

Agilent technical experts have compiled a list of recommended supplies that you should consider using with your new instrument in order to keep your lab operational without any disruptions and to achieve optimal performance.

8890 Gas Chromatography (GC) System with 7693A Automatic Liquid Sampler

Automatic liquid sampler

- **5181-1267**: Syringe, 10 μ L Tapered, FN 23-26s/42/HP
- **07673-40180**: Diffusion Caps for 4 mL Vials, 12/pk

Inlet

- **5183-4757**: Septa Non-Stick BTO Inlet 11 mm, 50/pk
💡 (Top Recommendation)
- **5188-5365**: Liner O-Ring, Non-Stick, 10/pk
- **5190-3165**: Inlet liner, Ultra Inert, Split, Low Pressure Drop, Glass Wool, 5/pk
- **5062-3514**: Ferrule, 0.5 mm id, 15% Graphite/85% Vespel, 0.32 mm Column, 10/pk
- **G3440-81011**: Column Nut, Collared, Self-Tightening, Inlet/Detector
💡 (Top Recommendation)
- **5190-6145**: Gold Plated Inlet Seal with Washer, Ultra Inert, 10/pk






Gas management

- **RDT-1020**: Trap, Split Vent and 3 Cartridges
- **G6699A**: CrossLab CS Bundle (ADM Flow Meter and Electronic Leak Detector)
💡 (Top Recommendation)

Detector

- **5200-0176**: FID Jet, Universal Fit, 0.011 inch ID
- **G3440-81011**: Column Nut, Collared, Self-Tightening, Inlet/Detector
💡 (Top Recommendation)
- **5062-3514**: Ferrule, 0.5 mm id, 15% Graphite/85% Vespel, 0.32 mm Column, 10/pk

General GC (8890/8860 GC) workflow supplies recommendations


Part Number	Description	Recommended Quantity	Reason to Use	Part Family
G3440-81011	Self-Tightening Column nut, Collared, Inlet/Detector	2 (1 for inlet and 1 for detector)	This column nut features a self-driving piston that helps maintain a consistent pressure against the capillary column ferrule, improving baseline performance by eliminating the need to routinely retighten the nut. Compatible with Agilent "Short" Polyimide/Graphite Ferrules  (Top Recommendation)	Column nuts 
G3440-81018	Winged Column nut, Collared, Inlet/Detector	2 (1 for inlet and 1 for detector)	Standard column nut with compression collar and finger-tight design. Compatible with all Agilent ferrule types and suitable for high-temperature analysis. Does not offer Self-Tightening feature	Column nuts 
G3440-88000	Capillary Column Depth Guide	1	Provides critical depth measurements for capillary column installation, compatible with Agilent Self-Tightening and Winged Column Nuts  (Top Recommendation)	Column Installation Tool 
5200-0176	FID Jet, Universal fit, 0.011 inch ID	1	Our universal jets are designed for capillary and packed column compatibility. They are designed to prevent thread galling and enhance ease of installation	FID jet 
5190-6145	GC Inlet seal, Gold plated, with Washer, Ultra Inert, 10/pk	1	Agilent Gold Seals help to eliminate microleaks from negatively impacting instrument performance. Inlet seals are required for S/SL injection ports. This part includes 10 packs of PN 5190-6144	Gold seal 
5181-1267	Syringe, 10 µL Tapered, FN 23-26s/42/HP	1	Agilent Gold Standard syringe with fitted stainless-steel plunger for routine GC analysis of liquid samples	Syringes 
5183-4757	Septa Non-Stick BTO Inlet 11 mm, 50/pk	1	BTO septa are optimized to reduce septum bleed at a higher range of temperatures, maximum inlet temperature can be 400 °C	Septa 
5190-3165	Inlet liner, Ultra Inert, Split, Low Pressure Drop, Glass Wool, 5/pk	1	General use liner that provides high performance for varying applications. This part includes 5 packs of PN 5190-2295	Inlet liners 
5190-3163	Inlet liner, Ultra Inert, Splitless, Single Taper, Glass Wool, 5/pk	1	General use liner for splitless mode. This part includes 5 packs of PN 5190-2293  (Top Recommendation)	Inlet liners 
5188-5365	Liner O-Ring, Non-Stick Fluorocarbon, 10/pk	1	Required to make inlet/detector leak-free connections, especially for MSD	Liner O-Rings 
5062-3514	Ferrule, 0.5 mm id, 15% Graphite/85% Vespel, 0.32 mm Column, 10/pk	1	Standard ferrule to make inlet/detector connections. Additional sized ferrules available depending on columns required	Ferrules 
G2855-28502	CFT Ferrule, Flex Gold, 0.32 mm ID Col., 10/pk	1	Gold-plated flexible metal ferrules for use with Agilent Capillary Flow Technology (CFT) connections, and the different-sized ferrules depending on columns required. Gold plating offers greater sealing performance than standard Ultimet ferrules	CFT Ferrules 
07673-40180	Diffusion Caps for 4 mL Vials, 12/pk	1	This helps prevent solvent from evaporating while sitting in the vial in the autosampler tray	Diffusion Caps for Wash Vials 
RDT-1020	Trap, Split Vent and 3 Cartridges	1	A convenient gas management kit	Gas Management 
G6699A	CrossLab CS Bundle (ADM Flow Meter and Electronic Leak Detector)	1	The cartridge design combines the two most critical GC flow path monitoring tasks, including flow rate and leak detection monitoring, into a single hand-held system with the bundle offering. G6691A CrossLab CS ADM Flow Meter and G6693A CrossLab CS Electronic Leak Detector are also available separately	Gas Management 

