

Service Manual

UV-C Air Disinfection Unit

V1.0 HK



1. Products/Systems in scope:

a. Product description

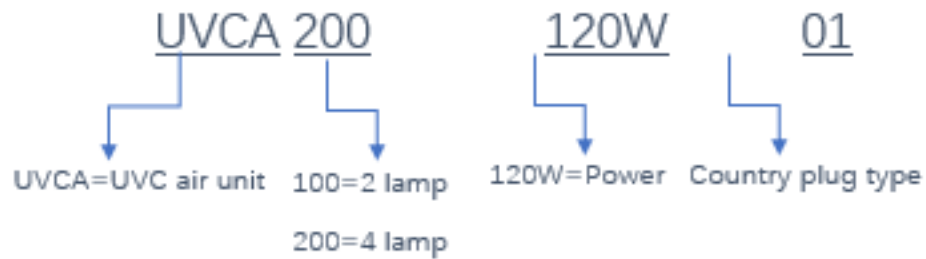
Product: UV-C air disinfection unit

Product Code and Target Country Mapping :

Product Code (12NC)	Description	Target Country
911401703613	UVCA100 84W 01	ANZ standard
911401703623	UVCA100 84W 02	British standard
911401703633	UVCA100 84W 03	China mainland standard
911401703643	UVCA100 84W 04	Indonesia standard
911401703653	UVCA100 84W 05	Korea standard
911401703663	UVCA100 84W 06	KSA standard
911401703673	UVCA100 84W 07	Pakistan standard
911401703683	UVCA100 84W 08	Philippines standard
911401703693	UVCA100 84W 09	Taiwan standard
911401703703	UVCA100 84W 10	Thailand standard
911401703713	UVCA100 84W 11	Turkey standard
911401703723	UVCA100 84W 12	Vietnam standard
911401703733	UVCA200 120W 01	ANZ standard
911401703743	UVCA200 120W 02	British standard
911401703753	UVCA200 120W 03	China mainland standard
911401703763	UVCA200 120W 04	Indonesia standard
911401703773	UVCA200 120W 05	Korea standard
911401703783	UVCA200 120W 06	KSA standard
911401703793	UVCA200 120W 07	Pakistan standard
911401703803	UVCA200 120W 08	Philippines standard
911401703813	UVCA200 120W 09	Taiwan standard
911401703823	UVCA200 120W 10	Thailand standard
911401703833	UVCA200 120W 11	Turkey standard
911401703843	UVCA200 120W 12	Vietnam standard

b. Traceability coding

Naming rule



01	ANZ standard
02	British standard
03	China mainland standard
04	Indonesia standard
05	Korea standard
06	KSA standard
07	Pakistan standard
08	Philippines standard
09	Taiwan standard
10	Thailand standard
11	Turkey standard
12	Vietnam standard

2. Application Conditions

a. Standard conditions of use

Specifications

Input voltage	220-240V 50Hz/60Hz
Power	84W±10% /120W ±10%
Safety Class (driver+system)	Class II
UVC lamp power	2*18W PL-L or 4*18W PL-L
UVC lamp wavelength	254 nm
Ballast	HFP 218/236
UVC Leakage	< 0.2µw/cm ²
Ozone free	Yes
UVC lamp maintain	Yes
Indicator for lamp maintenance	Yes
Safety start	Yes
Time Setting	30/60/120 mins; constant on
Operating temp	5-40 °C
Ta	25 °C
Button press life	15k times
Size (original) (H*L*W)	790*360*360 mm
Moveable	Yes
Wind Speed	3 steps
Lamp Useful life	9000 hrs based on lamp specifications
Motor Lifetime	20k hrs
Housing Material	Plastic (anti UV)
Packaging	Industrial box
Warranty	1 year
Surge	2kV/1kV
Air exchange volume (max. wind speed)	550±10% m ³ /h

b. Additional conditions of use

The product cannot be exposed in the environment, which contains the volatile organic compounds (VOC), the corrosive or explosive or inflammable chemical, thermal source, as well as the sunny light.

