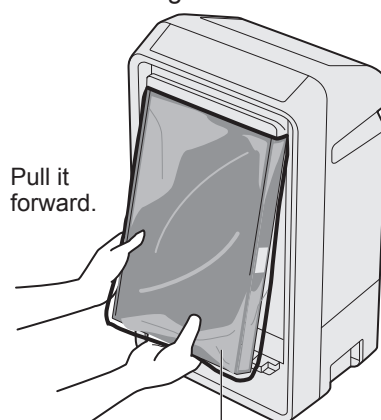
① Remove the front panel.

Pull it forward with both hands.



Front panel

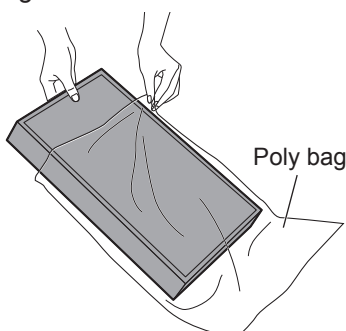
② Remove the 2 in 1 HEPA composite and deodorizing filter.



Pull it forward.

2 in 1 HEPA composite and deodorizing filter

③ Take out the 2 in 1 HEPA composite and deodorizing filter from the poly bag.



Poly bag

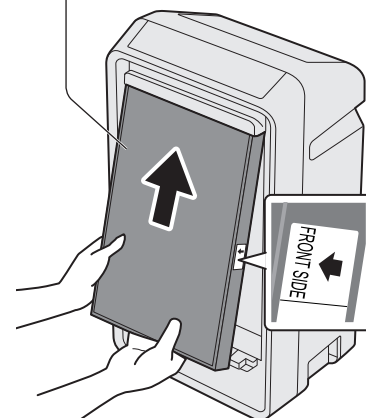
3 Install the 2 in 1 HEPA composite and deodorizing filter and the front panel.

① Install the 2 in 1 HEPA composite and deodorizing filter.

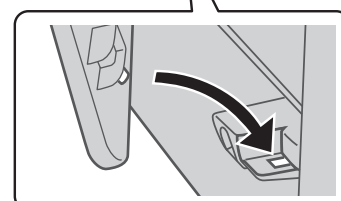
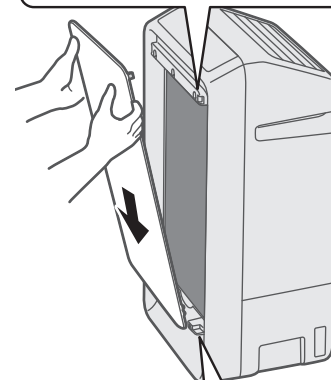
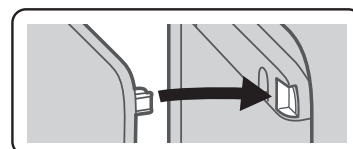
(Install in the correct direction.)

2 in 1 HEPA composite and deodorizing filter

With the front side towards yourself (setting the side with label [FRONT SIDE] to the right), fit into the groove of the product.



② Install the front panel.



- Be sure to attach the front panel before use.

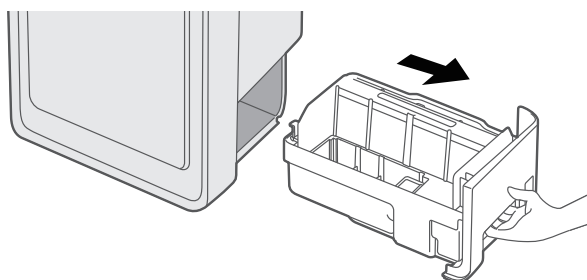
Fill the tray with water

4 Remove the tray, fill it with water, and install it back.

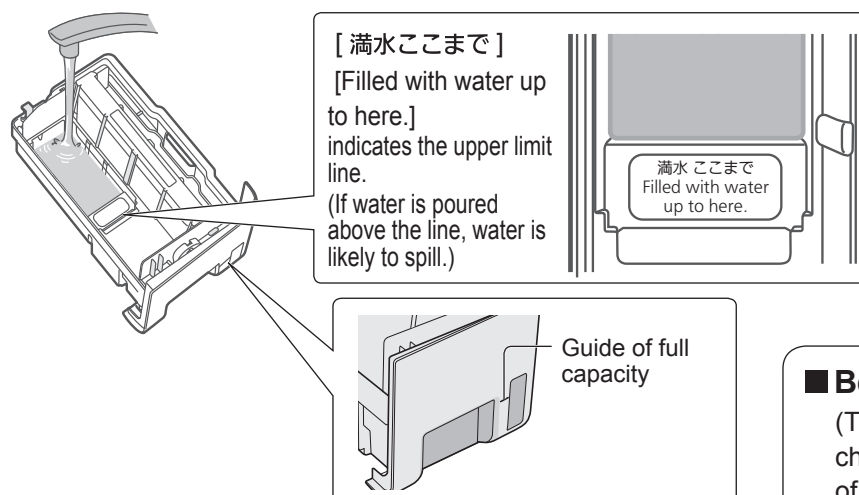
(Water is not required when the product operates in "Clean air" mode.)

- Be sure to disconnect the power plug before water supply the product.

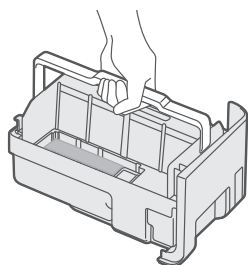
① Remove the tray.