Find your suitable selection: www.agilent.com/search/gn/gc-ferrule-selector



www.agilent.com/search/gn/gc-liner-selector

8890 Gas Chromatography (GC)/7000D Triple Quadrupole GC/MS Systems with 7693A Automatic Liquid Sampler


Automatic liquid sampler

- **G4513-80204**: Syringe, Blue Line, 10 μ L, Fixed Needle, 23-26s/42/Cone  (Top Recommendation)
- **07673-40180**: Diffusion Caps for 4 mL Vials, 12/pk

Gas management

- **CP17973**: Carrier Gas Clean Filter
- **RMSH-2**: Big Universal Trap, Helium, 1/8 in, 250 psig  (Top Recommendation)
- **G6699A**: CrossLab CS Bundle (ADM Flow Meter and Electronic Leak Detector)  (Top Recommendation)


7000D QQQ MSD

- **G3440-81013**: Column Nut, Collared, Self-Tightening, MSD Transfer Line  (Top Recommendation)
- **5181-3323**: Ferrule, 0.4 mm id, 15% Graphite/85% Vespel, 0.1 to 0.25 mm Column, 10/pk
- **G2589-20100**: Drawout Plate, 3 mm, for Inert Source
- **G7005-60061**: Filament, High Temperature, EI Ion Source



Rough Pump Consumables and Tools

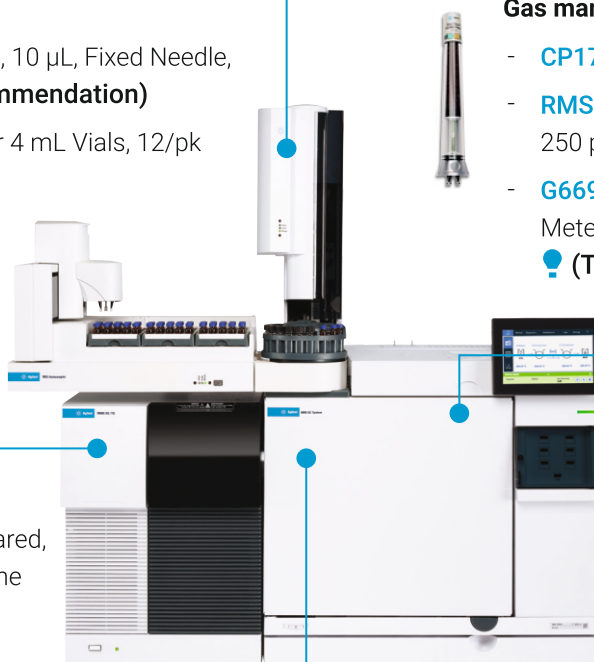
- **5191-5851**: AVF 45 Platinum, 1 Liter
- **G7004-67026**: Tip Seal Kit, IDP-10, Includes Tip Seals, Tools, Cloth, Swab, Face Mask, Nylon Gloves, Filter Element, and a Manual

