

# INSTALLATION INSTRUCTIONS



## 700mm LED KIT UV AIR DISINFECTION SYSTEM

UV-c is scientifically proven to kill 99.9% of viruses and bacteria, destroying their DNA through germicidal irradiation.



UV  
LIGHT



KILLS  
VIRUSES



NEUTRALISES  
ODOURS

BlueScience UV-c Technology has been developed to provide an easy retrofit system for all existing air-conditioning equipment to treat and protect the air, by constant disinfection, every time it passes through the unit.

After decades of proven use, UV-c disinfection already makes safe the water we drink and the food we eat. Through the process of germicidal irradiation, the UV-C light attacks the DNA/DNR of micro-organisms, killing 99.9% and rendering bacteria and viruses harmless and unable to reproduce or spread. Recent research points to similar effectiveness in killing Coronaviruses.

Advances in high-efficiency LED technology now allows the very air we breathe to be purified and made safe by the same powerful UV-C light.

Huge health concern over airborne transmission of viruses make a compelling case to upgrade to BlueScience UV-c, so that we may all breathe easy and safely.



**ULTRA  
RELIABILITY**



**NO COMPLEX  
SET UP**



**DURABLE  
DESIGN**



**LOW POWER  
CONSUMPTION**

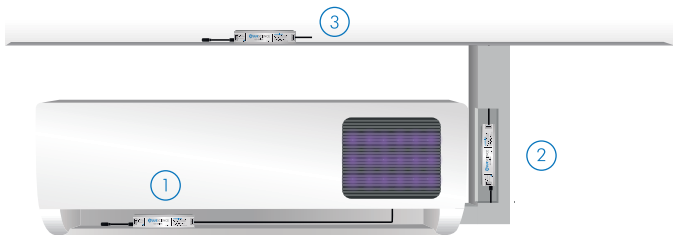


**COMPACT  
SIZE**



**QUICK  
INSTALLATION**

## CAN BE FITTED IN MULTIPLE LOCATIONS



- ① Below Drip Tray    ② Inside ducting    ③ Above Ceiling

**BLUESCIENCE**  
UV AIR DISINFECTION SYSTEM

SAFETY INFORMATION / UV WARNINGS

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**4**

IN THE BOX

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**5**

INSTALLATION

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**6**

UV PPE EQUIPMENT

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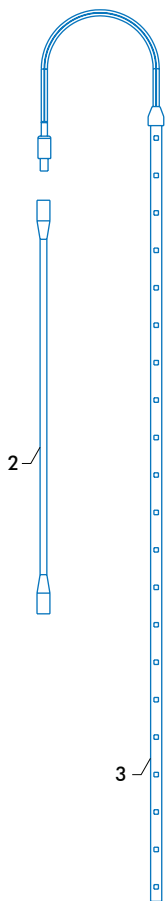
**9**

## UV WARNING

- Warning:** Exposure to direct LED UV light may be harmful.
- Warning:** Always protect eyes and skin from UV LEDs.
- Warning:** Never look directly into UV LEDs during operation.
- Warning:** Disconnect before servicing.
- Warning:** After installation, all UV light should remain internal within the casing.
- Warning:** Ensure no UV light is visible from outside the casing.
- Warning:** High intensity ultraviolet light.
- Warning:** All LED lifespans can vary, for optimisation replace LED's EVERY 12 MONTHS.

## ELECTRICAL WARNING

- Warning:** The appliance must be installed in accordance with national wiring regulations.
- Warning:** Mains power supply must be isolated prior to carrying out any electrical work. All-pole disconnection from mains must be incorporated in the fixed wiring.
- Warning:** The supply cord cannot be replaced. If damaged the appliance must be replaced.
- Warning:** The external accessories must be used only with the appliance provided by the manufacturer.
- Warning:** The power supply mains system must be provided with an 'all-pole disconnection' device connected directly to the supply terminal that providing a full disconnection under overvoltage category III.
- Warning:** This appliance requires no maintenance.
- Warning:** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Warning:** Children shall not play with the appliance.



