

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.

Top Supplies for Flame AAS



Hollow cathode lamps










Select either single or multi-element coded lamps from the range available.

[See this link](#) and select lamps for the elements required.





Sample introduction

- [9910093000](#): Nebulizer capillary kit 🧠 **(Top Recommendation)**
- [1610117390](#): Venturi for nebulizer, Mark 7, PEEK 1/pk
- [9910025700](#): Glass impact beads, 5/pk 🧠 **(Top Recommendation)**
- [9910093400](#): O-ring kit, for Mark 7 spray chamber used with aqueous samples 🧠 **(Top Recommendation)**
- [190034100](#): Mark 7 Flame Atomization System Operating Supplies Kit








General flame AAS supplies recommendations (55/240/280 AAS)

| Part Number | Description | Recommended Quantity | Reason to Use | Part Family |
|---|---|----------------------|---|---|
| 9910044000 | Capillary tubing, hi-vac nebulizer, 3/pk | 1 | Precut lengths of narrow bore capillary tubing (0.38 mm ID) with a flared end to ensure best sensitivity with aqueous solutions and samples that have relatively low levels of dissolved solids 💡 (Top Recommendation) |  |
| See this link and select lamps for the elements required | Single or multi-element coded or uncoded lamps | 1 for each element | Coded lamps are element coded for automatic recognition by the instrument, simplifying operation and eliminating the risk of time-consuming errors when changing the lamp position. Uncoded lamps provide economical operation. All Agilent lamps provide superb performance and are compatible with all Agilent AA systems |  |
| See this link and select lamps for the elements required* | High Intensity UltrAA Lamps | 1 for each element | UltrAA lamps are a comprehensive range of high intensity hollow cathode lamps that can replace conventional lamps for AA determinations. They lower detection limits for the most demanding AAS applications |  |
| * Flame AAS instruments need the UltrAA lamp control module (pn G8445A) ordered with the system | | | | |
| 210164100 | Mark 7 nitrous oxide-acetylene burner, 1/pk | 1 | Produces a higher temperature flame to ensure atomization of highly refractory elements such as Al, Si, Mo, V, and Ti 💡 (Top Recommendation) |  |
| 9910053900 | Burner cleaning and alignment card, 100/pk | 1 | Required for routine maintenance to ensure proper cleaning of the burner ensuring best precision and long, stable operation 💡 (Top Recommendation) |  |
| 9910093600 | Mixing paddles fluorinated Mark 7, 5/pk | 1 | Required for routine maintenance to ensure proper mixing of samples ensuring best precision and long, stable operation |  |
| 110634490 | Complete Mark 7 spray chamber assembly, aqueous, for use with aqueous solutions | 1 | Recommended as a spare to support routine operation with samples prepared in an aqueous matrix |  |
| 110866890 | Complete Mark 7 spray chamber assembly, organic, for use with organic solvents | 1 | Required for applications where samples are prepared in a non-aqueous (organic) matrix |  |
| 9910093500 | O-ring kit, for Mark 7 spray chamber used with organic solvents | 1 | Required for routine maintenance to ensure leak-free connections |  |

Vapor generation AAS supplies recommendations (55/240/280 AAS)

| Part Number | Description | Recommended Quantity | Reason to Use | Part Family |
|-------------|--|----------------------|--|--|
| 9910040000 | Hydride absorption cells, quartz, 2/pk | 2 | Required for atomization of the hydride vapor, ensuring optimum sensitivity and lowest noise |  |
| 9910040700 | Flowthrough mercury absorption cell, single cell | 1 | Required for routine analysis of Hg using the cold vapor technique | |
| 9910062100 | AA hydride module for VGA 77 Vapor Generation Accessory, 1/pk | 1 | Recommended to dedicate a module to Hg determinations to reduce cross contamination |  |
| 3710027200 | PVC peristaltic pump tubing for reagent, black/black tabs, 12/pk | 1 of each | Required for routine operation as regular replacement of the pump tubing is recommended | |
| 3710027300 | PVC peristaltic pump tubing for sample, purple/black tabs, 12/pk | 1 of each | Required for routine operation as regular replacement of the pump tubing is recommended |  |
| 190025200 | VGA 77 Operating Supplies Kit | 1 | Required to support routine operation of the VGA 77 | |
| 9910061900 | Tubing and connector kit for VGA-77 1/pk | 1 | Required to support routine operation of the VGA 77 |  |