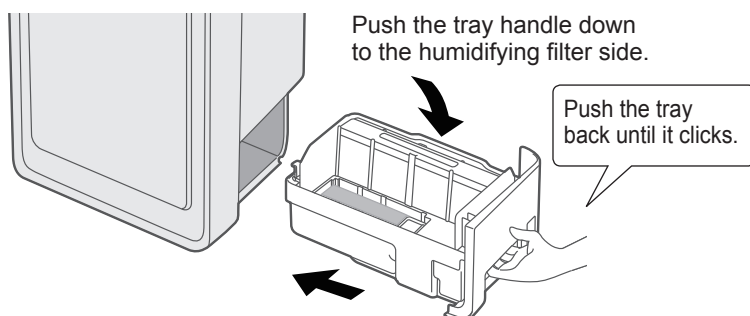
② Fill it with water.



③ Hold the tray handle and carry the tray taking care not to tilt it.



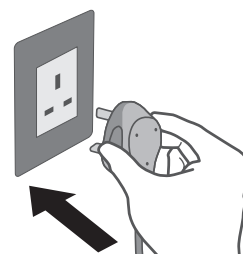
④ Reinstall the tray slowly.



Turn on

5 Connect the power plug.

Wipe the water off the power plug and your hands before inserting it.



- Press **Power Off/On**, and the clean indicator (P.30) blinks blue or red for about 5 seconds.

■ Be sure to use the tap water

(This is because tap water is normally chlorine-disinfected to prevent breeding of bacteria.)

- Do not use the following water:
 - Water above 40 °C or mixed with detergent. (Otherwise, deformation or failure may occur.)
 - Water mixed with chemicals, air fresheners, or essential oil. (It may damage the tray and cause spillage or wet the furniture. :P.27)
 - Water from water purifier, ionized alkaline water and well water. (It may cause mold or bacteria.)

Attention

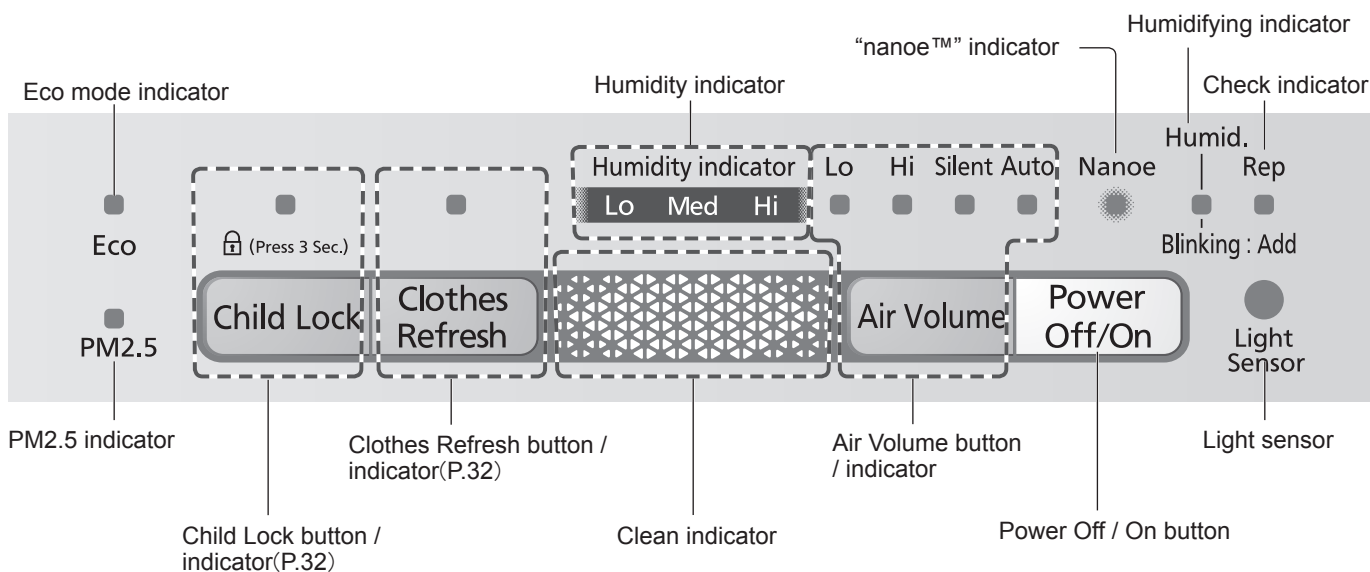
- If you have to use the well water (drinkable), please maintain and clean the tray, the humidifying filter, the filter frame more frequently.

■ Continuous operation time of a tray of water

- Operates for about 4 hours 30 minutes. (Under the condition of [Hi] / room temperature 20 °C and humidity 30 %)

Operating methods

Control panel



■ Eco mode indicator

- The indicator is lit during Eco mode operation. (P.37)
(The indicator is lit when the air volume is set at [Auto] or [Silent].)
- Eco mode operation can be turned off.
 - During operation, press **Child Lock** and **Clothes Refresh** simultaneously and hold for 3 seconds. (Eco mode indicator is turned off.)
 - To restart Eco mode operation, press the buttons simultaneously and hold for 3 seconds again. (Eco mode indicator is lit.)

■ PM2.5 indicator

When the product detects PM2.5, the PM2.5 indicator is lit and the clean indicator blinks red. Then, the clean indicator changes from blinking to lit. (PM2.5 indicator is lit when the product detects substances of the size of 2.5 μm or less, such as cigarette smoke or dust.)

■ Humidity indicator

- The indicator shows the status of ambient humidity.
 - [Lo] (red): indicates the ambient humidity is low (about 40 % or less).
 - [Med] (green): indicates the ambient humidity is moderate (about 40 % to 60 %).
 - [Hi] (red): indicates the ambient humidity is high (about 60 % or more).

■ Clean indicator

The indicator shows the air pollution level detected by dirt sensor. The sensitivity of the sensor can be changed. (P.38 Q8)



(blue): indicates the air is clean.



(red-small): indicates the air is slightly dirty.



(red-large): indicates the air is dirty.

■ nanoe™ indicator

- The indicator is lit when nanoe™ is generated.
- nanoe™ operation can be turned off.
 - During operation, press **Child Lock** and **Air Volume** simultaneously and hold for 3 seconds. (The nanoe™ indicator is turned off.)
 - To restart nanoe™ operation, press the buttons and hold for 3 seconds again. (The nanoe™ indicator is lit.)