8890 GC non-MSD detector


















- **5200-0176**: FID Jet, Universal Fit, 0.011 inch ID
- **G3440-81011**: Column Nut, Collared, Self-Tightening, Inlet/Detector  (Top Recommendation)
- **5062-3514**: Ferrule, 0.5 mm id, 15% Graphite/85% Vespel, 0.32 mm Column, 10/pk

8890 GC inlet







- **5183-4757**: Septa Non-Stick BTO Inlet 11 mm 50/pk  (Top Recommendation)
- **5188-5365**: Liner O-Ring, Non-Stick 10/pk
- **5190-5112-005**: Splitless, UI, Fritted Liner, Low, 870 μ L, 4 mm, 5/pk
- **G3440-81011**: Column Nut, Collared, Self-Tightening, Inlet/Detector  (Top Recommendation)
- **5190-6145**: Gold Plated Inlet Seal with Washer, Ultra Inert, 10/pk



General GC/MS (5977B/5977C/7000D/7010B/7000E) workflow supplies recommendations

Part Number	Description	Recommended Quantity	Reason to Use	Part Family	
G3440-81013	Self-Tightening Column Nut, Collared, MSD Transfer Line	1	This column nut features a self-driving piston that helps maintain a consistent pressure against the capillary column ferrule, improving baseline performance by eliminating the need to routinely retighten the nut. Compatible with Agilent "Short" Polyimide/Graphite Ferrules  (Top Recommendation)	Column nuts	
G3440-81019	Winged Column Nut, Collared, MSD	1	Standard column nut with compression collar and finger-tight design. Compatible with all Agilent ferrule types and suitable for high-temperature analysis. Does not offer Self-Tightening feature	Column nuts	
G1099-20030	Column Installation Tool for Single/Triple Quad MSDs (SQ/TQ)	1	Provides critical depth measurements for transfer line installation, easy to install without opening the MSD side-cover	Column Installation Tool	
G4513-80204	Syringe, Blue Line, 10 µL, Fixed Needle, 23-26s/42/Cone	1	Agilent Blue Line syringe with fitted stainless-steel plunger offering greater performance for high sensitivity analysis  (Top Recommendation)	Syringes	
5190-5112-005	Splitless, UI, Fritted Liner, Low, 870 µL, 4 mm, 5/pk	1	Equivalent to Agilent's 2293 Ultra-Inert Low Wool Liner. Agilent's Glass Fritted Liners offer greater longevity and reproducibility compared to conventional glass-wool packed liners. This liner is optimal for splitless injection of complex sample matrices	Inlet Liners	
5181-3323	Ferrule, 0.4 mm id, 15% Graphite/85%Vespel, 0.1 to 0.25 mm Column, 10/pk	1	Required to make inlet/detector connections, especially for MSD. Additional sized ferrules available depending on columns required	Ferrules	
G3870-20444	Lens, Extraction, 3 mm, for 5977	1	Commonly used for 5977.6 and 9 mm lens are also available for selected applications	Lens	
G2589-20100	Drawout Plate, 3 mm, for Inert Source	1	Commonly used for Inert Source. 6 and 9 mm lens are also available for selected applications	Lens	
G7005-60061	Filament, High Temperature, EI Ion Source	2	5977, 5975, 7000 MS filament. For non-HES sources (5977A or B - InertPlus, Inert, Extractor, stainless steel, 5975, or 5973)	Filament	
G7002-60001	High Efficiency Source Filaments	1	Only for 5977B High Efficiency Source HES and 7010B High efficiency source MS systems	Filament	
CP17973	Carrier Gas Clean Filter	1	GC/MS requires clean carrier gas for ideal operation (has indicators)	Gas Management	
RMSH-2	Big Universal Trap, Helium, 1/8 inch, 250 psig	1	Large capacity filter (but doesn't have indicator)  (Top Recommendation)	Gas Management	
5191-5851	AVF 45 Platinum, 1 Liter	1	Oil for rough pump maintenance (for oil pumps only)	Rough Pump Consumables (related to MSDs)	
G7004-67026	Tip Seal Kit, IDP-10, Includes Tip Seals, Tools, Cloth, Swab, Face Mask, Nylon Gloves, Filter Element, and a Manual	1	For IDP-10 (dry) scroll pumps only (usually sold with Triple quad MSDs)	Rough Pump Consumables (related to MSDs)	
G7077-67018	IDP-3 Tip Seal Maintenance Kit, Includes Tip Seal, Silencer Filter Element, Face Mask, Lint-free Cloth, Gloves, and Hex Keys	1	For IDP-3 (dry) scroll pumps only (usually sold with single quad MSDs)	Rough Pump Consumables (related to MSDs)	

