

## Ozone Diffusion Tube Instructions

### DIF300RTU-RA

**Shelf life:** This tube has a shelf life of 10 weeks from despatch. Tubes must be exposed and analysed within this period. Specific expiry date on package.

**Tube storage:** Tubes should be refrigerated before exposure. Do not exceed the shelf life. If using a blank tube, do not remove the tube from the screw top container. Store in the same conditions as the sampling tubes.

**Fixing tubes:** High readings may occur due to a breakdown of NO/NO<sub>2</sub> from solar irradiation when tubes are exposed in intense direct sunlight, so it is recommended that the tubes are exposed in the shade.

Certain surfaces may act as absorbers leading to reduced atmospheric concentrations immediately adjacent to the tube. For this reason tubes should not be mounted directly onto a surface. Ideally a spacer of at least 5cm should be used between the surface and the tube. The spacer should not be placed in any form of recess (to avoid the possibility of sampling stagnant air). To avoid sampling in an area of higher than usual turbulence, tubes should not be located on the corner of a building.

**Surface:** Ensure the surface is clean and dry before fixing the clips. When fixing to glass, clean glass with alcohol wipe and allow to dry before fixing. Adhesive takes 24 hours for full strength.



#### Exposure:

1. Remove tube from screw top container. Keep container in a safe place.
2. Position tube vertically with the **WHITE cap containing the filter facing downwards** during required sampling period (2-4 weeks).
3. **Label the tube (not the container, unless it is a blank) and the exposure sheet clearly with the supplied barcode labels (see below)**. After sampling and labelling put the tube back into the screw top container.
4. **Returning tubes:** Tubes should be returned as soon as possible after exposure. Fill in exposure sheet including **exposure time**. Tubes should be returned in a sealed container, such as the plastic bag that they are received in.

#### Return address:

Gradko International Ltd, St Martins House, 77 Wales Street, Winchester, Hampshire, SO23 0RH.

**Tel:** +44 (0) 1962 860 331

**Email:** [diffusion@gradko.com](mailto:diffusion@gradko.com) or [enquiries@gradkolab.com](mailto:enquiries@gradkolab.com)

## QR Barcoding for Tubes

On receiving your delivery, you should find enclosed:

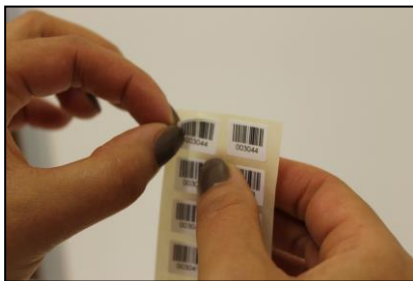
- A copy of an exposure sheet
- A strip of QR barcodes
- Your tubes

! **An electronic exposure sheet is available on the website at <http://www.gradko.com/environmental/environmental-resources/technical-resources/>**

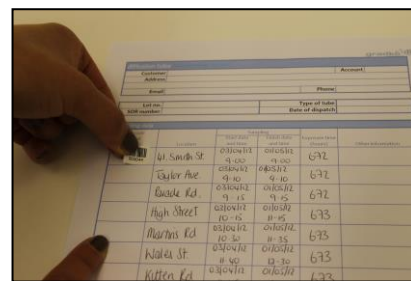


We recommend that you label your tubes (and sheets) at the point of placing the tubes on site.

Simply take the 1st of the duplicate labels (1.) and stick it to the appropriate location on the exposure sheet (2.) . If using the electronic exposure sheet, type the barcode number into the 'barcode' column instead of putting the sticker on the paperwork.



1.

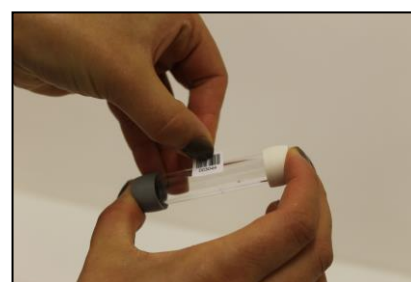


2.

Then take the 2nd matching label (3.) and stick it to the tube exposed at the same location (4.).



3.



4.



5.

Please take care to make sure the label is securely fixed to the tube (5.) .

These labels are treated to deal with the weather conditions.