



以嶄新科技淨化空氣

香煙氣味

身體氣味

寵物氣味

垃圾臭味

煮食氣味

## air-e

### 天花式納米離子空氣淨化器



FV-15CSN1

日常生活之中，不同的室內活動都會產生各種氣味，  
影響生活環境。



air-e 空氣淨化器可以為你創造一個舒適的生活空間。



air-e 適用於住宅及商用樓宇

運作寧靜

低耗電量

安裝簡易

設計時尚

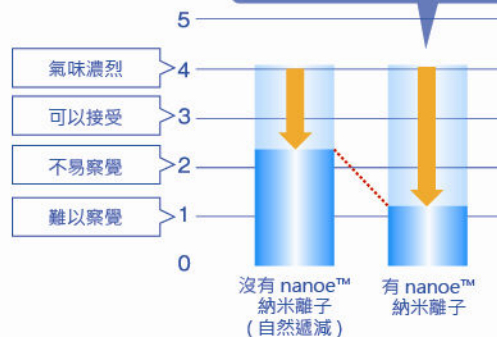
設計慳位

#### 去除煙臭味測試

於 10 平方米的  
測試室內，經過  
8 小時的除臭效果

臭味強度下降約  
1 度

(與未有使用 nanoe™ 納米離子比較)  
臭味強度每下降 1 度等於  
90% 的臭味被去除



- ▲ 檢測機關：Panasonic 環境實驗中心
- ▲ 檢測方法：於 10 平方米的實驗室內運作 8 小時，利用 6 階段臭味強度表示法來検証。
- ▲ 除臭方法：以實物運作檢測。
- ▲ 測試對象：沾附煙味的棉布。
- ▲ 除臭效果會因應不同空間而有所差異。煙蒂所含的有害化學粒子（如一氧化碳等）及長時間連續排放的臭味不能被消除。
- ▲ 氣味除去效果可能會因應不同的環境（溫度和濕度）、運作的持續時間、氣味品種和纖維品種不同而有所不同。



nanoe™ 納米離子如何有效抑制病毒及細菌？

- nanoe™ 納米離子以每秒4800億的速度產生。
- 氫氧基 (OH) 具有從病毒、細菌、臭氣和過敏原中除去氫 (H) 的特性，因此它們能被抑制。氫氧化物越多，抗病毒的效果就越高。每個被釋放到空氣中的納米離子都包含著氫氧基。雖然正常的離子可以在它們隨機地彼此黏附時形成氫氧基，但是不能保證所產生的氫氧基的數量。因此與正常的離子相比，納米離子更能有效去除細菌和異味。

- 納米離子比起負離子多包含約1000倍的水分。由於被包裹在水分子，nanoe™能夠有效保持長時間及長距離活動。

納米離子能捕捉病毒細菌、臭味粒子及過敏原

細菌 氫氧基 納米離子

OH+H=H<sub>2</sub>O

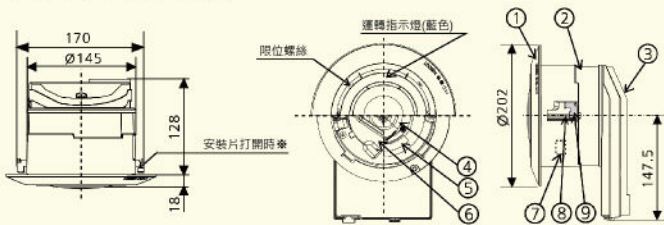
氫氧基從細菌中抽取氫原子，抑制其細胞及活動能力

氫氧基與氫原子結合，轉化成水份

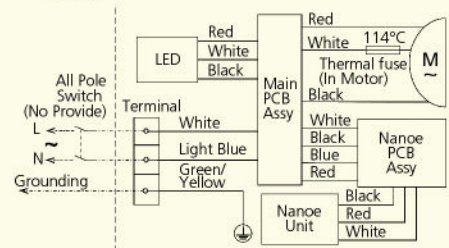
由於納米離子是從空氣中的水分產生的，並不會對nanoe™設備造成任何的損壞，因此機件不必定期更換。

型號：FV-15CSN1

尺寸圖 (單位：毫米)



走線圖



■ 產品主要部品表

序號	部品名稱	數量	序號	部品名稱	數量	序號	部品名稱	數量
①	百葉	1	④	馬達	1	⑦	nanoe™單元	1
②	框架	1	⑤	扇葉	1	⑧	安裝螺絲	2
③	電源盒組合	1	⑥	面罩組合	1	⑨	安裝片	2