HydroInert-specific supplies for Agilent 5977C/7000E and GC Column recommendations for hydrogen carrier gas application

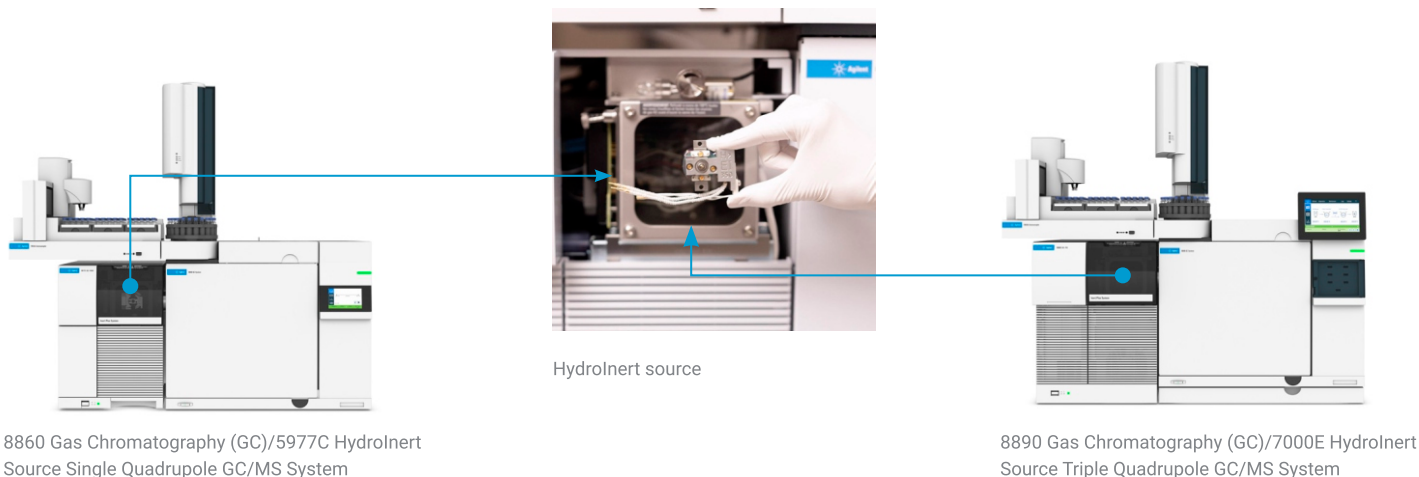
Part Number	Description	Recommended Quantity	Reason to Use	Part Family
G7078-20902	Repeller ⌘ HydroInert	2	HydroInert-specific part cannot be cleaned, so spare parts are recommended in order to reduce instrument downtime	HydroInert-specific 
G7078-20909	Extractor Lens - 9 mm	2	HydroInert-specific part cannot be cleaned, so spare parts are recommended in order to reduce instrument downtime	HydroInert-specific 
G7078-20905	Ion Focus Lens	1	HydroInert-specific part cannot be cleaned, so spare parts are recommended in order to reduce instrument downtime	HydroInert-specific 
G7006-60926	Entrance Lens - Extended	1	For 7000E. HydroInert-specific part cannot be cleaned, so spare parts are recommended in order to reduce instrument downtime	HydroInert-specific 
G7078-20904	Entrance lens	1	For 5977C. HydroInert-specific part cannot be cleaned, so spare parts are recommended in order to reduce instrument downtime	HydroInert-specific 
19091S-577UI	J&W HP-5ms Ultra Inert GC Column, 20 m, 0.18 mm, 0.18 µm	1	0.18 mm Column is recommended for using Hydrogen as the carrier gas, strongly recommended being used with HydroInert	GC Column 