SPS 4 autosampler supplies recommendations (Flame AAS)

| Part Number | Description | Recommended Quantity | Reason to Use | Part Family |
|-----------------------------|--|----------------------|--|---|
| G8410-80103 | SPS 4 probe 1.0 mm id with blue markers. Inert, FEP sleeved for SPS 4 autosampler, 1/pk | 1 | Required to support routine operation of the SPS 4 autosampler when used with flame AAS |  |
| 3710049000 | Peristaltic pump tubing for supply of rinse solution to the autosampler, PVC Solvaflex, 3-bridged, gray/gray black/black tabs, 12/pk | 1 | Required for routine operation as regular replacement of the pump tubing is recommended |  |
| 6610025400 | Sample rack for 16 mm od tubes, 60 positions | 1 | Additional sample racks are recommended to provide additional holding and storage capacity |  |
| 6610026100 | Rack overlay for 60-position sample rack Allows 13 mm od tubes to be used in 60-position rack | 2 for each rack | Additional sample racks are recommended to provide additional holding and storage capacity | |
| 6610026600 | Sample rack for 30 mm od tubes, 21 positions | 1 | Additional sample racks are recommended to provide additional holding and storage capacity |  |
| G8410-40000 | Standards rack, 34 positions, for SPS 4 autosampler | 1 | Additional standard rack for AA/MP-AES and ICP-OES autosampler configuration |  |
| 190049700 | Polypropylene sample tubes, 16 mm od, 125 mm height, 1000/pk | 1 | Sample tube recommended for the 60-position sample rack |  |
| 190065200 | Centrifuge tubes, screw-capped, 29 mm od, 50 mL polypropylene, 500/pk | 1 | Sample tube recommended for the 21-position sample rack |  |

[Learn more](#) about the comprehensive range of single-element and multi-element inorganic standards for testing elemental impurities in all markets that includes instrument calibration and tuning mixes for ICP-MS, ICP-OES, MP-AES, AA, and IC instrumentation.

Top Supplies for Graphite Furnace AAS



Hollow cathode lamps

Select either single or multi-element coded lamps from the range available.








[See this link](#) and select lamps for the elements required.

Sample introduction

- **9910028200**: Autosampler cups, 2.0 mL conical, polyethylene, 1,000/pk
💡 (Top Recommendation)
- **9910115100**: Sample capillary assembly for PSD 120, 5/pk
💡 (Top Recommendation)

Graphite furnace workhead

- **6310001200**: Partitioned tubes, pyrolytically coated, 10/pk
💡 (Top Recommendation)
- **6310003700**: Omega platform tubes, pyrolytically coated, 10/pk
- **190067900**: GTA 120 Deuterium furnace System Operating Supplies Kit
- **190068000**: GTA 120 Zeeman furnace System Operating Supplies Kit

| Part Number | Description | Recommended Quantity | Reason to Use | Part Family |
|---|--|----------------------|---|---|
| See this link and select lamps for the elements required | Single or multi-element coded or uncoded lamps | 1 for each element | Coded lamps are element coded for automatic recognition by the instrument, simplifying operation and eliminating the risk of time-consuming errors when changing the lamp position. Uncoded lamps provide economical operation. All Agilent lamps provide superb performance and are compatible with all Agilent AA systems |  |
| See this link and select lamps for the elements required* | High Intensity UltraAA Lamps | 1 for each element | UltraAA lamps are a comprehensive range of high intensity hollow cathode lamps that can replace conventional lamps for AA determinations. They lower detection limits for the most demanding AAS applications |  |
| *G8435AA requires option#200 ordered with the system | | | | |
| 9910113100 | High capacity carousel kit for PSD 120 | 1 | Increases sample capacity of the PSD 120 from 50 to 130 samples |  |
| 6610025900 | Sample vials, polyethylene, 1.1 mL, 2,000/pk | 1 | 1.1 mL sample vials required for use with the high capacity sample carousel kit |  |
| 9910115600 | Plastic beakers, low density polyethylene, 10 mL | 1 | Required for holding bulk standards and modifiers in the 5 central positions of the PSD 120 |  |
| 4710003200 | Syringe 100 µL for PSD 120, 1/pk | 1 | Spare syringe for PSD 120 to support routine operation |  |
| 4710003100 | Plunger for 100 µL syringe for PSD, 1/pk | 1 | The plunger in the syringe will wear with use. Regular replacement of the plunger ensures good sealing for accurate sample dispensing, reducing bubble formation and preventing cross contamination 💡 (Top Recommendation) |  |

[Learn more](#) about the comprehensive range of single-element and multi-element inorganic standards for testing elemental impurities in all markets that includes instrument calibration and tuning mixes for ICP-MS, ICP-OES, MP-AES, AA, and IC instrumentation.

Learn more:

www.agilent.com/en/product/atomic-spectroscopy

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