

Photocatalytic Air Purification Unit (Single End Probe Type)



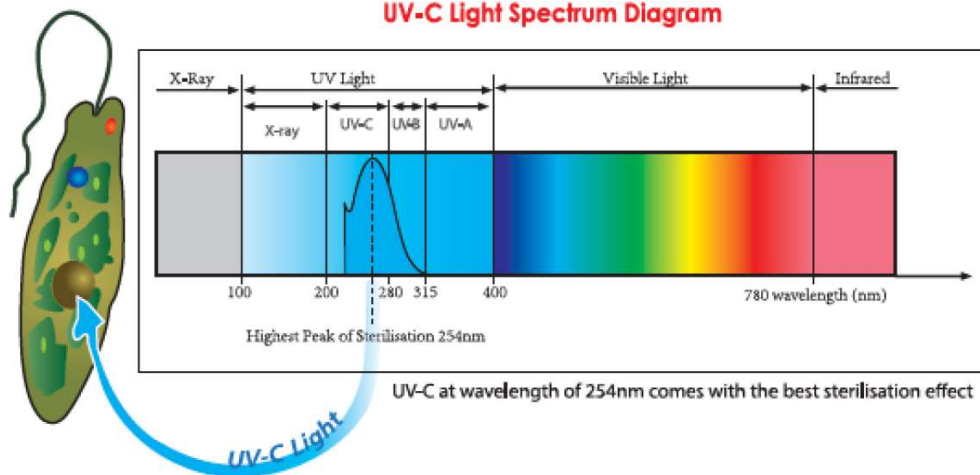
Broad-spectrum germicidal UV light has wavelengths between 200 and 400 nanometers (nm) which is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together. UV-C can penetrate and inactivate them. The UV light annihilates viruses by damaging their DNA sequence. By doing so, the virus loses the ability to reproduce.

Photocatalytic (Photocatalyst)

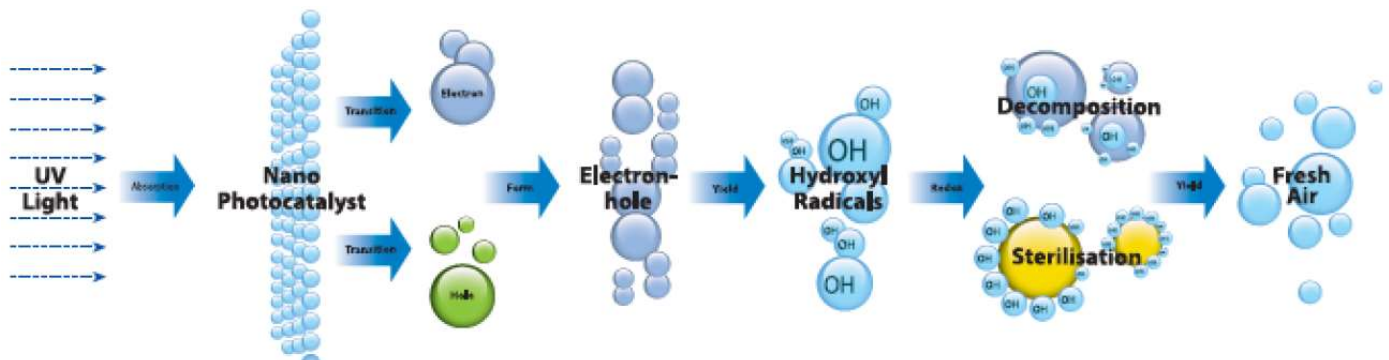
Nano photocatalyst is activated when a specific wavelength is emitted and utilized. This will lead to the generation of electron-hole pairs and it then allows the photocatalyst to react with the H₂O and O₂ molecules. The production of hydroxyl free radicals will enable the harmful contaminations to be captured and subsequently disintegrate the molecular structure and inhibit the growth of germs and viruses.