Learn more:

explore.agilent.com/quietcover



The **new HydroInert source for hydrogen carrier applications** not only minimizes disruptions from helium shortages but also improves spectral fidelity, peak shape, and sensitivity when running with hydrogen.



8860 Gas Chromatography (GC)/5977C HydroInert Source Single Quadrupole GC/MS System

8890 Gas Chromatography (GC)/7000E HydroInert Source Triple Quadrupole GC/MS System

Learn more:

[HydroInert Source for Hydrogen Carrier Gas](#)

Intuvo 9000 Gas Chromatography (GC)/5977B Single Quadrupole GC/MS Systems with 7693A Automatic Liquid Sampler

Automatic liquid sampler

- **5181-1267**: Syringe, 10 μ L Tapered, FN 23–26s/42/HP
- **G4513-80204**: Syringe, Blue Line, 10 μ L, Fixed Needle, 23-26s/42/Cone 🔦 **(Top Recommendation)**
- **07673-40180**: Diffusion Caps for 4 mL Vials, 12/pk

Gas Management

- **CP17973**: Carrier Gas Clean Filter
- **RMSH-2**: Big Universal Trap, Helium, 1/8 in, 250 psig 🔦 **(Top Recommendation)**
- **G6699A**: CrossLab CS Bundle (ADM Flow Meter and Electronic Leak Detector) 🔦 **(Top Recommendation)**

5977B Single Quadrupole MSD

- **G3870-20444**: Lens, Extraction, 3 mm, for 5977
- **G7005-60061**: Filament, High Temperature, EI Ion Source
- **G7002-60001**: High Efficiency Source Filaments

Rough Pump Consumables and Tools







- **5191-5851**: AVF 45 Platinum, 1 Liter
- **G7077-67018**: IDP-3 Tip Seal Maintenance Kit, Includes Tip Seal, Silencer Filter Element, Face Mask, Lint Free Cloth, Gloves, and Hex Keys


Intuvo 9000 GC

- **5190-5112-005**: Ultra Inert Splitless Single Taper with Frit Liner, 5/pk
- **5188-5365**: Liner O-Ring, Non-Stick 10/pk
- **5200-0176**: FID Jet, Universal Fit, 0.011 inch ID
- **5190-9072**: Intuvo Polyimide Gaskets 5/pk
- **5190-9073**: Intuvo Nickel Gaskets 2/pk
- **G4587-60565**: Intuvo Split/Splitless Inlet Guard Chip 2/pk
- **G4587-60575**: Intuvo Split/Splitless Inlet Jumper Chip
- **G4581-60260**: Intuvo Compression Bolt
- **8710-2790**: Screw Driver, Torque, Preset Adjustable



