

INFICON 3000 Micro GC

Installation Checklist

To properly install the 3000 Micro GC, please consider the following items before the 3000 Micro GC installation service is delivered.

Carrier Gas

-Recommend carrier gas (e.g., Helium, Argon) purity of 99.9995%, minimum 99.995% if appropriate carrier gas trap is installed. Consult with INFICON for your specific instrument requirements.

NOTE: A 2 channel 3000 Micro GC tank will last at least one year, application dependent.

-Dual Stage Regulator (CGA 580) for each carrier gas(s). Must be capable of delivering 80-82 PSI to the 3000 Micro GC. Regulator outlet fitting must be adapted to Swagelok® in order to connect tubing. Use 1/8" fittings or 1/8" adapters.
-Carrier Gas moisture/hydrocarbon filter (INFICON Part Number G2870A-01). These are recommended for use with Molecular Sieve and Alumina Modules.

Tubing and Fittings

-Copper or stainless steel (pre-cleaned) 1/8" OD for carrier gas connections between tank regulator and 3000 Micro GC. 3000 Micro GC has a 1/8" Swagelok male carrier gas connection.

NOTE: Pre-cleaned "GC" grade copper tubing in 50 ft. lengths is included in INFICON 3000 Micro GC install kit G2860A or can be purchased from various chromatography vendors.

NOTE: We do not recommend cleaning tubing with a solvent prior to use.

NOTE: Do not use Teflon® or Tygon® tubing for the carrier gas.

NOTE: Collection of male/female Swagelok fittings for regulator, tubing, etc. This includes nuts, front and back ferrules. Typical size is 1/8". Some 1/4" - 1/8" adapters may be needed if 1/4" tubing is used.

Calibration Gas

-It is recommended that the user purchase an ample supply of calibration gas that is specific to the analysis needs from a commercial gas vendor.

NOTE: Please consider delivery time when purchasing a calibration gas so that it can be available at the time of installation.

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Calibration Gas (continued)

NOTE: For the most accurate measurements, users should calibrate with a gas that most closely resembles the actual sample gas composition.

NOTE: Any checkout gas mixtures supplied by INFICON are for instrument installation and start-up needs only.

Sample Gas Pressure Range

Introducing high pressure sample gas without proper pressure reduction may damage the 3000 Micro GC. The following table lists the various connections and a recommended pressure range. Do not connect a gas or sample supply above 30 PSI directly to the sample inlet.

Sample conditioner	1,2-channel	3,4-channel	Portable	Pressure input
Direct connection to external filter assembly with tedlar bag, gas tight syringe, sampling bottle, or tank.		G2801-60900		ambient to 30 PSI
Gas-liquid separator		G2817A		10 to 50 PSIG
Pressure reducer		G2815A		50 to 1000 PSIG
Gas-liquid separator and pressure reducer		G2816A		< 500 PSIG
Heated regulator for sampling	G2818A-[X]	G2845A-[X]	G2857A-[X]	2 to 800 PSIG
Heated vaporizer for LPG sampling	G2819A-[X]	G2846A-[X]	G2858A-[X]	200 to 800 PSIG

Note: [X] represent the country power cord option. For example, a heated regulator for Portable with US power cord will have IPN: G2857A-3

Ample Bench Space

-The 3000 Micro GC should be installed in a location which allows easy access to the instrument and laptop/PC.

3000 Micro BC Dimension H x W x D

1-2-channel: 5.9" x 9.8" x 16.1" (15 cm x 25 cm x 41 cm)

3-4-channel: 6.1" x 18.5" x 16.5" (15.5 cm x 47.2 cm x 42 cm)

Portable: 6.1" x 14.3" x 16.3" (15.5 cm x 36.4 cm x 41.3 cm)

Electricity

-Standard 100~240 V (ac) electric outlet—no special requirements.
-Uninterruptible power supply/surge protector recommended.

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Tools (at a minimum)

NOTE: The following tools are customer provided. They are included in the optional Install Kit for Micro GC, INFICON Part Number G2860A .

-Adjustable wrench (large)
-Adjustable wrench (small)
-7/16", 5/16" and 1/4" open end wrench
-Tubing cutter
-Teflon tape

Computer

-PC or Laptop with Microsoft® operation systems

NOTE: XP Pro with SP3 and .Net 3.0 and 3.5SP1 OR
Windows Vista® business SP1

NOTE: Dual core 2 Ghz CPU, 2 GB RAM, >10 GB free space

NOTE: Network card for connection to 3000 Micro GC (TCP/IP)

-If the instrument is to connect to corporate network, have corresponding IT personnel available during install.