■ Check indicator

When the abnormality occurs in the products, the indicator is lit.

When the indicator is lit. → (P.41)

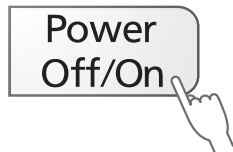
■ Light sensor

Detecting indoor brightness with the light sensor, the product adjusts the brightness of indicators of the control panel and adjusts the air volume, automatically. When the room becomes dark, for example during sleep, the product operates "Sleep mode auto operation". (P.37) (When the air volume is set at [High] or [Lo], the product does not adjust the air volume even while "Sleep mode auto operation" is set.)

How to operate

1

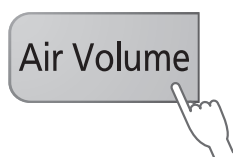
Start operation



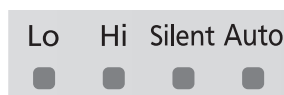
- Fill the tray with water when you want to operate in the "Humidifying clean air" mode.
Water is not required when the product is operated in the mode of "Clean air".

2

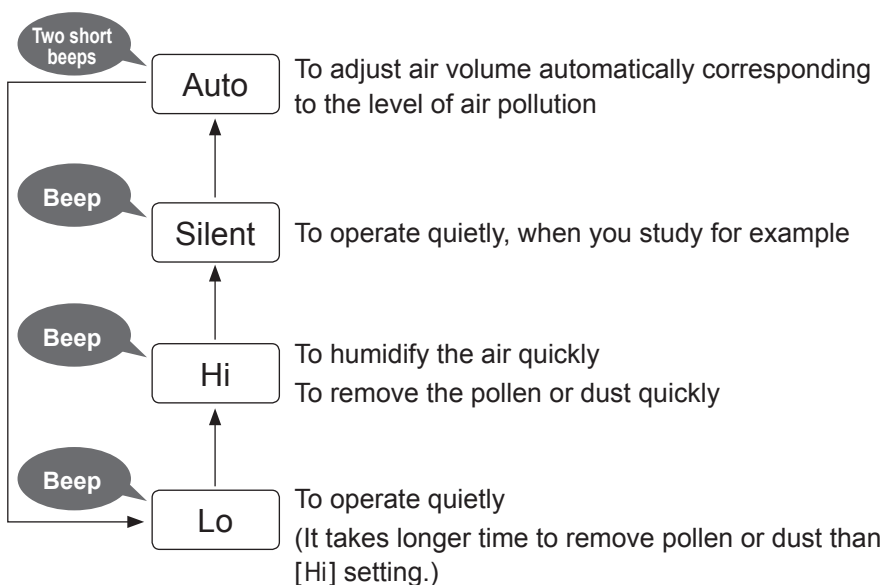
Select the air volume



Each press of the button will switch the air volume setting.

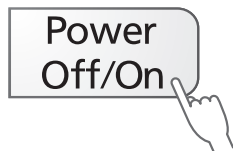


The indicator of selected setting is lit.



3


Stop operation

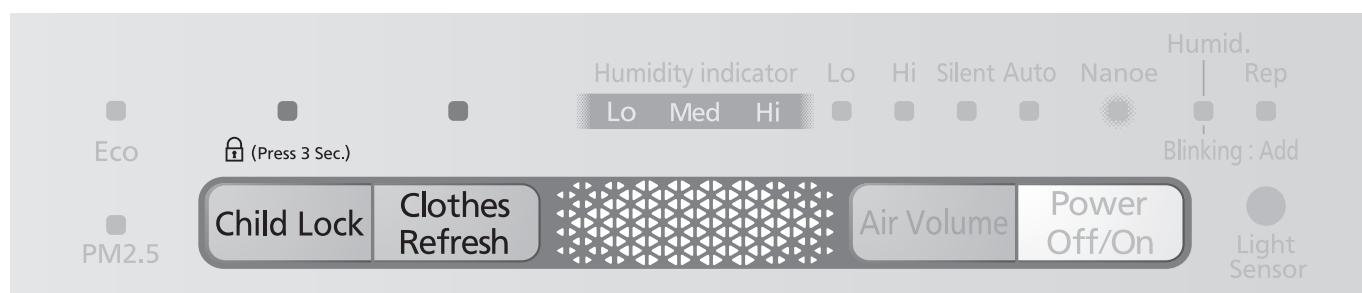


■ Humidifying indicator

- The indicator is lit when the product operates in the "Humidifying clean air" mode.
- When the tray is empty during "Humidifying clean air" operation, two short beeps sound and the humidifying indicator blinks. (The product switches to "Clean air" operation.)

When the humidifying indicator blinks

- Beep sounds every 10 minutes until you fill the tray with water.
You can turn off beep of the second and subsequent. (P.39 Q9)
(During "Sleep mode auto operation (P.37)", the second and subsequent beeps do not sound.)
- When you do not fill the tray with water more than 60 minutes, beep sounds every 60 minutes.
→ Fill the tray with water. (P.29)
- To switch to "Clean air" operation while the humidifying indicator blinks,
press  and turn off the indicator.



Clothes Refresh



(The indicator is lit.)

Clothes Refresh

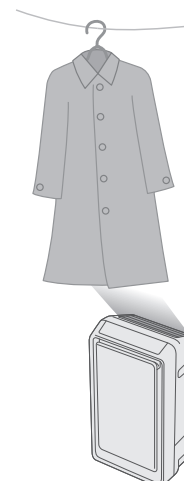


To refresh unpleasant odor of clothes

- After 1 hour operation, the product will switch to the previous operation mode.

■ To cancel

Press the button again. (The indicator is turned off.)