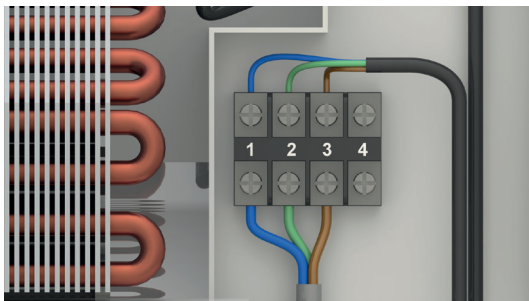
1. LED Driver
2. 1000mm Extension Cable
3. 700mm UV-c LED Strip
4. AC Unit Safety Seal
5. Storefront Protector Sticker
6. Installation Guide

**STEP 1**

Isolate the power to the AC unit

**STEP 2**

Remove the Cover

**STEP 3**

Connect the mains cable from the LED Driver (Input) into to the AC unit live feed so that power is supplied when the AC unit is on, this should be done by a qualified electrician.

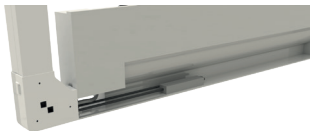
**STEP 4**

Mount the LED Driver where suitable, if it does not fit below the drip tray suggested places are in any plastic ducting that covers the fridge pipes to the AC unit, or in the ceiling void above it.

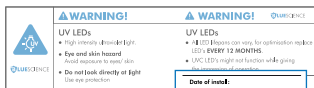
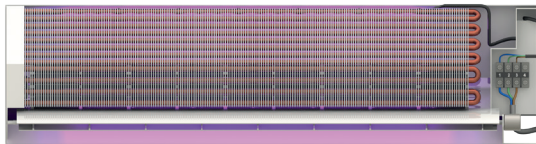


**STEP 5**

Route the cables from the LED Driver (Output) through the AC unit making sure they are free from any moving parts and will not obstruct the casing being re-fitted. The cable should be routed to sit at the top of the evaporator coil close to the 'air in' side.

**STEP 6**

Connect the UV-c LED strip and add date of installation to the tag. Note: it is important for you or any other Engineers to be able to identify the age of the UV-c LED!

**STEP 7**

Lay the UV-c LED Strip on the top of the evaporating coil, making sure the UV-c LED's are facing in towards the unit. UV-c LED's must not radiate out or point out in the direction of the room.

**STEP 8**

If required, UV-c LED Strip can be cut to a desired length. Cuts can only be made at the terminal point seen after each UVC LED labelled 'LED 3', peel back the adhesive strip and fix the UV-c LED strip into place.



## STEP 9



Refit cover.

## STEP 10



Ensuring the filter door is shut, switch power back on and run AC unit. Protective eyewear and skin coverings are required from this point.

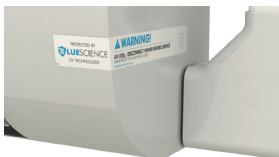
## STEP 11

Using a UVC Meter at a distance of 300mm check in 6 places for readings. Once a zero reading has been recorded around the unit protective eyewear and clothing can be removed.



## STEP 12

Apply BlueScience seal to the unit – to ensure the safety of fellow Engineers.



## STEP 13

Apply storefront protector window sticker at the main entrance of the building.





UV PPE FROM  
**BLUESCIENCE**  
UV AIR DISINFECTION SYSTEM



Protective Eyewear



Gloves



UV-c Meter

AVAILABLE FROM **BLUESCIENCE**

[WWW.BLUESCIENCE.CO.UK](http://WWW.BLUESCIENCE.CO.UK)

# **BLUESCIENCE**

UV AIR DISINFECTION SYSTEM

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ROYCOTT LTD / BLUESCIENCE



UV  
LED's



KILLS  
VIRUSES



NEUTRALISES  
ODOURS