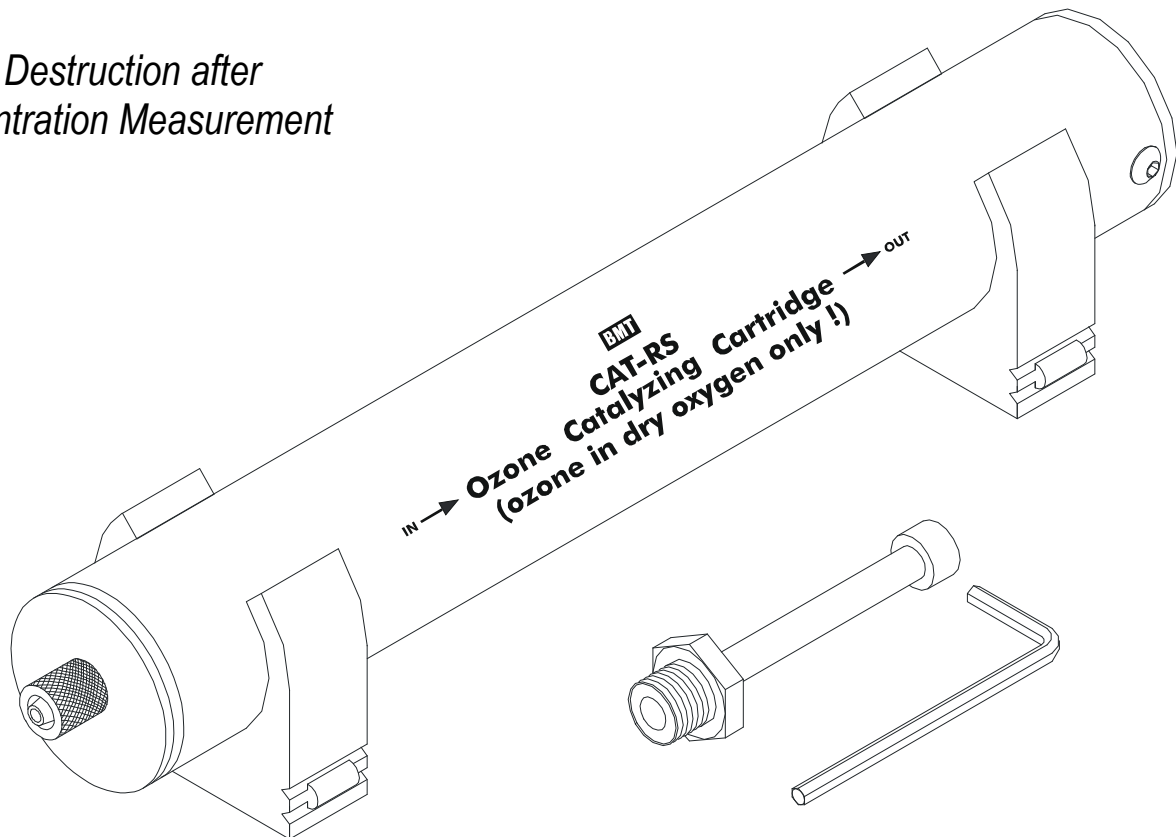


CATALYZING CARTRIDGE CAT-RS

Ozone Destruction after Concentration Measurement



FEATURES

- Refillable by the user
- SS orbital weld
- Fits any BMT ozone analyser
- Inlet fitting for 3x5mm PTFE tubing
- Small size: 30 mm OD x 200 mm long
- Particle filters at the inlet and the outlet
- Adjustable mounting clips included
- Flowrate up to 1 l/min at 300 g/m³ (15 W of heat power)

APPLICATIONS

- Destroying ozone after measurement
- Ozone in dry oxygen
- Ozone in dry air with low nitrogen oxide content

The CATALYZING CARTRIDGE CAT-RS is a small catalytic ozone destruct for destroying the ozone in sample gas leaving a BMT high concentration ozone analyser after measurement.

The cartridge is an stainless steel tube (30 mm OD, 200 mm long). It can be opened at the outlet side to replace the catalyst substance in case it had been poisoned or destroyed by some substance which inadvertently was contained in the ozone sample gas. Such substances are numerous. Fluid water is one of them. Others are nitrogen oxides, acids, halogens, and compounds containing sulfur, phosphorus, mercury, heavy metals.

The standard ozone catalyst substance filled into the CAT-RS is 100 ml of Carulite 200 G, the data and the Material Safety Data Sheet (MSDS) of which are available from the Carus Corp. website www.caruschem.com

The CAT-RS has particle filters at its inlet and outlet to retain any loose catalyst particles and dust.

Safe operation of the CAT-RS is restricted to ozone in dry oxygen. Operation with ozone in dry air usually presents no problems. But high nitrogen oxide concentration could destroy the catalyst. Dew point of the sample gas has to be at least 10 K lower than the ambient temperature around the CAT-RS.