

# QuinGas™ General Information

**QUINGAS:** QuinTron's special calibrating gases are used to calibrate breath-trace analyzers. They are checked against a primary standard prepared gravimetrically with NBS (National Bureau of Standards) traceable weights. Each cylinder is analyzed individually, with an error no greater than  $\pm 0.05\%$  absolute or  $\pm 2$  parts per million (ppm) of any component, whichever is less. Standard mixtures for MicroLyzers are 100 ppm H<sub>2</sub>, 50 ppm CH<sub>4</sub>, and 5% CO<sub>2</sub> nominal, with the actual analysis listed on the cylinder. Standard mixtures for BreathTrackers are 150 ppm H<sub>2</sub>, 75 ppm CH<sub>4</sub>, and 6% CO<sub>2</sub> nominal, with the actual analysis listed on the cylinder.

On request, QuinGas can be supplied as custom dilutions of the standard mixtures.  
*(Special dilution and set-up charges apply for custom gases)*

QuinGas is provided in 1-liter totally disposable cylinders at ~250 pounds per square inch (psi) pressure. This is equal to ~17 liters of gas at atmospheric pressure. The cylinders have a regulating valve with a Luer-taper fitting, so they mate with a standard syringe for transferring the sample to the instrument. The valve is controlled with your hand for easy and safe operation.

**QUINGAS TANK STAND:** The QuinGas Tank Stand is an acrylic table-top stand designed to hold a cylinder(s) of QuinGas and some relevant supplies, like a syringe, the QuinTron screwdriver, valve removal tool, pencils, etc. Its use prevents the cylinder from rolling off the table, and keeps the area neat and orderly. These stands also have skid-proof, mar-proof rubber feet on the acrylic frame. The United States Occupational Safety and Health Administration (OSHA) requires the use of some type of securement for compressed air gas tanks, including QuinGas tanks.

**QUINGAUGE (PRESSURE GAUGE):** Used to measure the pressure in the QuinGas cylinder before it is empty, to indicate when a replacement cylinder should be ordered.



## SUPPLY ORDERING INFORMATION:

Catalog #: QT07006-G - QuinGas Safety Tank Stand (holds three (3) tanks)

Catalog #: QT07008-G - QuinGauge (Pressure Gauge)

Catalog #: QT02592 - QuinGas Valve Removal Tool (For Safe Disposal of QuinGas Tanks)



## BREATHTRACKER STANDARD CALIBRATING GASES ORDERING INFORMATION:

Catalog #: QT07210-G - QuinGas-1, 150ppm H<sub>2</sub> (BreathTracker H2)

Catalog #: QT07220-G - QuinGas-2, 150ppm H<sub>2</sub>, 75ppm CH<sub>4</sub> (BreathTracker DP)

Catalog #: QT07225-G - QuinGas-2, 150ppm H<sub>2</sub>, 6% CO<sub>2</sub> (BreathTracker H2+)

Catalog #: QT07230-G - QuinGas-3, 150ppm H<sub>2</sub>, 75ppm CH<sub>4</sub>, 6% CO<sub>2</sub> (BreathTracker SC)

## MICROLYZER STANDARD CALIBRATING GASES ORDERING INFORMATION:

Catalog #: QT07011-G - QuinGas-1, 100ppm H<sub>2</sub> (MicroLyzer CM Series, 12i Series)

Catalog #: QT07021-G - QuinGas-2, 100ppm H<sub>2</sub>, 50ppm CH<sub>4</sub> (MicroLyzer DP Series)

Catalog #: QT07031-G - QuinGas-3, 100ppm H<sub>2</sub>, 50ppm CH<sub>4</sub>, 5% CO<sub>2</sub> (MicroLyzer SC)



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# QuinGas™ Proper Use and Disposal

## PROPER USE:

The QuinGas transfer valve is used to remove calibration gas from the QuinGas cylinder for analysis in your BreathTracker breath-testing instrument.

1. Attach a 1-way stopcock to an approved QuinTron syringe.
2. Insert the blue transfer valve into the threaded opening on the top of the QuinGas cylinder. (Figure 1a) **DO NOT PUSH DOWN ON THE TRANSFER VALVE YET!**
3. Insert the syringe with stopcock into the small opening on the transfer valve. (Figure 2a) **MAKE SURE THAT THE STOPCOCK IS OPEN.**
4. **GENTLY** press down on the transfer valve to fill the syringe with at least 20 mL of calibration gas.
5. Close the stopcock and remove the syringe with stopcock. (Figure 3a)

The transfer valve should also be removed from the top of the QuinGas cylinder when not in use.

**FAILURE TO REMOVE THE TRANSFER VALVE WHEN NOT IN USE MAY LEAD TO LOSS OF CALIBRATION GAS.**

*Press down gently and slowly, make sure that your stopcock is open when applying pressure to the blue transfer valve.*



Figure 1a



Figure 2a



Figure 3a

*Be sure to stop applying pressure and close the stopcock before removing the syringe from the blue transfer valve.*

## DISPOSAL:

This tank disposal tool is used to release the remaining gas in the QuinGas cylinder for safe disposal.

1. Insert the valve removal tool into the threaded top of the tank.
2. Wiggle the tool until it catches the valve stem.
3. Twist the tool to the counter-clockwise 10 times to loosen the valve.  
*The cylinder valve does not need to be removed.*
4. Recycle cylinder. **Do not dispose of your valve tool.**

**Tank Disposal Tool - Catalog Number - QT02592**



Varying local regulations exist across the country regarding recycling and what may or may not be acceptable for land-fill sites. The best thing is to recycle the cylinders so the metals can be reclaimed, but this may not be practical for your office. You will need to contact your local waste management company for more specific instructions if you require them. **Always disengage the valve for safe disposal.**