UV-C Light Spectrum Diagram



UV-C at wavelength of 254nm comes with the best sterilisation effect

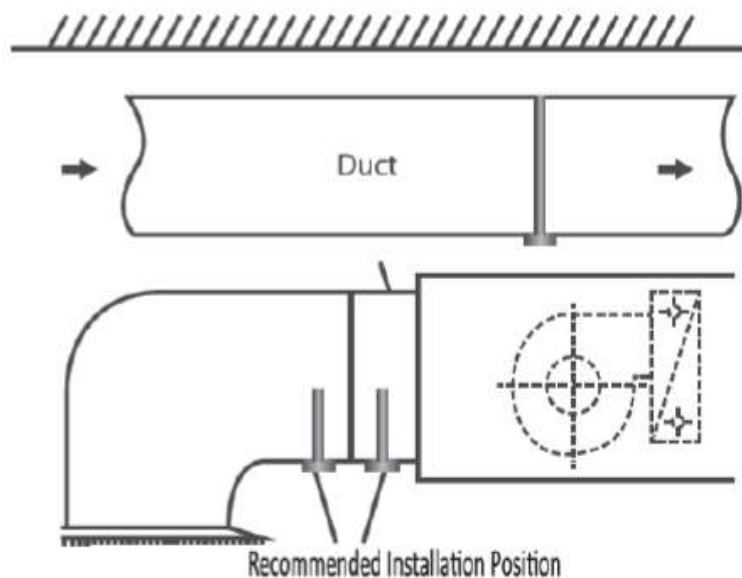
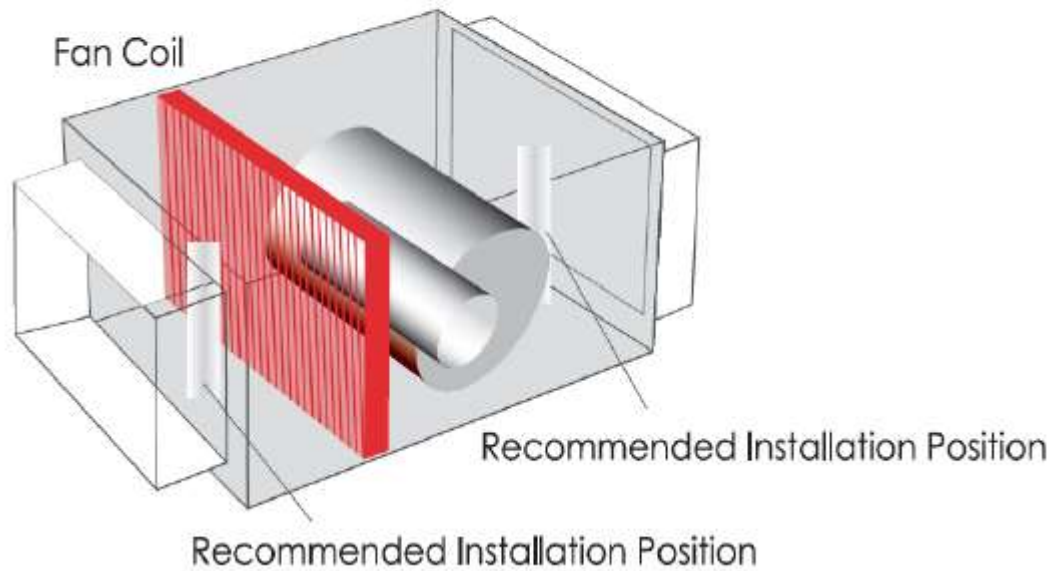


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Installation Guide

▼ Nano Photocatalytic Purification Unit (Single-Ended Probe) Installation Diagram



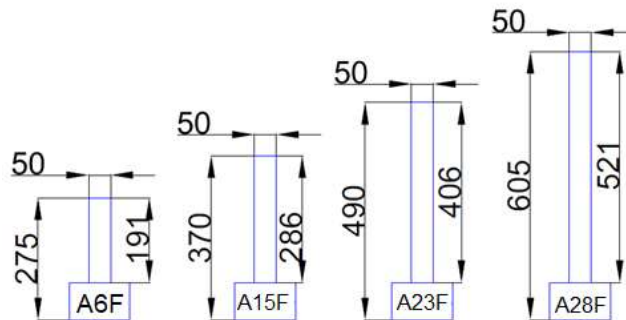
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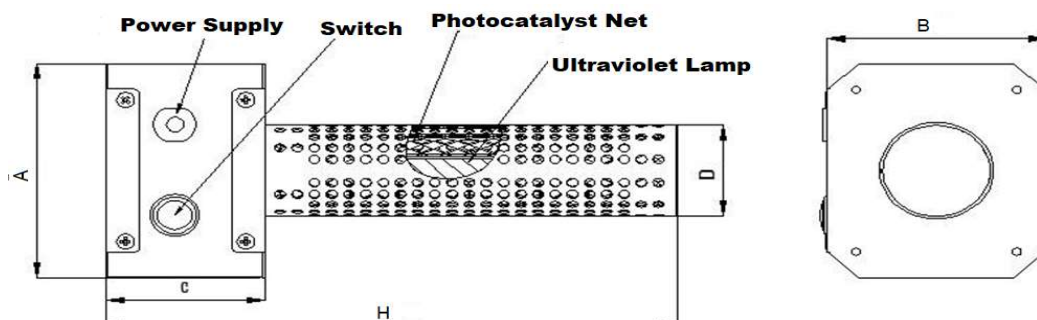
Sizing Guide

