

Technical Specifications and Installation Guide

(Public Spaces)



OXIRA X-Series

OXIRA NOCTURNE

Technical Specifications

Wavelength of UV : 253.7nm

UV Intensity @ 1m : 36 $\mu\text{W} / \text{cm}^2$

Lamp Durability : 15,000 hrs, but recommended to change at 10,000 hrs.

Control System : OXIRA **XDrive6** with smart pre-heat.

Motor Technology: MagLev

UV Arc Length : 132mm

UV Power : 2.7W

Unit Power : 12Vdc @ 18Wmax, power pack supplied to accept 83Vac – 250Vac

Unit Dimensions : 360mmL x 46mmW x 41mmH

Weight: 0.6kg

Area coverage: NOCTURNE model: 260 sqft

International Standards Complied

OXIRA NOCTURNE

FCC Subpart 15B

CE EN 61547

CE EN 55015

EN 61547:2009

IEC 61000:2009

IEC 62471:2008

Power Adaptor

UL60950

UL62368

EN60950

EN60950

EN62368

EN55032

EN61000

EN55024

CCC GB4943

AU/NZ 60950

2011/65/EU

Amd. Dir. 2015/863

2009/125/EC



What technology does OXIRA use, and how does it work ?

The OXIRA NOCTURNE work using ultraviolet irradiation. Air is sucked into the unit, the ultraviolet light treats the air, and then expelled out.

With the NOCTURNE model, the UVC used is at 253.7nm wavelength, which deactivates the cells of viruses, bacteria, yeasts and fungi from the air.

The distance between the UVC source and the microbes are the determining factors of neutralisation power, which is why OXIRA units are designed to be small so that the air passing through the OXIRA units will be at the closest range from the UVC light source for the most efficient neutralisation effect.

OXIRA is so compact, is it really effective ?

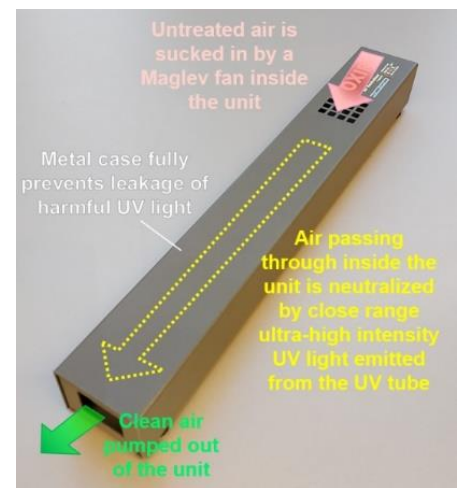
The contact time and distance between the UVC light source and the virus/bacteria particles are the most crucial factors affecting the ability to inactivate the virus/bacteria. The compact design of OXIRA is to ensure that air passing through the UVC chamber in the unit are within extremely close range to the UVC tube for the best germicidal effect. Light intensity - distance relationship is governed by the Inverse Square Rule of physics. Imagine that UV intensity of the German-made UVC tube is 36 microwatts (μW) at 1 meter distance, the intensity is 360,000 μW when it is only at 1cm distance, meaning that the sterilization power is 10,000 times higher at 100 times closer distances. Moreover, with OXIRA's state of the art reflective coating which can increase the intensity by more than 50%, the germicidal power of OXIRA is industry leading and other competitors cannot match.

Installing OXIRA NOCTURNE

IMPORTANT SAFETY NOTE

DO NOT REMOVE THE SCREWS OR THE METAL CASE OF OXIRA UNITS

- Installation in public spaces shall consider the locations of the units for the best germicidal performance. If the units are wall or ceiling mounted, you shall:
 - Adopt the recommended public space coverage area for each unit, that is, 260 sqft;
 - The unit shall be distributed evenly throughout the space to ensure each unit has the bigger coverage radius;
 - Each unit shall be securely installed on solid surfaces to avoid falling;
 - The location of the unit shall be as far away from the air vents or louvres of the ventilation system as possible. Ventilation inlets usually have fresher air while the exhaust vents may bring away the air purified by OXIRA units, and can significantly reduce the germicidal performance of OXIRA units if they are too close. OXIRA units are best placed near the crowd in order to catch the polluted air breathed out from people more efficiently and at the earliest time possible in order to reduce the distance and amount of virus and bacteria spreading;
 - Generally, wall mounted installation is most preferred to be vertically oriented with the exhaust end facing the ceiling and installed at around 2m from floor level. However, the most suitable way to install is to be assessed on a case by case basis. Please consult us for installation with the best performance;
 - For ceiling mounted installation, there is generally no specifically recommended orientation, but we do not recommend to install at overhead level or ceiling higher than 2.8m, as it is most preferred that OXIRA units are installed at closer range to the crowd;
 - OXIRA's original wall/ceiling mounting brackets are most recommended for stability and ease of maintenance;
 - Wall mount and ceiling mount installation shall take into consideration the maintenance work in the future and so installation method to be adopted shall ensure that the unit can be taken off and reinstalled on the wall or ceiling easily;
 - If appropriate, leave the OXIRA units operational 24 hours a day so that the OXIRA unit can purify the air after the crowd has left the space and to reduce moulding and odour which can be exacerbated by the additional humidity after the air conditioning is switched off.
- OXIRA NOCTURNE is safe. It does not generate excessive heat but we do not recommend to put them near flammable matters or liquid.
- OXIRA NOCTURNE air inlet and outlet shall not be obstructed for best efficiency.
- OXIRA NOCTURNE is plug and play without any buttons or controls.
- Please do not use power adaptors not provided by us.



Maintenance of the OXIRA unit

OXIRA NOCTURNE units shall only be serviced or repaired by technicians authorised by OXIRA. The unit shall be serviced once a year and we recommend to replace the UV tube during the yearly maintenance.

For enquiries, please contact us on (852) 2887 5889 or info@oxira.com.hk.