

Nitrogen Dioxide Diffusion Tube Instructions

DIF100-20WA; DIF100-50AA

Shelf life: This tube has a shelf life of 12 weeks. Tubes must be exposed and returned for analysis within this period.

Tube storage: Tubes should be refrigerated before exposure and should not be subject to large variations in ambient temperature. Do not exceed the shelf life. If using blank tubes, do not remove the tube from the packaging. Store both tubes in the same conditions as the sampling tubes.

Fixing tubes: It is important that the end of the tube is in an area with a free circulation of air. 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 WHITE cap from the tube. Keep cap in a safe place. Do NOT remove the grey or red cap!
2. Position each tube vertically with the open end facing downwards during required sampling period (2-4 weeks).
3. After sampling, replace the WHITE cap on the tube. **Label the tube and the exposure sheet clearly with the supplied barcode labels (see below).**
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 or enquiries@gradkolab.com

QR Barcoding for Tubes

On receiving your delivery, you should find enclosed:

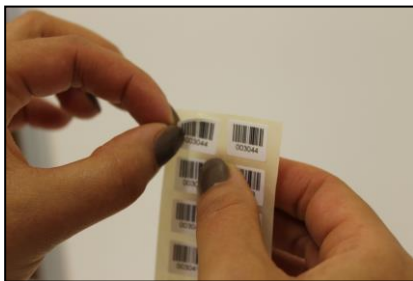
- A copy of an exposure sheet
- A strip of QR barcodes
- Your tubes

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

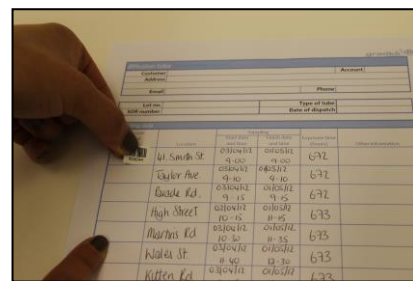


We recommend that you label your tubes (and sheets) at the point of placing the tubes on site.

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.

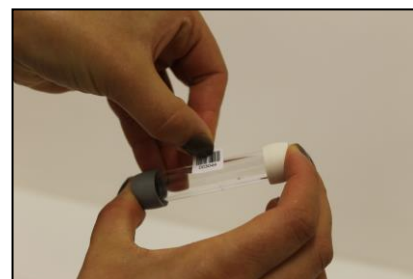


2.

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.