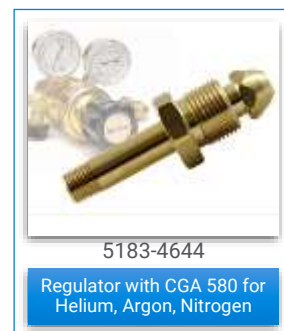
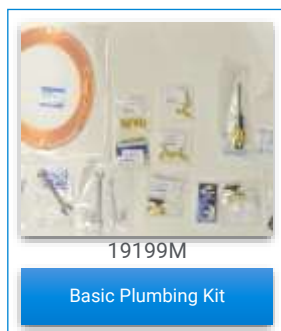
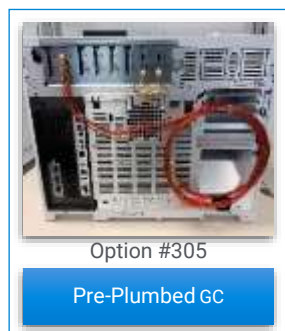


When purchasing an Agilent GC or GCMS, many items are not included in the instrument specific ship kits that are necessary and required for the installation to be completed successfully. They are part of site readiness and discussed in the site preparation documentation.

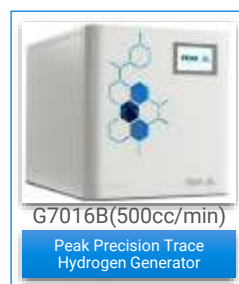
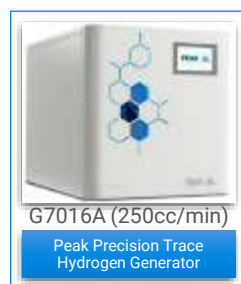
These are the bare minimum supplies typically needed to install a GC or GCMS system. Regulators and plumbing supplies will be dependent on the instrument configuration, detectors purchased, and gas types.



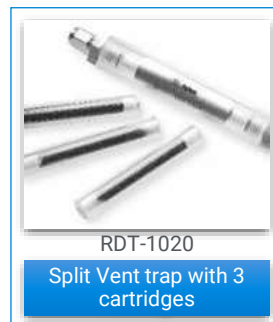
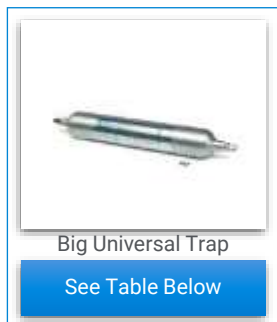
Recommend supplies when running with hydrogen carrier gas.

Agilent now sells Peak Hydrogen generators. These can take the place of tanks of hydrogen at the laboratory. They can be used to supply hydrogen carrier or to a GC flame ionization detector (FID) or flame photometric detector (FPD).

For GCMS systems not purchased with the Hydrolnert Ion Source, a larger orifice extractor or drawout lens should be installed in the ion source when used with hydrogen carrier gas. (He to H₂ Carrier gas conversion guide link below)



Additional items that would be nice to have.



Big Universal Traps

Parts Number	Description
RMSH-2	Big universal trap, Helium, 1/8 in, 250 psig
RMSHY-2	Big universal trap, Hydrogen, 1/8 in, 250 psig
RMSN-2	Big universal trap, Nitrogen, 1/8 in, 250 psig

When used in line with Gas Clean Filters they add additional capacity. Traps are always recommended, whether it's the Gas Clean or Big Universal Trap. With a GC detector like the μ ECD it is required for peak performance. Kit 19199N includes (1 Oxygen, 1 moisture, and 2 hydrocarbon Gas Clean Filter).

Which rough pump should be on the order?

Oil Bath Pump: The oil must be changed often. It is recommended to be done at least twice per year. The failure mode is usually an oil leak. Oil bath rotary vane rough pumps rarely have vacuum issues. They last a long time. They can be used with all gases.

SQ – Pfeiffer Duo 3.0 **TQ** – Edwards RV5 **QTOF** – Agilent DS202

Dry Scroll Pump: The scroll tip seals must be changed at least once per year or more. They are quiet. The failure mode is slow degradation of vacuum as the tip seals wear out. There is no oil to replace, so less laboratory waste disposal. Dry scroll pumps can be used with all gases except for ammonia chemical ionization reagent gas.