Note

- When you press the [Air Volume] button during "Clothes Refresh" operation, "Clothes Refresh" is canceled.
- You cannot turn off the nanoe™ operation.
- The effect varies depending on the ambient environment (temperature and humidity), operating time, or type of odor or textile.

Attention

- Adjust the position of the product in order to expose the clothes to the air from the product.

Child Lock



(Press 3 Sec.)

(The indicator is lit.)

Child Lock



To prevent the product from mischief operation by children

After setting [Child Lock], if you press the buttons other than **Child Lock**, two long beeps sound and you cannot operate.

■ To cancel

Press the button and hold for about 3 seconds again. (The indicator is turned off.)

Care and maintenance

2 in 1 HEPA composite and deodorizing filter / Body / Front panel / Dirt sensor

Before cleaning

- Be sure to disconnect the power plug.

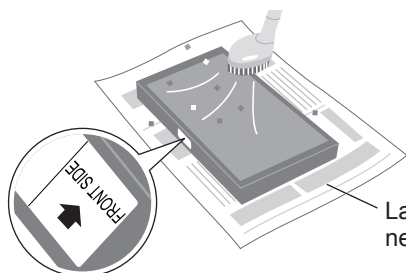
- Do not use the detergent other than the neutral one for kitchen purpose. (Deterioration, deformation or breakage of plastic parts may occur.)
- When using chemically treated cloth, follow its instructions.



2 in 1 HEPA composite and deodorizing filter <about once every 2 weeks>

Suck the front side with vacuum cleaner etc.

(Installation and removal instructions → P.28)
To remove dust accumulated on the filter area, suck with vacuum cleaner etc.



Lay the filter on newspaper etc.

- Do not apply excessive force because it is easy to be damaged. (Pay close attention when cleaning the back side because it is breakable.)
- Do not wash with water.

Attention

- Do not operate without the 2 in 1 HEPA composite and deodorizing filter. (It may make it impossible to obtain the effect to clean air, or may cause failure due to dusts entering the product.)
- Safely keep the parts removed from the product when cleaning. (Otherwise you may trip over them. Or the parts may be damaged.)

Reference time for the 2 in 1 HEPA composite and deodorizing filter replacement

(Service parts P.42)

replacement period	conditions
About once every 5 years*	When six cigarettes have been smoked daily. (Japan Electrical Manufacturers' Association JEM1467)

*Filter replacement period may be greatly shortened, depending on the use environment and conditions. (For example, smoking is frequent.) When the effect has faded (for example when odor stays longer than before), replace the filter.

- After replacement, fill the date installing the filter in the label and stick it on the back of the product.
- Dispose of the used filter as inflammable garbage.

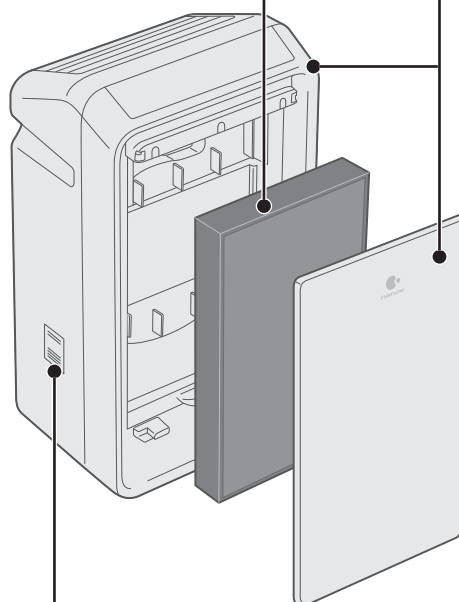
Body, Front panel <about once a month>

Wipe with a soft wrung cloth.

(Installation and removal instructions → P.28)

Wiping with hard cloth may scratch the surface.

- Wipe the power plug with dry cloth.



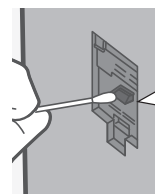
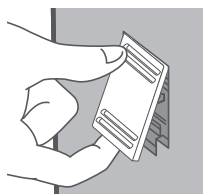
Dirt sensor

<about once every 3 months>

Wipe dirt off the lens with dry cotton swab.

- Wipe the lens periodically. (The sensor may not work normally when it is contaminated with moisture or tar of cigarette.)

- ① Remove the sensor cover.
- ② Wipe dirt off with dry cotton swab.



Lens (Upper left)

Dry cotton swab

- Be sure to disconnect the power plug before cleaning the sensor.
- Do not insert the cotton swab anywhere other than the lens.
- Illuminate the area when you do not see clearly.

Before cleaning

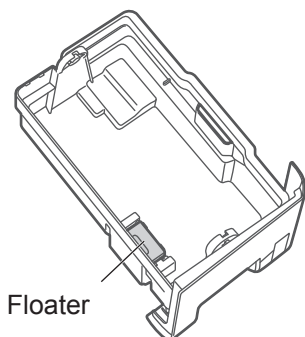
- Be sure to disconnect the power plug.

- Do not use the detergent other than the neutral one for kitchen purpose. (Deterioration, deformation or breakage of plastic parts may occur.)
- You can use the oxygen-based bleaching agent only when cleaning the humidifying filter.
- When using chemically treated cloth, follow its instructions.



