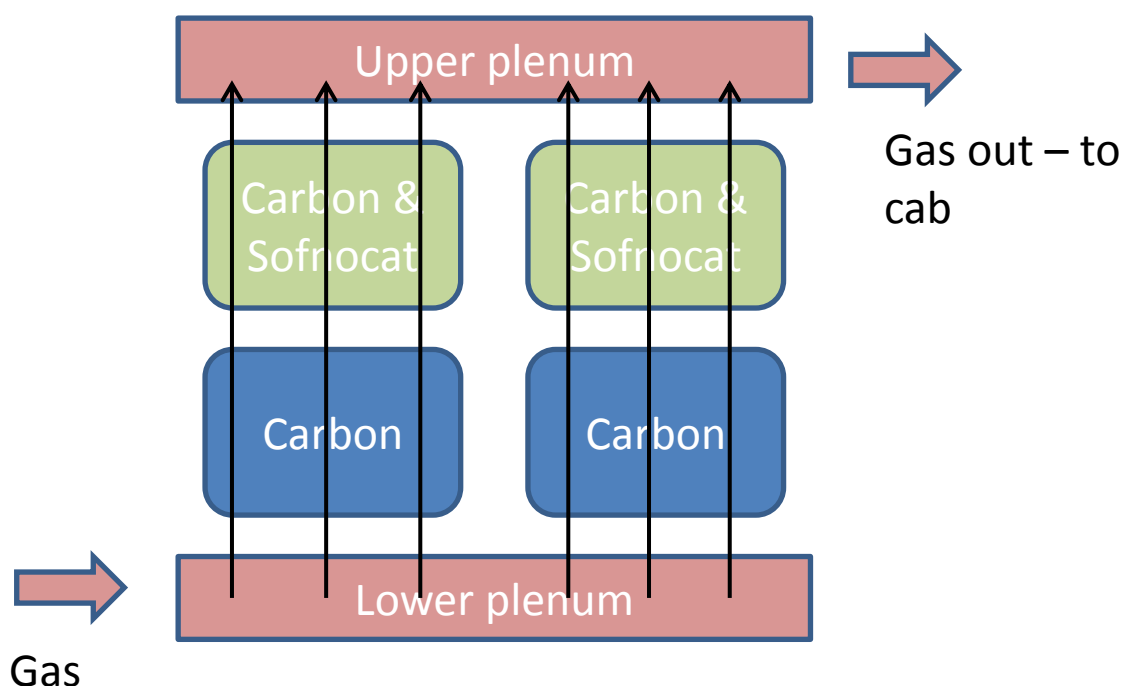


**INSTRUCTIONS FOR USE (IFU)**  
**HiCap absorbers for SO<sub>x</sub>, NO<sub>x</sub>, CO and odour control**

The articles are intended to be used as a kit with series HiCap stacked crates in parallel as shown in Figure 1. This allows the use of the correct amount of Sofnocat to provide the required reaction time to remove CO whilst using the carbon bed to protect it as long as possible by maximising the NO<sub>x</sub>, SO<sub>x</sub> and VOC removal capacity. Of course, this requires the carbon to be upstream of the Sofnocat in the absorber bed. It is assumed that plenum chambers will be used to provide equal gas flow into and out of the pairs of units and to ensure the gas flow is equally distributed across the absorbers cross section.

The diagram below shows the schematic layout and needs to be designed to allow the articles to be changed in the correct order to maintain the airflow & maximum removal capacity.

**Figure 1** – airflow schematic

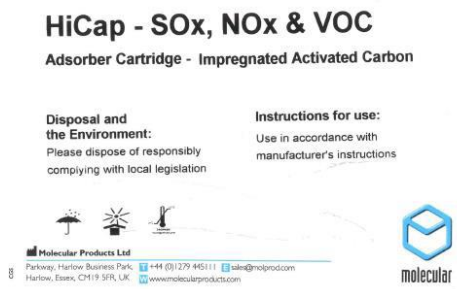


**Labels and markings:**

- The carbon only filled units are labelled as HiCap NO<sub>x</sub>, SO<sub>x</sub> and VOC articles in black lettering on a White background (1).
- The carbon plus Sofnocat filled units are marked as HiCap Plus labelling overprinted with black CO, NO<sub>x</sub>, SO<sub>x</sub> and VOC text on a white background label (2)

- The units are marked with arrow labels to denote the intended direction of the air flow through the units. (3)

(1)

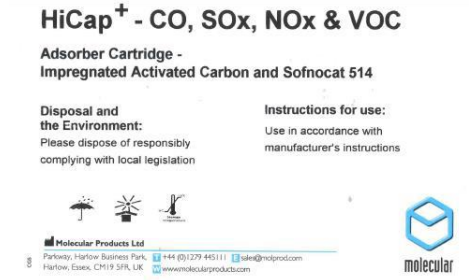


**Inlet or upstream unit label**

(3)

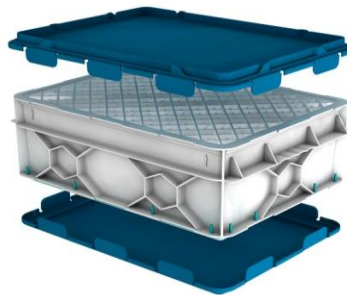


(2)



**Outlet or downstream unit label**

**User instructions:** *The units should be left sealed until ready for use.*



**Figure 2 – HiCap articles**

The units are labelled with the fill type on the outer packaging and on the crate units.

When ready to use: **HiCap articles (Figure 2)**

- 1. Pull the tabs outwards on both the top and base seals to remove the seals – the seals will break to act as tamper evident seals.**
- 2. The base of the cartridge unit retains a deformable seal to form a seal against the cut out shown below when the unit is in operation.**

When multiple units are used in series an interface spacer will be required between the units to form a seal.

## **Conditions of use and limit of liability – HiCap CO - large absorber cartridge**

- The units are designed to be used as part of a purpose built air purification system.
- **No liability or guarantee of performance can be accepted by MPL**
- For quality purposes the raw materials/ components used (i.e. Carbon & Sofnocat 514), based on our product TDS specification. MPL cannot guarantee overall performance or declare any operational limits.
- The units are supplied as security sealed units. The seals **must not be broken** until the unit is required for use as the unit can absorb water from the atmosphere that will slowly reduce its CO removal performance. If, the security seal is damaged the units should not be used.
- The overall performance of the units can be degraded, if left opened for extended periods in a moist environment. If the units are intended for intermittent use they should be resealed whilst stored between operational uses.
- The way that the units are used is the responsibility of the user and /or facility operator. It is strongly recommended that the facility operator should carry out a risk assessment of the way in which the unit(s) are to be used before they are deployed.

-----End-----

**Updated by Dr N Alam 24<sup>th</sup> October 2016**