SQ – Agilent IDP-3 **TQ** – Agilent IDP-10 **QTOF** – Agilent IDP-15

Diaphragm Pump: There is essentially no maintenance, just keeping the cooling fan clean. When it fails the entire pump is replaced. They are quiet. The failure mode is an internal leak or failure of one of the four diaphragms. Diaphragm pumps can be used for all gases except for ammonia chemical ionization reagent gas which would require the MVP-070-C Corrosion resistant version.

SQ – Pfeiffer MVP-070 or Pfeiffer MVP-070-C – Only necessary for corrosive gases

TQ and **QTOF** – No diaphragm pump available

Rough Pump Exhaust Venting

Rough pump exhaust:

Agilent recommends that all GC/MS system foreline pump exhausts are vented outside of the laboratory environment.

G3170-80006 3/8" male **BSP** to 3/8" barb fitting.
Replaces oil mist filter on Duo 2.5 and Replaces
silencer on IDP-3



IDP-3 Dry Scroll
Rough Pump



Pfeiffer oil rough pump



MVP-070-3 Diaphragm
Rough Pump

G3170-80029
Fitting and seal



Rough pump exhaust: 7000x/7010x

Agilent recommends that all GC/MS system foreline pump exhausts are vented outside of the laboratory environment.



Oil mist filter mounted on Edwards RV5 pump

This NW25 to 5/8" fitting is included with the RV5 pump to adapt either the rough pump exhaust directly, if running Chemical Ionization or corrosive samples that could damage the mist filter, or to vent the exhaust after the oil mist filter.



IDP-10 Dry Scroll Rough Pump

A vent line may be attached in place of the silencer.

An Exhaust silencer is attached to the NW16 fitting on an IDP-10 dry scroll rough pump. A vent line may be attached in place of the silencer.

Not included with IDP-10:
G1099-20531 KF16 Hose adapter
KC16AV KF16 O-Ring
0100-1397 NW10/16 Clamping Ring



Rough pump exhaust: 7200x/7250x

Agilent recommends that all GC/MS system foreline pump exhausts are vented outside of the laboratory environment.



DS202 rough pump

DS202 rough pump oil mist filter



This NW25 to 5/8" fitting is included with the DS202 pump to adapt either the exhaust directly, if running Chemical Ionization or corrosive samples that could damage the mist filter, or to vent the exhaust after the oil mist filter.



IDP-15 Dry Scroll Rough Pump

An Exhaust silencer is attached to the NW16 fitting on an IDP-15 dry scroll rough pump. A vent line may be attached in place of the silencer.

Not included with IDP-15:
G1099-20531 KF16 Hose adapter
KC16AV KF16 O-Ring
0100-1397 NW10/16 Clamping Ring



Rough pump exhaust:

A 6 meter (20ft.) length of 3/8 inch i.d. PVC/vinyl tubing is available for venting the foreline pump exhaust. It should be cut to length for the location of the instrument and not exceed 20 feet. The foreline pump exhaust should not be shared with exhaust tubing from another instrument. Separate 3/8 inch hose barbs are required to connect the tubing to the exhaust vent.

- Agilent sells the tubing and clamps:
 - ✓ G3170-60100 20' of 3/8" tubing.
 - ✓ 1400-1234 hose clamp
- Make sure that there are:
 - ✓ No restrictions, no kinks, Very few sharp radius bends, and no low spots where oil could pool.

No additional traps should be added after the supplied mist filters.



Links for Customers

Agilent.com links

[GC Productivity Roadmap](#)

[Top Supplies To Optimize Your 8890 GC Workflow \(agilent.com\)](#)

[5990-8819EN_5973_5975_5977_Supplies_ORG.pdf](#)

[Discover the Possibilities with GC/MS solutions | Agilent](#)

[Agilent EI GC/MS Instrument Helium to Hydrogen Carrier Gas Conversion](#)

Agilent University:

[GC-0GEN-1001e - Gas Management Best Practices](#)

[GC-8890-1201e - Getting Prepared for Your New GC System](#)

[GC-9000-1201e - Preparing for Your New Agilent Intuvo 9000 GC](#)