3. Serviceability:

a. Service parts

Item Code (12NC)	Description
911401820890	Shading cloth UVCA
927903004007	Lamp UVCA

b. Field Repair Procedure

1. 更换紫外光灯管 Change UV-C lamps:

UV-C 燈管故障代碼：燈管損壞異常時，UV 工作指示燈會閃動，顯示面板同時會顯示下表故障代碼。此時需要按以下步驟進行更換。

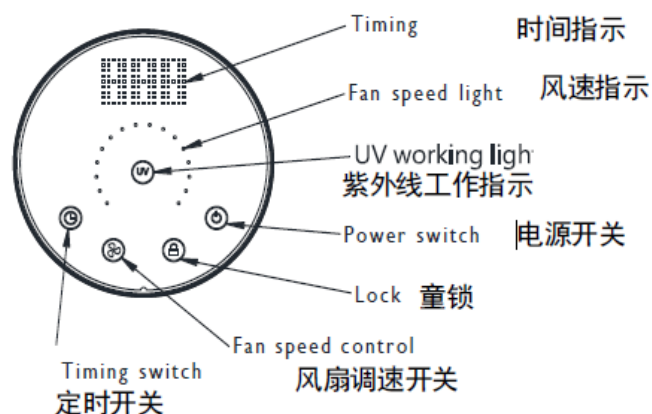
UVC lamp error code: When the UV-C lamp is damaged, the UV indicator flashes and the display area shows one of the following error codes. Then the UV-C lamp should be replaced according to the following steps.

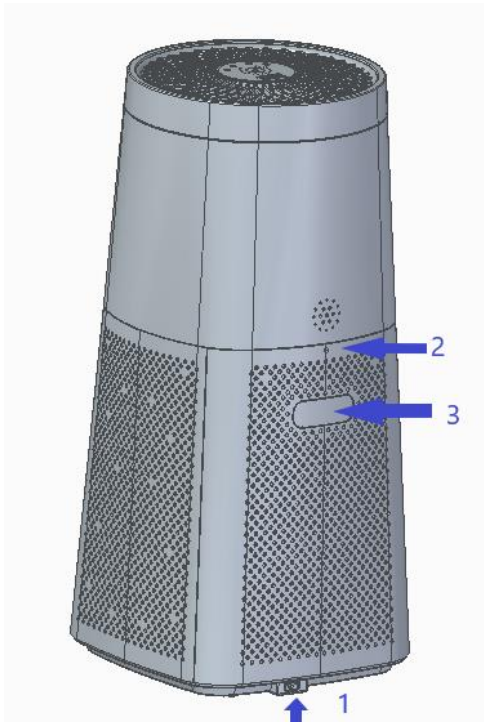
UVCA200

error code	Damaged lamp	Digital display		
		First digit	Second digit	Third digit
1pc lamp damaged	1	E	NA	1
	2	E	NA	2
	3	E	NA	3
	4	E	NA	4
2pcs lamp damaged	12	E	1	2
	13	E	1	3
	14	E	1	4
	23	E	2	3
	24	E	2	4
	34	E	3	4
3pcs lamp damaged	123	E	NA	6
	124	E	NA	7
	134	E	NA	8
	234	E	NA	9
4pcs lamp damaged	1234	E	8	8

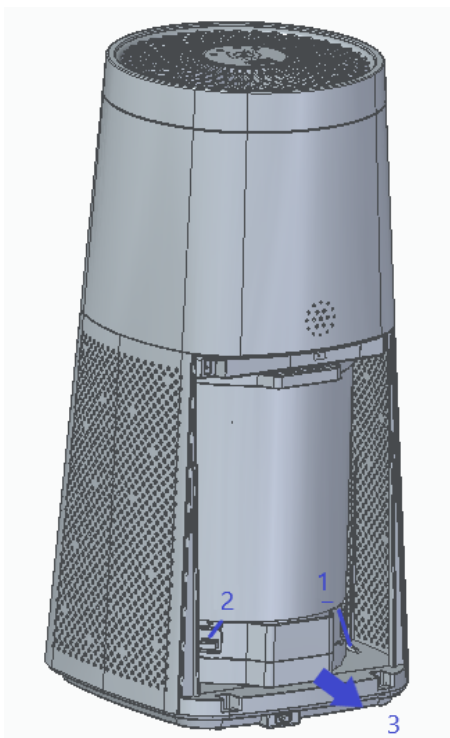
例如：面板显示“E 8”，表示灯管 1, 3, 4都坏了。灯管指示码在紫外灯管底部灯座边上。

For example, the panel displays "E 8", indicating that the lamps 1, 3 and 4 are broken. The tube indicator code is at the base of the UV lamp holder.