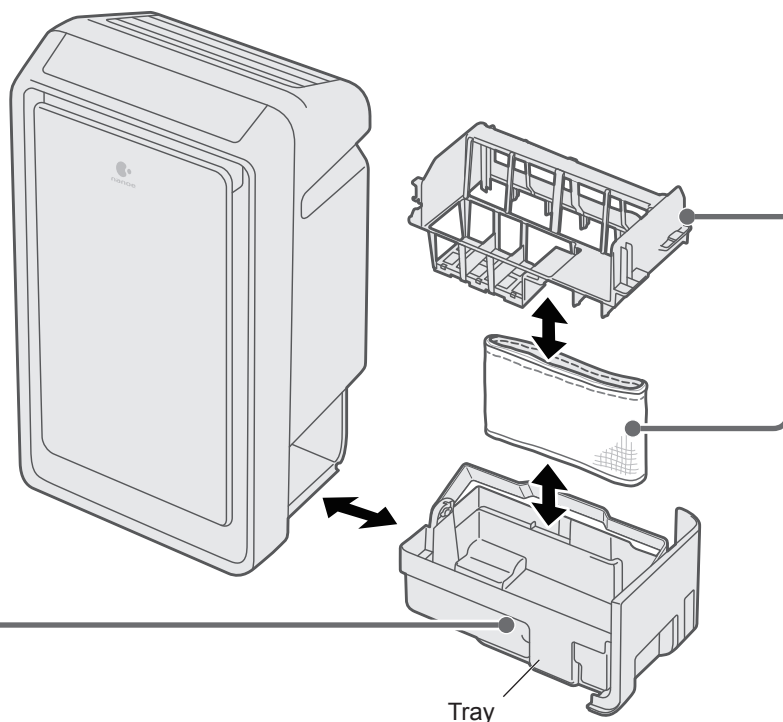
Tray <About once a month*1>

Wash with water.



Floater

- Wipe the dirt in details with cotton swab or toothbrush.
- Do not remove the floater (polystyrene foam).
- Stubborn stains
→ (To remove the stubborn stains)



Tray

Attention

- Do not operate without the humidifying filter. (It makes it impossible to humidify the air.)
- Drain after removing the tray. Do not drain with the tray installed. (Water may enter inside the body, and failure may occur.)

*1 As the dirtiness varies depending on the water quality, maintenance may be required even within one month after the last maintenance. If it smells unpleasant or water in the tray decreases less than before, clean the tray.

To remove the stubborn stains

● Tray	Wash with water containing the neutral detergent for kitchen purpose or citric acid.
● Filter frame	
(Anti-fungus assembly)	Soaking
● Humidifying filter	After soaking, press and wash.

*The ratio of citric acid to warm water is 20 g to 3 L.

How to soak and wash

- ① Dissolve neutral detergent for kitchen purpose or citric acid well in warm water (below about 40 °C).
 - ② Soak the parts for 30 minutes. Rinse with clean water 2 to 3 times.
- Rinse enough, otherwise, the remaining detergent may smell or failure may occur.

Humidifying filter / Filter frame

Humidifying filter, Filter frame <about once a month*1> (based on operation of 8 hours every day)

■ Humidifying filter

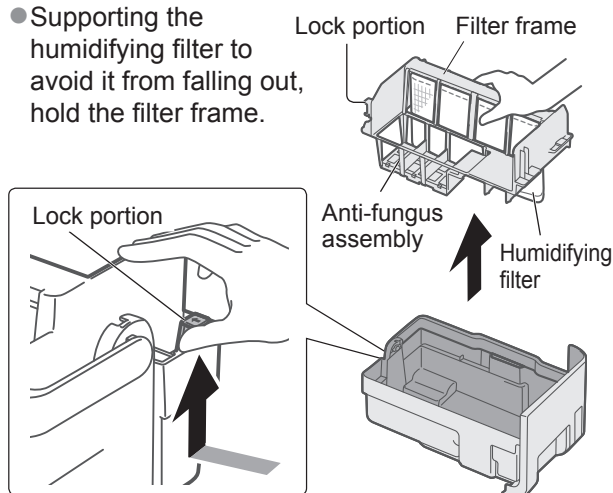
Press and wash in water or warm water (below about 40 °C).

- Do not scrub with brush or do not wash with washing machine.
- Do not dry with dryer. (It may cause shrinkage.)
- If it is hard to remove the dirt or smell, please immerse the heavily stained filter and filter frame in warm water containing the neutral detergent for kitchen purpose or in the solution of citric acid for about 30 minutes, then wash for 2 to 3 times with clean water.
 - Only when cleaning the humidifying filter, you can use the oxygen-based bleaching agent. For use amount, follow its instructions.

How to remove

Lift the filter frame while pressing the lock portion.

- Supporting the humidifying filter to avoid it from falling out, hold the filter frame.



Note

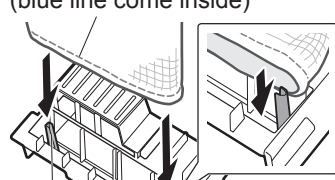

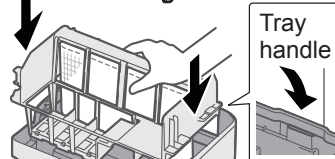
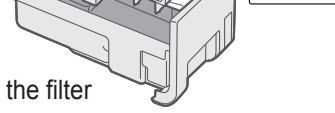
- The anti-fungus assembly may have powder. This is normal and it performs without problem.
- The anti-fungus agent will become smaller over time. This is normal and it performs without problem.
- The anti-fungus agent has a peculiar smell. It is not harmful.

■ Filter frame

Wash with water.

- Do not scrub the anti-fungus assembly with brush, or do not apply excessive force to it.
- Do not disassemble the anti-fungus assembly.

How to assemble

- ① Turn over the filter frame. 
- ② Align the humidifying filter to the guides of the filter frame and insert it thoroughly. 
- ③ Fold the tray handle to the opposite side of the floater. (If you fold the handle to the floater side, you cannot install the filter frame.) 
- ④ While holding the humidifying filter, install the filter frame to the tray. (Push the frame until it clicks.) 

Reference time for the humidifying filter replacement

(Service parts P.42)

Replacement period	Conditions
About once every 10 years*2	Based on 8 hours operation daily

- After replacement, write the date installing the filter on the label and stick it on the back of the product.
- Dispose the used filter as inflammable garbage. Do not discard the filter frame.

*2 The service life of the humidifying filter varies depending on water quality. In any of the following cases, replace it.

