



HiQ® MAXICAN. A new sustainable, mobile, refillable packaging solution.



Challenge No matter what industry, a safe, secure and healthy working environment must be assured for all employees. Occupational safety presents its own particular challenges in industries that work with gases. Hazardous gases or vapors that leak – even in small volumes – can have far-reaching impacts on people's health and the environment. In addition, certain gases, dusts and vapors come with a risk of explosion.

Special mobile and fixed gas detectors are used to efficiently measure and safely assess the concentration of gases, dusts and vapors in the workplace at all times. Appropriate tests must be performed on these gas detectors at regular intervals to ensure they are functioning correctly. Various calibration gases and gas mixtures are required for this inspection process.

The gas cylinders used for these gas detector function tests often have to be carried over long distances – depending on the location of the detector. In addition, gas detectors are frequently installed in difficult-to-reach areas. Large gas cylinders are generally too cumbersome for these on-site and remote testing applications. Nonstationary applications thus call for handy, flexible solutions. Ideally, these should be refillable as empty cylinders are classified as hazardous waste in many countries and must be disposed of accordingly. A reusable yet portable package would eliminate the cost and effort involved in disposal while also contributing to climate and environmental protection.

Solution The new Linde HiQ® MAXICAN is the answer. It is lightweight and extremely easy to use. This aluminum cylinder can also be refilled, making it more sustainable than disposable options. Empty containers can be returned to Linde, where they are cleaned, checked and refilled according to a strict safety protocol. HiQ MAXICAN is equipped with the universal connection 5/8"-18 UNF. This is the most common international standard outlet and is compatible with fittings typically used. Please see below for approved pressure ratings.

HiQ MAXICAN is part of our wide portfolio of test gases in small, lightweight, portable and easy-to-use packaging solutions to simplify calibration and gas detector testing tasks in the field.

Technical data

Length (with valve)	approx. 380 mm
Outside diameter	approx. 89 mm
Water capacity	1.6 liters
Empty weight (with valve)	approx. 1.1 kg
Filling pressure (maximum)	69 bar
Gas volume (maximum)	110 liters

Product range

- Nitrogen 5.0
- Helium 5.0
- Hydrogen 5.0
- Synthetic air (hydrocarbon free)
- Gas mixtures for ambient air quality monitoring
- Gas mixtures for bump testing gas detection systems
- Gas mixtures for emission monitoring

Equipment

We offer a range of complementary equipment for HiQ MAXICAN. For gas mixtures with corrosive components, we recommend using stainless-steel fittings.

→ Single-stage regulator with pressure gauge and fixed flow rate

Standard pressure regulator with wheel for manual opening and closing of the gas outlet. The flow rate is fixed at 0.5 l/min. 3/16" outlet hose nozzle. Available in chrome-plated brass and stainless-steel versions.



→ Standard pressure regulator for devices with internal pump (flow on demand)

The pressure regulator opens automatically thanks to the suction of a pump. The flow rate is fixed at 0.5 l/min. 3/16" outlet hose nozzle. Available in chrome-plated brass and stainless-steel versions.



→ Standard pressure regulator with variable back-pressure

With this model, the desired back-pressure is freely adjustable between 0 and 75 psig (5.2 bar). 1/8" FNPT outlet. This model is only available in chrome-plated brass.



→ Standard pressure regulator with spray function (trigger)

By actuating the trigger, the gas can be sprayed onto the sensors of a gas measuring instrument for a short time. The volume flow is limited to 0.5 l/min. This model is only available in chrome-plated brass.



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