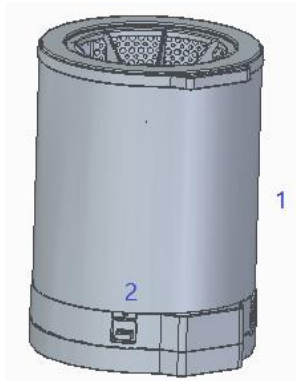




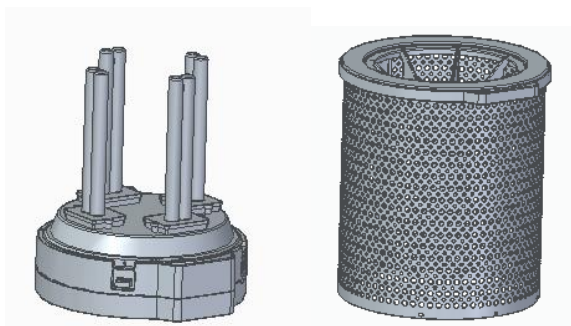
1. 斷開電源線 Disconnect the power cord
2. 鬆開螺絲 Release the screws
3. 取下面蓋 Remove the cover



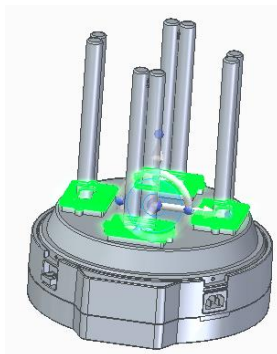
7. 斷開內部電源線 Disconnect the internal power cord.
8. 斷開內部信號線 Disconnect the internal signal cable.
9. 抽出金屬內膽 Pull out the inner metal case



- 1 撕開魔術貼，取下遮光布
Remove the shading cloth
- 2 鬆開底部側面 4 個螺絲 Loose
the 4 screws on the case bottom
surface



- 1 小心取下金屬罩
Carefully remove the
metal cover

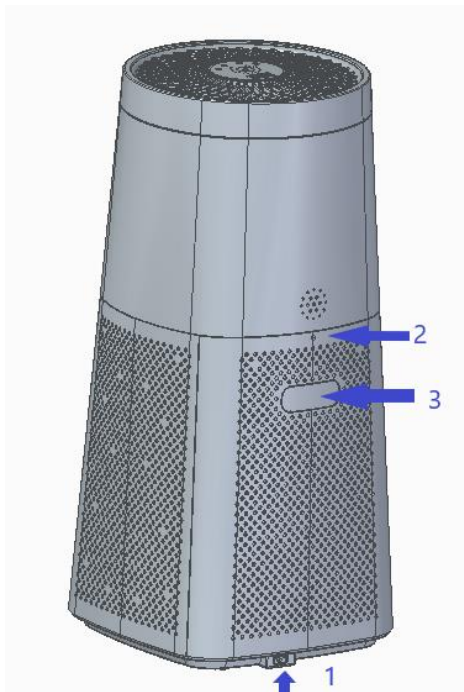


1. 依據錯誤代碼找到對應的燈管，鬆開 2 個保護蓋螺絲，依次取下保護蓋和壞掉的燈管，換上新的飛利浦 UV-C 燈管，再鎖上保護蓋。再裝回金屬罩，鎖上底部 4 個螺絲，然後將新遮光布平整地包覆鐵桶，貼緊魔術貼。需再三確認無漏光。 Identify the corresponding lamps according to the error code, release the screws on the protective cover at the lamp base. Remove the protective cover and replace the UV-C lamps with new ones. Put the protective cover back and the screws on. Put the metal cover back and lock it with the screws on the bottom surface. Wrap the shielding cloth carefully to cover the whole metal case and fix it on its Velcro. Check again to make sure the shielding cloth completely covers the metal case without any gap.