- Odor is not removed after cleaning.
- The water in the tray does not decrease.
- It is seriously damaged.

When idle for a long time

- ① Disconnect the power plug. (The product consumes power even at rest.)
- ② Empty the tray and clean all the parts.
- ③ Dry their interiors completely. (Otherwise, the product may fail due to rust.)
 - Dry the humidifying filter completely in the shade. (Otherwise, fungus may occur.)
- ④ Cover the product with poly-bag, and keep in dry places. (Do not keep it laid down or upside down, otherwise, failure may occur.)

Further information

About “nanoe™”

Generating environment of nanoe™

- nanoe™ is generated using the air in the room and hence, depending on the temperature and humidity, nanoe™ may not be generated.
- Conditions for generations
Surrounding temperature: About 5 °C to 35 °C (dew-point temperature: more than about 2 °C)
Relative humidity: About 30 % to 85 %

A small amount of ozone is generated.

- When nanoe™ is generated, small amount of ozone will be released. However, the quantity will be at the usual level in forest or natural environment, and not harmful to human beings.

About nanoe™ technology

■ nanoe™

The nanoe™, generated from the most advanced nanotechnology, is a kind of a nano-sized ion particle coated with water particles. With nanoe™ technology, the effect of sterilization**1, inhibiting allergic substance (pollen)**2, inhibiting mold bacteria**3 and deodorization**4 can be achieved. Furthermore, it creates an atmosphere for beautiful, moisturized skin.

★ <Airborne bacteria> The result is of a 4 hours test in closed space of 25 m³, instead of in actual application space.

★ <Adhering bacteria> The result is of a 8 hours test in closed space of 23 m³, instead of in actual application space.

The deodorizing effect differs depending on the surrounding environment (temperature / humidity), operation time, or type of odor / textile.

● These are the verification results of nanoe device, and these are different from the verification results of this product.

*1 <Airborne bacteria>

- Testing organization: Kitasato Research Center of Environmental Sciences
- Test method: Suspend bacteria in the test chamber of 25 m³ and measure the bacteria count in the air.
- Inhibiting method: Emitting nanoe™
- Target: airborne bacteria
- Test outcome: inhibited 99 % and above in 4 hours. [Test number 24_0301_1]

<Adhering bacteria>

- Testing trustee: Japan Food Research Laboratories
- Test method: Suspend bacteria in the test chamber of 23 m³ and measure the bacteria count adhered to a cloth.
- Inhibiting method: Emitting nanoe™
- Target: bacteria that was ingrained in standard cloth
- Test outcome: inhibited 99 % and above in 8 hours [No. 13044083003-01]. Each test carried out on only one type of bacteria.

*2 ● Testing organization: Panasonic Corporation Analysis Center

- Test method: Measure allergic substances adhered to a cloth with ELISA method in the test chamber of 23 m³.
- Inhibiting method: Emitting nanoe™
- Target: adhered allergic substance of pollen
- Test outcome: inhibited 88 % and above in 8 hours. [BAA33-130402-F01]

*3 ● Testing trustee: Japan Food Research Laboratories

- Test method: Confirm fungi adhered to a cloth in the test chamber of 23 m³.
- Inhibiting method: Emitting nanoe™
- Target: adhered fungi
- Test outcome: Confirm the effect in 8 hours. [No. 13044083002-01]

*4 ● Testing organization: Panasonic Corporation Analysis Center

- Test method: Conduct verification using six grades odor intensity measurement method in the test chamber of 23 m³.
- Deodorizing method: Emitting nanoe™
- Target: adhered cigarette odor
- Test outcome: odor intensity drops 1.2 grades within 2 hours. [BAA33-130125-D01]

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Functions of the anti-fungus assembly

It inhibits the enzyme with the anti-fungus agent and keeps water in the tray clean.

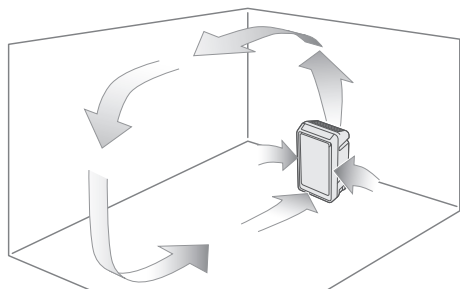
- Testing trustee: Japan spinning inspection association
- Test method: Verify the method to prevent mold bacteria (Halo method).
- Anti-fungus method: Install the anti-fungus assembly to the tray.
- Target: Humidifying filter in the tray
- Test outcome: confirm that inhibited. [No. 09006504-1]

Eco mode operation

It is the automatic operation by combining the "patrol mode" in which the product checks the dirt in the air in the room every hour, with the "learning mode" in which the product can forecast the dirt generation by mastering the generation time of dirt every day.

It saves power by stopping operation automatically when the air is clean. Meanwhile, the product will operate in advance to eliminate the dirt effectively before spreading, thus reducing the operation time.

Patrol mode



The product will stop operating automatically after the air is cleaned. After the operation is paused for 50 minutes, the product will operate for 10 minutes in the patrol mode.

(Air volume is controlled between [Lo] and [Hi].)

- While the operation is paused and in the patrol mode, if the dirt is detected, the product will operate with the air volume corresponding to the level of dirtiness.
- While humidifying, even if the dirt is not detected, the product will operate corresponding to the ambient humidity.

Learning mode

During operation, the product memorizes the time and dirtiness level, and the next day, it will run the preventive operation 5 minutes before the memorized time.

(The memory is updated every day. If it is disconnected, the previous memory is erased.)

Sleep mode auto operation

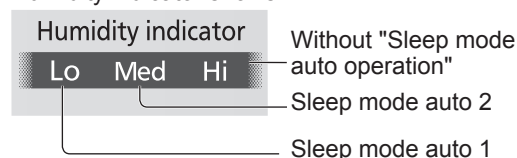
The product detects the indoor brightness with the light sensor and controls the brightness of indicators of the control panel and air volume automatically. (The initial setting is [Sleep mode auto 1].)

