CarbonylTrap

Gasflow

1 - 100 bar

>200 °C

Fields of Application

Removal of nickel carbonyls from CO flow

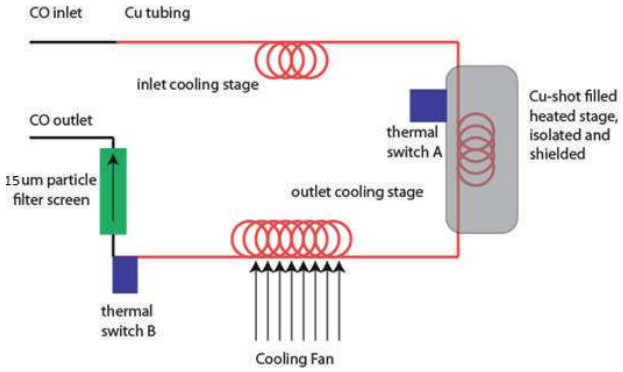
The LPM CarbonylTrap is designed to remove nickel carbonyls from a gas flow. This allows a CO flow to a catalytic reaction to be free of these impurities despite the carbonyls already present in the bottle or their formation in the tubing.

The CarbonylTrap has an optimal conversion using pure Cu-shots in Cu-tubing. This copper tubing of the high-temperature stage prevents the reformation of any nickel carbonyls.
The particle filter (15um) at the outlet flow of the CarbonylTrap avoids contamination of the system.

The standard Carbonyltrap is designed for pressures of 6 bar. However, we have also experience in making it compatible for pressures up to 100 bar.

Working Principle

The principle is straightforward: between the CO inlet flow and outlet flow an isolated and shielded heating stage removes the carbonyls by means of Cu-shots. Thermal switches and cooling stages control the temperature within the trap as well as the flow at the outlet. The addition of a 15 um particle filter avoids contamination of the system.



Specifications