Product Specifications

Totaline Model	Applicable air volume	Air Velocity m/s	Equipment dimensions	Rated voltage	Power (W)	Weight (Kg)
	CMH		Total height H x diameter D (mm)			
PCT-A6F-275A0	300 ~ 1500	1.25 m/s	275 x ϕ 50	AC 220V 50HZ	6	1.1
PCT-A15F-370A0	1500 ~ 2500		370 x ϕ 50		15	1.3
PCT-A23F-490A0	2500 ~ 4000		490 x ϕ 50		23	1.5
PCT-A28F-605A0	4000 ~ 8000		605 x ϕ 50		28	1.9



Totaline Model	A (mm)	B (mm)	C (mm)	D (mm)	H (mm)
PCT-A6F-275A0	152	155	84	ϕ 50	275
PCT-A15F-370A0	152	155	84	ϕ 50	370
PCT-A23F-490A0	152	155	84	ϕ 50	490
PCT-A28F-605A0	152	155	84	ϕ 50	605



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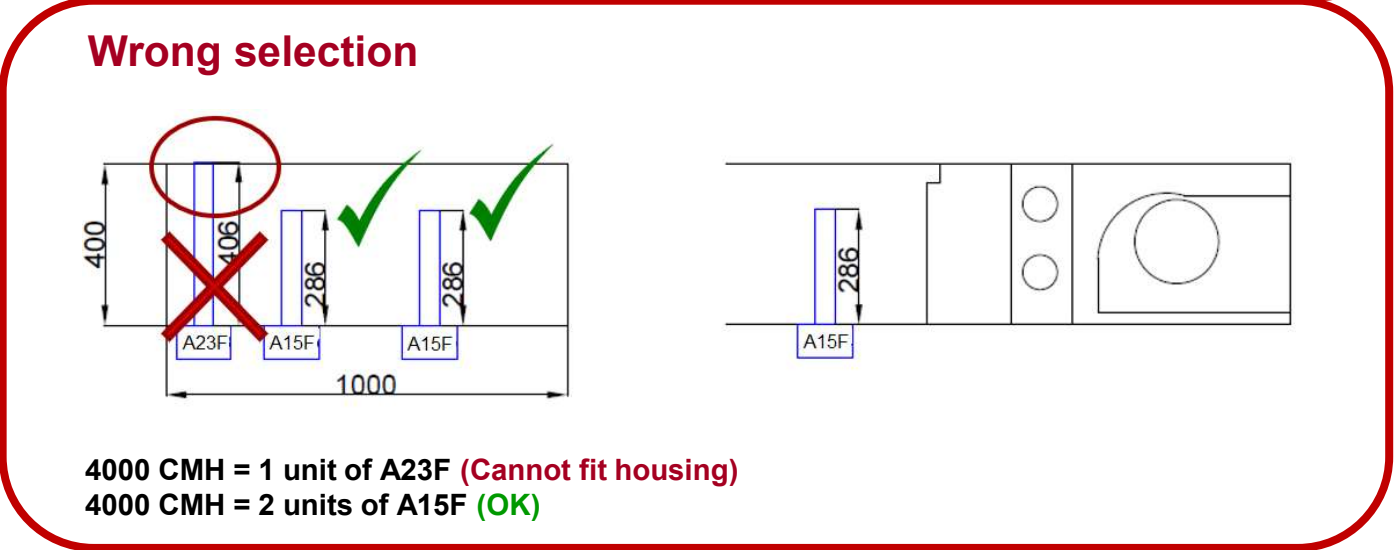
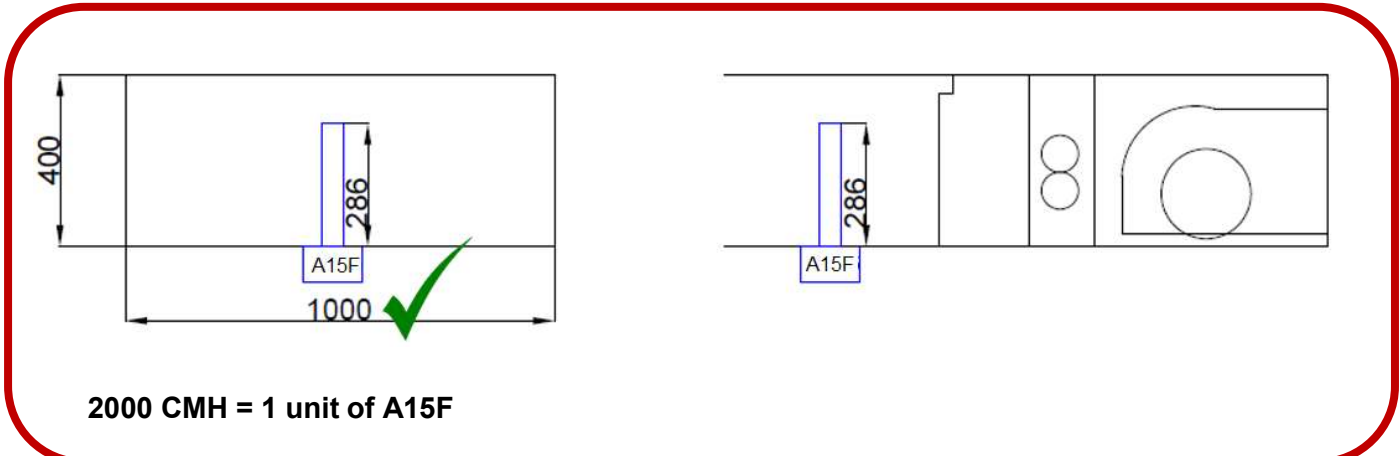