- The brightness of indicators in "Sleep mode auto operation" can be changed.

- ① Stop operation, then press and hold **Child Lock** and **Clothes Refresh** simultaneously.
(The humidity indicator is lit in turn.)

- ② Release the buttons when the brightness reaches you want.

Humidity indicator shows:



Setting	Control panel	Indoor brightness	
		dim	dark
Sleep mode auto 1	Clean indicator Eco mode indicator nanoe™ indicator	Half on	Off
	Other than above	All on	Half on
Sleep mode auto 2	Clean indicator Eco mode indicator nanoe™ indicator	Half on	Half on
	Other than above	All on	
Without "Sleep mode auto operation"	Clean indicator Eco mode indicator nanoe™ indicator	All on	
	Other than above		

- When the air volume is set at [Hi] or [Lo], even while "Sleep mode auto operation" is set, the air volume is kept unchanged.

Functions of dirt sensor

The sensor detects the dirtiness of the air, and the clean indicator shows the dirtiness level. When [Auto] or [Silent] is set, the product will operate with the air volume corresponding to the type of dirtiness.

- The product may not sense the dirt depending on airflow, for example, when a heater is placed nearby.

Detect	May detect
<ul style="list-style-type: none"> ● PM 2.5 (smoke of cigarette, dust, etc.) ● House dust (dust, dead bodies and excreta of ticks, mold spores, pollen) ● Smoke (cigarette, incense, etc.) 	<ul style="list-style-type: none"> ● oil fumes, water vapor

FAQs

Please confirm the following before you contact us for repair.

Q1 The air is cold during humidifying?

A

- During "Humidifying clean air" operation, the air coming from the product will be colder than the room temperature, since the moisture from the wet humidifying filter absorbs the heat in the air.

Q2 There is no steam during humidifying?

A

- This product generates moisture by blowing the humidifying filter containing water, not by boiling the water, and hence does not generate the steam.

Q3 The humidifying amount is reduced?

A

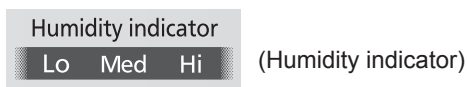
- In rainy season with high humidity or in cold weather, the humidifying amount decreases as you can see, for example, the washed clothes are difficult to dry. The humidifying amount changes depending on the room temperature and humidity, and increases when the weather is warm and dry.

Q4 The humidity indicator remains red?

A

■ The humidity indicator remains [Hi].

- The product may not sense the humidity correctly depending on the installation place.
→ Change the installation place. (P.25)



■ The humidity indicator remains [Lo].

- The room size may be too large for the product?

Note

- Use the humidity indicator only as a reference.
- It may be different from the display of the household hygrometer.
- The humidity value will vary with the temperature.
- The humidity may also vary with the airflow condition.

Q5 A buzz is heard from the air outlet?

A

- The noise comes from nanoe™ generation is normal.
- May cause no generation by temperature and humidity.

Q6 The humidifying filter is discolored?

A

- The filter may be discolored depending on the water quality. This will not affect the performance.

Q7 Dew condensation is on windows or walls.

A

- Even if the humidity in the room is moderate, there may be dew condensation on a cold window or wall.

Q8 PM2.5 indicator does not blink? (Change the sensitivity of the sensor)

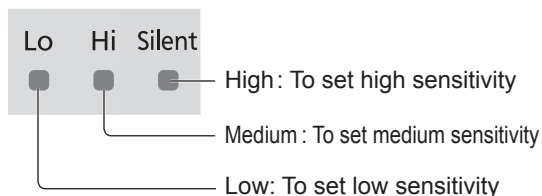
A

- Such problems are likely to occur when the sensitivity of the sensor is low. You can change the sensitivity as you want. (The initial setting is [Med].)

- ① Stop operation, then press and hold **Clothes Refresh** and **Air Volume** simultaneously. (Air Volume indicators are lit in turn.)

- ② Release the buttons when the sensitivity you want is obtained.

(Air Volume indicator)



Q9**To turn off the beep sound announcing water refilling**

- You can turn off the second and subsequent beep sounds. (You cannot turn off the first beep sound.)

① Stop operation, then press and hold

Clothes Refresh and **Power Off/On** simultaneously.

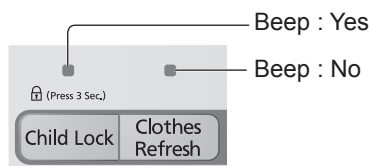
([Child Lock] and [Clothes Refresh] indicators are lit in turn.)

A

② Release the buttons when the setting reaches [No].

- To turn on the beep sound announcing water refilling, you can set [Yes] in the same way.

([Child Lock] / [Clothes Refresh] indicators)

**Q10****To turn off the indicators**

- You can turn off the clean indicator, Eco mode indicator, and nanoe™ indicator.
- During operation, press **Clothes Refresh** and **Air Volume** simultaneously and hold for 3 seconds. (The clean indicator, Eco mode indicator, and nanoe™ indicator are turned off.)
- To turn on again, press the buttons simultaneously and hold for 3 seconds again. (The clean indicator, Eco mode indicator, and nanoe™ indicator are lit.)

A**Q11****During operation, indicators go off?**

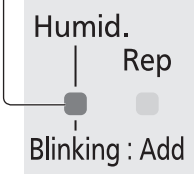
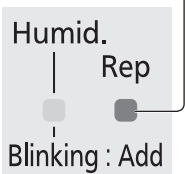
- When you set "Sleep mode auto operation", the light sensor detects the indoor brightness and the product will adjust automatically the brightness of indicators of the control panel.
- When you set [Sleep mode auto 1] and the light sensor detects that the room is dark, the clean indicator, Eco mode indicator, and nanoe™ indicator are turned off. (P.37)

A

Troubleshooting

If a problem has occurred, investigate it by referring first to the table below. If the problem still persists, please disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.