\* 安裝片初始位置為閉合。

- nanoe™ 納米離子的產生需配合適當的溫度及濕度的條件。
- 納米離子的產生環境：室溫約5°C至40°C，露點溫度2°C或以上，相對濕度約30%至85%。
- 產生納米離子的同時，也會產生微量臭氣，約等於自然環境中的份量，對人體沒有影響。
- nanoe™ 及nanoe™ 標誌是Panasonic Corporation的商標。
- nanoe™ 納米離子技術並不定義為醫療技術，亦不保證能完全遏止傳染性疾病。有關nanoe™納米離子技術在抑制病毒、細菌、過敏原等詳細實驗環境，請參閱網頁<http://panasonic.net/technology/nanoe/experiment.html>。
- 本單張所載之測試結果在獨立針對nanoe™納米離子製造組件之實驗環境下取得，測試結果亦可能在不同實驗環境下而改變。
- 適用範圍是指nanoe™納米離子可到達的範圍。
- 使用產品前，請仔細閱讀安裝說明。
- 印刷圖示與產品的實際顏色可能有所差異。
- 規格如有變更，恕不另行通知。
- 如有任何爭議，信興電工工程有限公司保留最終決定權。

規格

電壓 (伏特)	220
額率 (赫茲)	50
總功率 (瓦特)	4
風量 (每小時立方米)	15
噪音水平 (分貝)	23.5
重量 (千克)	1.1
安裝孔尺寸 (毫米)	Ø 150



Purifying Indoor Air With Innovative Technology

- Tabacco  
Smell
- Body  
Odor
- Pet  
Odor
- Garbage  
Odor
- Cooking  
Smell

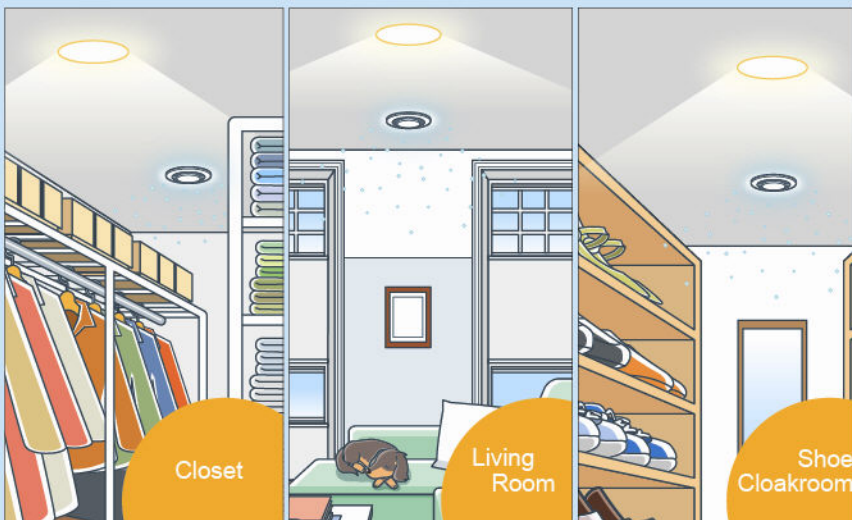
## air-e

ceiling mount nanoe™ generator



FV-15CSN1

In our daily life, there are various odors and smells generated from indoor activities that may affect our comfort.



The occupants can have comfortable indoor environment by air-e application

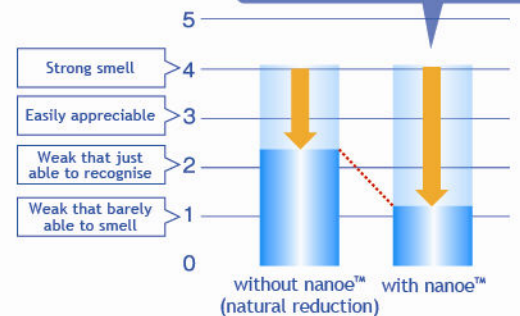
air-e can be used in both residential and commercial buildings

- Low Noise Level
- Low Power Consumption
- Simple Installation
- Contemporary Design
- Space Saving

### Odor Removal Result (Tobacco Smell)

Deodorisation effect in 10m<sup>2</sup> space after 8 hours

**Odor Intensity Drop 1 Level**  
(compared with no nanoe™ generation)  
Odor Intensity drop by 1 level means 90% is reduced



^ Test laboratory: Panasonic Electric Works Analysis Center Co., Ltd.  
 ^ Test methodology: Verifying with 6-level odor intensity indication in 10m<sup>2</sup> space for 8 hours.  
 ^ Deodorisation method: Operating actual product.  
 ^ Test subject: Adhering tobacco smell.  
 ^ Deodorisation effect is subject to different condition. Hazardous substances contained in tobacco (such as carbon monoxide, etc.) cannot be removed. Continuous released odor cannot be removed.  
 ^ Smell removal effect may be varied due to the different surrounding environments (temperature and humidity), operation durations, smell varieties and fiber varieties.