Intuvo 9000 GC workflow supplies recommendations

Part Number	Description	Recommended Quantity	Reason to Use	Part Family
5190-9072	Intuvo Polyimide Gaskets 5/pk	1	Gaskets are required to make connections in Intuvo flow path	Intuvo-specific 
5190-9073	Intuvo Nickel Gaskets 2/pk	2	For use with high temperature applications (e.g. 400 °C)	Intuvo-specific 
G4587-60565	Intuvo Split/Splitless Inlet Guard Chip 2/pk	1	Guard chip for "dirty samples" to help protect the specialized Intuvo columns. The guard chip acts like a combination of the gold seal + guard column to protect analytical column from dirty samples	Intuvo-specific 
G4587-60575	Intuvo Split/Splitless Inlet Jumper Chip	1	For use with clean samples only	Intuvo-specific 
G4587-60665	Intuvo MMI Inlet Guard Chip 2/pk	1	Guard chip for "dirty samples" to help protect the specialized Intuvo columns. The guard chip acts like a combination of the gold seal + guard column to protect analytical column from dirty samples	Intuvo-specific 
G4587-60675	Intuvo MMI Inlet Jumper Chip	1	For use with clean samples only	Intuvo-specific 
G4581-60260	Intuvo Compression Bolt	4	Have on hand as extras in case the ones installed are dropped/lost	Intuvo-specific 
8710-2790	Screw Driver, Torque, Preset Adjustable	1	Uniquely designed for specific use with the Intuvo compression bolts	Intuvo-specific 
5183-4757	Septa Non-Stick BTO Inlet 11 mm 50/pk	1	BTO septa are optimized to reduce septum bleed at a higher range of temperatures  (Top Recommendation)	Septa 
5181-1267	Syringe, 10 µL Tapered, FN 23x26s/42/HP	1	Agilent Gold Standard syringe with fitted stainless-steel plunger for routine GC analysis of liquid samples	Syringes 
G4513-80204	Syringe, Blue Line, 10 µL, Fixed Needle, 23x26s/42/Cone	1	Agilent Blue Line syringe with fitted stainless-steel plunger offering greater performance for high sensitivity analysis  (Top Recommendation)	Syringes 
5190-3165	Inlet Liner, Ultra Inert, Split, Low Pressure Drop, Glass Wool, 5/pk	1	General use liner that provides high performance for varying applications	Liners 
5190-5112-005	Ultra Inert Splitless Single Taper with Frit Liner, 5/pk	1	Functions similarly to glass-wool packed liner with greater longevity and repeatability of analysis. Ideal for the analysis of samples with heavy matrices	Liners 
5200-0176	FID Jet, Universal Fit, 0.011 inch ID	1	Our universal jets are designed for capillary and packed column compatibility. They are designed to prevent thread galling and enhance ease of installation	FID Jet 
5188-5365	Liner O-Ring, Non-Stick 10/pk	1	Required to make inlet/detector leak-free connections, especially for MSD	Liner O-Rings 

Part Number	Description	Recommended Quantity	Reason to Use	Part Family
07673-40180	Diffusion Caps for 4 mL Vials, 12/pk	1	This helps prevent solvent from evaporating while sitting in the vial in the autosampler tray	Diffusion Caps for Wash Vials
G6699A	CrossLab CS Bundle (ADM Flow Meter and Electronic Leak Detector)	1	The cartridge design combines the two most critical GC flow path monitoring tasks, including flow rate and leak detection monitoring, into a single hand-held system with the bundle offering. G6691A CrossLab CS ADM Flow Meter and G6693A CrossLab CS Electronic Leak Detector are also available separately  (Top Recommendation)	Gas Management



The upper body on the inlet and turn top and the upper body of the FID are the same on Intuvo 9000 as the 8890/8860 GCs. Therefore, the liners, septa, FID jet and syringes that are suggested in GC and/or GC/MS analysis are valid for Intuvo 9000 GC.

Learn more:

[Intuvo Supplies](#)



Altium International Sp. z o.o.

ul. Puławska 303, 02-785 Warszawa

telefon +48 22 549 14 00

klient.pl@altium.net

www.perlan.com.pl

www.altium.net

For more information, please visit:

www.agilent.com/en/product/gas-chromatography

DE73851988

This information is subject to change without notice.

© Agilent Technologies, Inc. 2023
 Printed in the USA, February 15, 2023
 5994-5757EN