Sizing Guide

Example 1 : For FCU Housing / Duct Size 400H x 1000W

Steps:

1. Identify FCU housing/ ducting dimension H x W and air flow.
- 400 H x 1000 W mm (2000 CMH)
2. Check for model that can cater to the air flow.
- **A15F** x 1 unit
3. Check if the housing dimensions fit the selected model.
- **A15F** (286mm height : installation OK)



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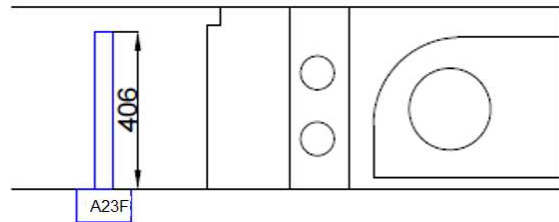
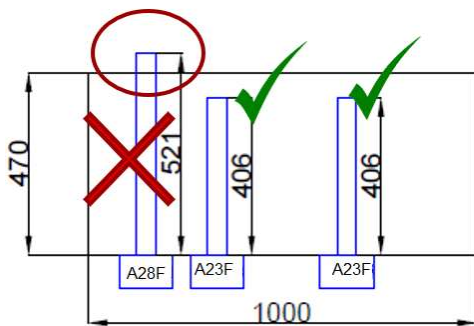


Sizing Guide

Example 2 : For FCU Housing / Duct Size 470H x 1000W

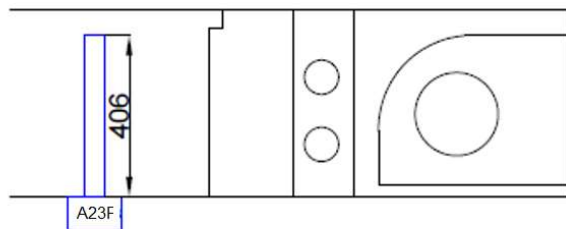
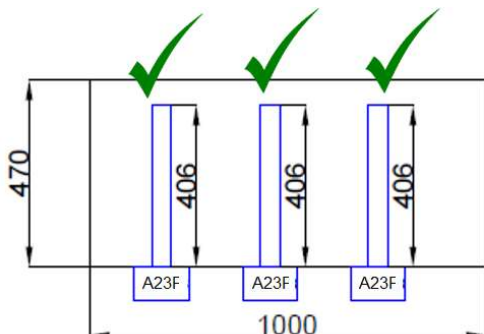
Steps:

1. Identify FCU housing/ ducting dimension H x W and air flow.
- 470 H x 1000 W mm (8000 CMH)
2. Check for model that can cater to the air flow.
- **A23F x 2 unit**
3. Check if the housing dimensions fit the selected model.
- **A23F (406mm height : installation OK)**



8000 CMH = 1 unit of A28F (Cannot fit housing)
8000 CMH = 2 units of A23F (OK)

Airflow of 9000CMH



9000 CMH = 3 units of A23F (OK)