## How does nanoe™ inhibit viruses and bacteria?

- nanoe™ is generated at the rate of 480 billion per second.
- Hydroxide (OH) radical possesses the characteristics of removing hydrogen (H) from viruses, bacteria, odors and allergens, thus they are inhibited. The more the OH radical, the higher the effectiveness of the anti-virus power. Each nanoe has already wrapped OH radical once they release into the air. However, normal ions can form OH radical only when they randomly adhere to each other, thus the number of OH radical is not guaranteed. Therefore, when compared with normal ion, nanoe is more effective in bacteria and odor removal.
- nanoe™ contains moisture around 1,000 times to minus ion. Being wrapped in water molecules, it is long-life and able to retain its effectiveness even moving for long distance.

nanoe™ captures virus, bacteria, odor and allergens

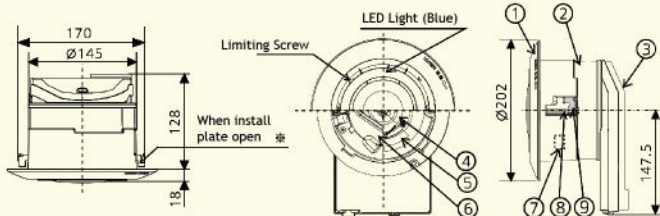
Hydroxide (OH) radical takes away Hydrogen (H) from virus

Form water (H<sub>2</sub>O) and thus viruses are inhibited

nanoe™ is generated from moisture in the air, that will not cause any wear to the nanoe device. Therefore, periodical replacement is not necessary.

## Model FV-15CSN1

Drawing (unit: mm)



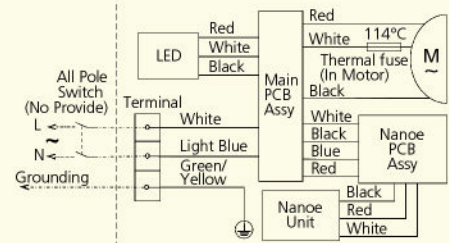
### Main Part List

No.	Part name	Qty	No.	Part name	Qty	No.	Part name	Qty
①	Louver	1	④	Motor	1	⑦	nanoe™ unit	1
②	Frame	1	⑤	Fan	1	⑧	Install Screw	2
③	Electric Case Assy	1	⑥	Orifice Assy	1	⑨	Install Plate	2

※ Initial position of install plate is close.

- nanoe™ is generated from ambient air, and it may not be generated under certain conditions of temperature and humidity.
- Conditions of nanoe generation: Room Temperature around 5° C to 40° C, Dew Point 2° C or above, Relative Humidity around 30% to 85%.
- There is small amount of ozone generated during the operation. The amount is similar to that exists in natural environment. It is not harmful to human being.
- nanoe™ and nanoe™ logo are trademarks of Panasonic Corporation.
- nanoe™ technology is not defined as medical technology, nor guaranteed to completely curb infectious diseases. For information of nanoe™ technology in inhibition of viruses, bacteria, allergens and other detailed experimental conditions, please visit <http://panasonic.net/technology/nanoe/experiment.html>.
- Test results contained in this leaflet obtained in an experimental environment with nanoe™ manufacturing component. Test results may change under different experimental environments.
- Applicable area represents the area nanoe™ can reach.
- Please read the installation instructions carefully before using the products.
- Due to printing conditions, the actual colour may vary slightly from those shown.
- Specifications are subject to change without prior notice.
- In case of any dispute, Shun Hing Electric Works & Engineering Co., Ltd. reserves the right of final decision.

Wiring Diagram



### Specifications

Voltage (V)	220
Frequency (Hz)	50
Power (W)	4
Air Volume (CMH)	15
Noise (dB)	23.5
Weight (KG)	1.1
Hole Size (mm)	ø150