

The ENVA logo is written in a green, lowercase, sans-serif font. The background of the top half of the page features a light green curved band above a darker green curved band, both set against a white background.

environment matters

# Neutralox<sup>®</sup> trial unit product brochure

Powerful odour removal by photoionisation

A red circular button with a white border, containing white text. The background of the bottom half of the page is a photograph of a bright sun shining through a blue sky with scattered white clouds.

CALL  
T. 01928 513 355  
TODAY

**NEUTRALOX<sup>®</sup>**

[enva.com](http://enva.com)

# Odour control equipment for wastewater treatment plants\*

# NEUTRALOX®

**\*Neutralox is a leading manufacturer of cutting-edge odour control equipment. Established in 1999 Neutralox has over 500 installations worldwide. Systems are mainly installed in municipal waste water treatment plants but also have applications for other industries, e.g., chemical and food/beverage.**

Typical odour nuisances caused by hydrogen sulphide (H<sub>2</sub>S), dimethyl sulphate (DMS), ammonia (NH<sub>3</sub>), volatile organic compounds (VOCs), etc., are effectively eliminated even with large air flows.

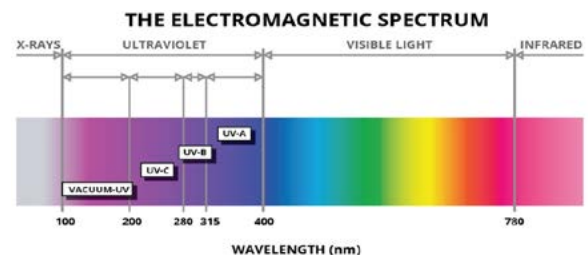
Systems achieve high odour removal rates. This, coupled with ease of installation and operation, make this technology an extremely attractive option for odour abatement.



environment matters

Neutralox photoionisation uses UV light to generate oxidising agents, which ionize atoms and molecules to break down pollutants. Catalysts are used to assist with the oxidation of odorous substances.

Neutralox photoionisation is characterised by its high effectiveness and reliability. Low concentration odours can be treated as well as highly concentrated and varying odours. Low operation and maintenance demand supports the reliability of the treatment process.



The UV radiation generated by each Neutralox system is in the UVC wavelength band (220-290 nm) which possesses more photon energy, or electromagnetic radiation, than UVA or UVB (290-400 nm). This electromagnetic radiation, measured in eV, hits matter (in this case an odour compound) and transfers its energy to a neutral atom. This reaction results in the disassociation of our compound into an electrically charged particle or ion.

# NEUTRALOX®



# Trial Neutralox photoionisation units can be provided for on-site testing



Enva can provide Neutralox photoionisation trial units for hire for a short period of time, usually 2 weeks. This enables our clients to witness the odour reduction efficiency on their unique odours and confirm to all parties if a full-scale installation would be successful.

A trial unit consists of a number of individual movable modules which are interconnected at site. Each unit can be manoeuvred by one-two people. The pilot unit consists of a dust filter, UV chamber, catalyst, fan, and control panel. Housings are made of stainless steel (AISI 304).



## Specification

<b>Adjustable flow rate</b>	200 – 300 m <sup>3</sup> /hr
<b>Power supply</b>	Single phase, 230V, 50 Hz
<b>Power demand</b>	900 W
<b>Control functions</b>	Fan speed
<b>Air duct connections</b>	150mm diameter ducting inlet/outlet
<b>Optional analysis</b>	Continuous H <sub>2</sub> S by ODALOG Inlet: 0-1000 ppm, outlet: 0-200 ppm Grab sampling with detection tubes: <ul style="list-style-type: none"> <li>- Ammonia</li> <li>- Hydrogen sulphide</li> <li>- Dimethyl sulphide</li> <li>- Mercaptans</li> <li>- VOCs</li> </ul>
<b>Accessories included</b>	2 pieces of flexible aluminium ducting (max 3m)
<b>Weight of unit including catalyst</b>	Approximately 350 kg



Benefits of UV technology for exhaust air purification



Efficient & reliable



Low operating and maintenance costs



Plants can cope with all climates



Can be installed indoor or outdoor



Energy efficient

[enva.com](http://enva.com)



## Our business



38 facilities



1700 employees



£346m turnover

For further information please contact  
[info@enva.com](mailto:info@enva.com)

[enva.com](http://enva.com)