Symptom	Please check the following:
① The clean indicator remains red even when the operation continues.	<ul style="list-style-type: none"> ● The indicator may illuminate red when the product is exposed to steam in the bathroom or vapor emitted from sprayers. ● When the sand is flying in the air. ● Is the dirt sensor dirty? (P.33)
② Automatic operation cannot be stopped.	<ul style="list-style-type: none"> ● Under the setting of [Auto] or [Silent], even if the dirt is not detected, the product will operate corresponding to the ambient humidity.
③ The clean indicator remains blue even when the air is dirty.	<ul style="list-style-type: none"> ● Is the dirt sensor dirty? (P.33)
④ Polluted air is difficult to be removed.	<ul style="list-style-type: none"> ● Is the 2 in 1 HEPA composite and deodorizing filter dirty? (P.33) → Clean it. If the symptom persists, replace it with the new one.
⑤ The air volume is small.	<ul style="list-style-type: none"> ● Is the 2 in 1 HEPA composite and deodorizing filter or the humidifying filter dirty? (P.33, 35) → Clean them. If the symptom persists, replace them with the new ones.
⑥ The odor from the product is unpleasant.	<ul style="list-style-type: none"> ● Is the main body, the front panel or the 2 in 1 HEPA composite and deodorizing filter dirty? → Clean them. If the symptom persists, replace the 2 in 1 HEPA composite and deodorizing filter with the new one. (P.33) ● Is the tray or the humidifying filter dirty? (P.34, 35) ● Is water in the tray replaced with fresh tap water every day? (P.27) ● In "Clean air" mode (without humidifying), empty the tray. ● Has it ever used in a room with strong smells? If the product is used in a room where people smoke or barbecue, a shorter replacement cycle of filters may be required. (P.33) → When the product is used in such environment, we recommend that you use the ventilation system of the room simultaneously.
⑦ The water amount in the tray does not decrease. While the humidifying indicator is lit, the product does not humidify.	<ul style="list-style-type: none"> ● Is the humidifying filter dirty? (P.35) ● Does the humidity indicator show [Hi]? → In the [Auto] setting, the product will stop humidifying to keep appropriate humidity, when [Hi] is on. ● Is the tray installed completely? ● Is the humidifying filter installed properly? (P.35) → When the humidifying filter is installed incorrectly, the product will sound abnormally, and not humidify.
⑧ The humidity does not increase.	<ul style="list-style-type: none"> ● Is the room size too large for the product? ● Is the room ventilated or having a carpet on the floor? → A carpet floor or some types of ventilation and floor/wall materials may prevent smooth humidification.
⑨ There is condensation inside the tray.	<ul style="list-style-type: none"> ● Immediately after the product stops operation or when the room is cold, there may be condensation. This is normal.

Symptom	Please confirm the following:
⑩ It is difficult to install the tray to the body.	<ul style="list-style-type: none"> ● Is the humidifying filter or the filter frame installed properly? (P.35) → If they are installed incorrectly, it may be difficult to install / remove the tray to/from the body.
⑪ The humidifying indicator blinks. 	<ul style="list-style-type: none"> ● Is the tray filled with water? (P.29) Water is empty in "Humidifying clean air" mode. If the tray is empty, the product will switch to "Clean air" mode. → To continue humidifying, fill the tray with water. (P.29)
⑫ Even if the tray is not empty, the humidifying indicator blinks.	<ul style="list-style-type: none"> ● Is the tray installed properly and completely? ● Is the product inclined? → Place the product on the flat and stable platform or floor.
⑬ The check indicator blinks. 	<ul style="list-style-type: none"> ● Is the product fell down? → ① Disconnect the power plug. ② Raise the product. (Wipe off the spilled water.) ③ Leave the product more than half a day without operation. (Dry the interior of the product completely, if water enters inside.) ④ Reconnect and turn on the product. ● Has the product been shaken, inclined, or given impact? → Disconnect and connect the power plug again. ● Has the magnet or any metal objects been placed on the product? → Disconnect and connect the power plug again.

Contact an authorized service center (as described in the warranty) immediately in the following case.

⑭ Check indicator is lit and all Air Volume indicators are blinking.	<ul style="list-style-type: none"> ● Failure has occurred. → Disconnect the power plug and contact an authorized service center (as described in the warranty) for a check or repair.
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Specifications

Power supply	220 V~ 50 Hz			
Operation mode	Clean air		Humidifying clean air	
	Hi	Lo	Hi	Lo
Power consumption (W)* ¹	52	6.5	48	6.5
Operating noise (dB)	49	23	49	23
Humidifying amount (mL/h)* ²	—* ³	—* ³	350	100
Air volume (m ³ /min)	4.0	1.1	3.7	1.0
Capacity of the tray	approx. 1.6 L			
Power code length	2.0 m			
Product dimension	Width 330 mm × Depth 250 mm × Height 590 mm			
Product weight	7.2 kg			


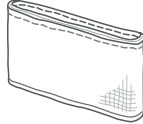
*1 The power consumption is about 0.2 W when the operation is set to [Off]. (With the power plug connected.)

*2 Humidifying amount in the above table tested under the condition of room temperature 20 °C and humidity 30 %.
The humidifying amount may vary with the indoor temperature and humidity. (P.38)

*3 If there is water in the tray, the product uses its water to humidify a little. If you do not want to humidify, empty the tray.

● Carbon monoxide, harmful substance in tobacco, cannot be removed with this product.

Service parts

<p>● Replacement 2 in 1 HEPA composite and deodorizing filter</p>  <p>Parts No. ZVLS40H</p>	<p>● Replacement humidifying filter</p> <p>Filter frame is not included.</p>  <p>Parts No. ZVLE40H</p>
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