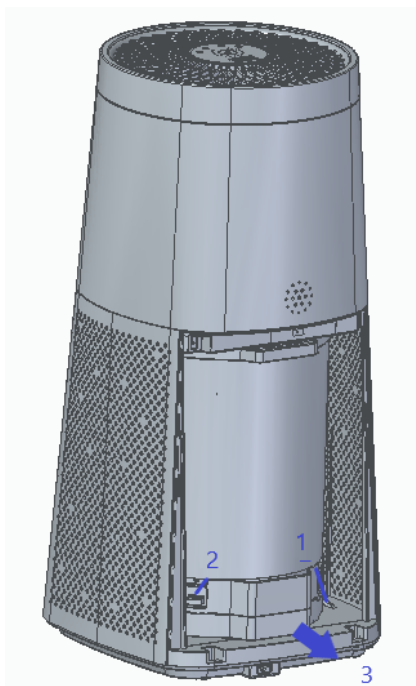
反向進行上述步驟依次將金屬內膽裝回機身，接上信號線和電源線，合上面蓋，鎖上螺絲，連接電源線後通電。 Reverse the above steps in turn to put the inner metal case back into the body, connected to the signal cord and power cord, closed the back cover, locked the screws, connect the power cord after power.

2. 更換遮光布。Change the shielding cloth.

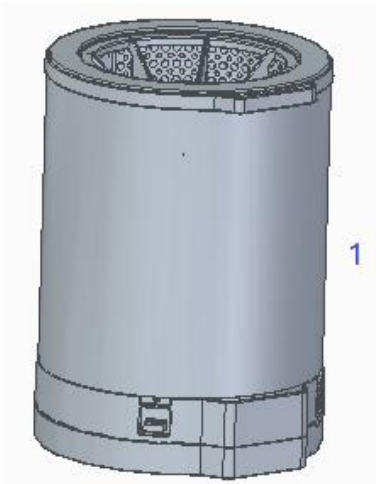
機器工作 9,000 小時後自動顯示故障代碼 E77，此時需要更換遮光布。After 9,000 hour operation, error code E77 shows on the display. Then the shieling cloth must be changed.



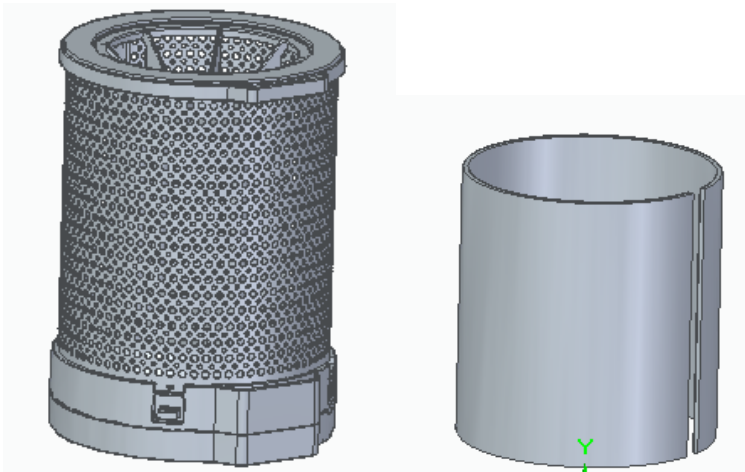
1. 斷開電源線 Disconnect the power cord
2. 鬆開螺絲 Loose the screws
3. 取下面蓋 Remove the cover



4. 斷開內部電源線 Disconnect the internal power cord.
5. 斷開內部信號線 Disconnect the internal signal cable.
6. 抽出金屬內膽 Pull out the inner metal case



- 1 撕開魔術貼，取下舊遮光布。
Loose the Velcro and remove the shading cloth.



- 1 將新遮光布平整地包覆鐵桶，貼緊魔術貼。需再三確認無漏光。 . Wrap the new shielding cloth carefully to cover the whole metal case and fix it on its Velcro. Check again to make sure the shielding cloth completely covers the metal case without any gap.

反向進行上述步驟依次將金屬內膽裝回機身，接上信號線和電源線，合上面蓋，鎖上螺絲，連接電源線後通電。Reverse the above steps in turn to put the inner metal case back into the body, connected to the signal cord and power cord, closed the back cover, locked the screws, connect the power cord after power.

Video demo

- Open device's cover: <https://youtu.be/hNA-l50Lepw>
- Change shielding cloth: <https://youtu.be/MvR3B-iIDx8>
- Change UV-C lamp: <https://youtu.be/fAtiEbD2eis>

4. Refer to Product Manual for more Information.

Revision History

Version	Reason for Change	Author	Date
1.0	Publish	Cooper Zhang	21 Dec 2020
1.0 HK	Publish HK only	Cole Siu	7 Jun 2021