Items Included in Kits

Material Document General					
Item	ICt	Component	Component description	Quantity	Un
<input type="checkbox"/> 0030 L		5080-8750	Fittings 1/8inch Brass 20'	1	PK
<input type="checkbox"/> 0040 L		5180-4121	Cap, 1/8inch Brass, 6/Pk	1	PK
<input type="checkbox"/> 0050 L		5180-4160	Tee, 1/8inch Brass Union	2	PK
<input type="checkbox"/> 0060 L		5180-4196	1/8in x .065in Copper Tu	1	EA
<input type="checkbox"/> 0190 L		0100-2144	1/8inch Ball Valve	2	EA
<input type="checkbox"/> 0200 L		5182-3456	GC Install Kit with Tools	1	EA
<input type="checkbox"/> 0210 L		9300-0311	Leak detector 8oz	1	EA

19199M Install Kit for GCs w/out Gas Purifiers

Material Document General					
Item	ICt	Component	Component description	Quantity	Un
<input type="checkbox"/> 0030 L		5080-8750	Fittings 1/8inch Brass 20'	1	PK
<input type="checkbox"/> 0040 L		5180-4121	Cap, 1/8inch Brass, 6/Pk	1	PK
<input type="checkbox"/> 0050 L		5180-4160	Tee, 1/8inch Brass Union	2	PK
<input type="checkbox"/> 0060 L		5180-4196	1/8in x .065in Copper Tu	1	EA
<input type="checkbox"/> 0140 L		8710-1709	Cutter, tube	1	EA
<input type="checkbox"/> 0160 L		9300-0311	Leak detector 8oz	1	EA
<input type="checkbox"/> 0250 L		CP736530	Gas Clean Filter FID Kit 1	1	EA
<input type="checkbox"/> 0290 L		80T-1020	Trap, Split/Vent and 3 PK	1	EA
<input type="checkbox"/> 0300 L		0100-2144	1/8inch Ball Valve	2	EA

19199N Install Kit for GCs w/Gas Purifiers

Material Document General					
Item	ICt	Component	Component description	Quantity	Un
<input type="checkbox"/> 0010 L		0100-0542	TEE, 1/8 SS	1	EA
<input type="checkbox"/> 0020 L		0101-1028	1/8 Ball Valve	1	EA
<input type="checkbox"/> 0030 L		5080-8751	Fittings, 1/8in stainless ste	1	PK
<input type="checkbox"/> 0040 L		5182-3456	GC Install Kit with Tools	1	EA
<input type="checkbox"/> 0050 L		7157-0210	Stainless Steel Tubing, 1/	1	EA
<input type="checkbox"/> 0060 L		RMSH-2-SS	Big Universal Trap, SS 1/	1	EA

19199S Install Kit for GCs, Stainless Steel

Material Document General					
Item	ICt	Component	Component description	Quantity	Un
<input type="checkbox"/> 0010 L		1420-0940	Battery AA Alkaline-Zn-M	3	EA
<input type="checkbox"/> 0040 L		8121-2820	Cable-Assembly USB-A	1	EA
<input type="checkbox"/> 0050 L		G6691-40500	ADM Flow Meter Case	1	EA
<input type="checkbox"/> 0060 L		G6691-60500	Flow Meter Mainframe As	1	EA
<input type="checkbox"/> 0070 L		G6691-90005	ADM Flow Meter Quick S	1	EA
<input type="checkbox"/> 0080 L		G6691-90030	ADM Flow Meter DOC	1	EA
<input type="checkbox"/> 0090 L		G6692-60500	Flow Meter Cartridge Ass	1	EA
<input type="checkbox"/> 0120 L		G6694-64000	Electronic Leak Detector	1	EA
<input type="checkbox"/> 0130 L		G6695-98050	Bundle Assy	1	EA
<input type="checkbox"/> 0150 L		K9010-00055	PACKAGE SET,PRINTER,	1	EA
<input type="checkbox"/> 0160 L		9320-6682	RoHS Addendum for Han	1	EA
<input type="checkbox"/> 0170 L		G6693-90040	UK DOC for Electronic Le	1	EA
<input type="checkbox"/> 0180 L		G6691-90040	UK DOC for ADM Flowm	1	EA
<input type="checkbox"/> 0190 L		G6693-90030	EU DOC for Electronic Le	1	EA

G6699A CrossLab CS Bundle: ADM Flow Meter and Electronic Leak Detector