



## Q-MACS RGC50

The Q-MACS reference gas cell (RGC) is a compact and robust solution for placing sealed reference gas probes in absorption spectroscopic setups. With its metallic body a reliable interface for the integration in fixed optical setups and a high flexibility to adapt the design on specific customer requirements could be ensured. Moreover, its very compact dimensions allow an efficient and accurate filling. A large variety of molecular gases is routinely filled with high purity into this cell.

With its features, the Q-MACS RGC is used in a wide range of laboratory and industrial applications.

Q-MACS RGC50 features:

compact and robust design - various path lengths available - small volume for efficient handling - refilling option by vacuum seal off valve - easy integration in existing optical setups



### general

description	compact gas cell with fixed filling for providing absorption signals as reference
dimensions	25 mm x 25 mm x 63 mm (L x H x D) [without valve] [other dimensions available on request]
weight	156 g

### mechanical interface

window material	potassium bromide (KBr), uncoated (other material on request)
cell body	stainless steel, FKM O-rings
volume	15.2 cm <sup>3</sup> (customized solution on request)
gas connectors	
pressure range	10-5 mbar to 1 bar
gas leak rate	<10 <sup>-9</sup> mbar <sup>*</sup> l/s

### optical interface

input hole diameter	17 mm
mirror diameter	50 mm
wavelength range	2 μm to 12 μm
coupling losses	<20 %
path length	50 m (customized solution on request)

### operating and storage conditions

operating temperature	15 °C to 25 °C
operating humidity	15 % to 75 % (rel.)
storage temperature	5 °C to 35 °C (rapid temperature changes to be avoided)
storage humidity	10 % to 100 % (rel.)