

Gas Chromatograph Mass Spectrometer

# GC/GCMS Autosamplers Consumables



Thank you for purchasing a Shimadzu Gas Chromatograph or Gas Chromatograph / Mass Spectrometer. Utilizing the proper consumables will help keep your system running at optimal performance. Please use this catalog to select the items needed for your sample introduction device. To purchase these and other consumables, please visit our web store:

<https://store.shimadzu.com>.

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# Tested & Proven Consumables for the AOC-30 and AOC-20 Series

To obtain correct results or minimize unexpected system downtime, the presence of reliable quality consumables is essential. Shimadzu offers a wide range of consumables to maximize the performance of GC/GCMS systems.



## High-Quality Vials

The Shimadzu vial is a high-quality vial with significantly reduced septa bleed. Analysis with low-quality vials results in incorrect analysis and risks contamination of the equipment and loss of valuable samples. The Shimadzu vial ensures performance and always provides reliable results.



## Xtra Clean Conical Cap

This item is ideal for a vial cap for washing/cleaning solvents. The septa-less structure ensures that the cleaning solvent is not contaminated by the septum, making it safe to use for long-term multi-sample analysis.



## Xtra Life Microsyringe

The plunger made of a special titanium alloy has excellent flexibility, enabling you to perform long-term analysis without worrying about poor plunger operation due to bending or sliding friction. This syringe is also recommended for the analysis of water-soluble samples that can be challenging for conventional stainless-steel plungers, which tend to get stuck after only a few injections.



## Xtra Life Inlet Septum

The unique structure achieves ten times more leak-free analysis than conventional methods and minimizes the amount of septa dust generated repeatedly during injections. Shimadzu's New Normal septa makes worry-free long-term analysis possible and is ideal for trace-level analysis where septum particles can get in the way of results.

## Vial Kits

| Part #       | Description   | Notes  |
|--------------|---|--|
| 220-97331-30 | Vial Kit, 1.5mL Clear Glass Vial w/ Cap & Septa           | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-31 | Vial Kit, 1.5mL Amber Glass Vial w/ Cap & Septa           | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-46 | Vial Kit, 1.5mL Clear Glass Vial w/ Cap & Septa,          | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 1000/pk |
| 220-97331-47 | Vial Kit, 1.5mL Amber Glass Vial w/ Cap & Septa           | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 1000/pk |
| 220-97331-67 | Vial Kit, 1.5mL Clear Silanized Glass Vial w/ Cap & Septa | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-68 | Vial Kit, 1.5mL Amber Silanized Glass Vial w/ Cap & Septa | Screw Cap with Silicone/PTFE septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-91521-03 | Vial Kit, clear glass with integrated micro-insert        | Screw Caps with Silicone/PTFE septa, with 200µL fused insert, 100/pk                             |
| 220-97331-22 | Vial Kit, 4mL Clear Glass Screw Top Vial w/ Cap & Septa   | Screw Cap with Silicone/PTFE septa, 100/pk   |
| 220-97331-23 | Vial Kit, 4mL Amber Glass Screw Top Vial w/ Cap & Septa   | Screw Cap with Silicone/PTFE septa, 100/pk   |
| 220-97331-40 | Vial Kit, 4mL Clear Glass Screw Top Vial w/ Cap & Septa   | Screw Cap with Silicone/PTFE septa, 1000/pk  |
| 220-97331-41 | Vial Kit, 4mL Amber Glass Screw Top Vial w/ Cap & Septa   | Screw Cap with Silicone/PTFE septa, 1000/pk  |
| REST-23096   | Vial Kit, 4mL Rinse/Waste Vials with Diffusion Caps       | Diffusion caps (Xtra clean conical) prevent evaporation of volatile solvents, pk of 12           |



REST-23096 and 227-35600-01



220-91521-03

## Replacement Vials, Caps & Septa

| Part #       | Description                                  | Notes  |
|--------------|--|--|
| 220-97331-25 | Vials, 1.5mL Clear Glass Vial Only           | Short Thread Vial. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk |
| 220-97331-26 | Vials, 1.5mL Amber Glass Vial Only           | Short Thread Vial. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk |
| 220-97331-65 | Vials, 1.5mL Clear Silanized Glass Vial Only | Short Thread Vial. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk |
| 220-97331-66 | Vials, 1.5mL Amber Silanized Glass Vial Only | Short Thread Vial. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk |
| 220-97331-27 | Screw Cap & Septa Only, for 1.5mL Vials      | Screw Cap, Silicone/PTFE Septa, 100/pk   |
| 220-97331-17 | Vials, 4mL Vial Only, clear glass            | Screw Cap Style, 100/pk  |
| 220-97331-18 | Vials, 4mL Vial Only, amber glass            | Screw Cap Style, 100/pk  |
| 220-97331-20 | Screw Cap & Septa Only, for 4mL Vials        | Screw Cap, Silicone/PTFE Septa, 100/pk   |
| 227-35600-01 | Xtra clean conical cap insert for 4mL vials  | Cap inserts only, replacement for septa, 12pc                                  |

## Vial Inserts

| Part #       | Description                                | Notes  |
|--------------|--|--|
| 220-97331-62 | Vials, 200uL Glass Insert Only, 100/pk     | Clear glass with plastic spring for centering.           |
| 220-97331-63 | 200uL Glass Insert Only, Silanized, 100/pk | Clear silanized glass with plastic spring for centering. |

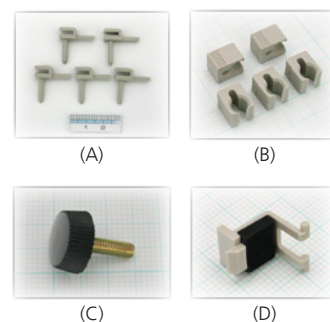


## Syringes for AOC-20i and AOC-30i

| Part #       | Description                                | Notes  |
|--------------|--|--|
| 221-75173-00 | Syringe, 5µL, fixed needle                 | Syring for manual injection or for use with AOC-20i or AOC-30i, 0.63mm needle (23 gauge)             |
| 221-34618-00 | Syringe, 10µL, fixed needle                | Syring for manual injection or for use with AOC-20i or AOC-30i, 0.63mm needle (23 gauge)             |
| 227-35401-01 | Xtra life micro-syringe, 5µL               | Long life, Titanium alloy plunger, for use with AOC-20i or AOC-30i                                   |
| 227-35400-01 | Xtra life micro-syringe, 10µL              | Long life, Titanium alloy plunger, for use with AOC-20i or AOC-30i                                   |
| 220-90282-20 | Syringe, 10µL removable needle             | Syring for manual injection or for use with AOC-20i or AOC-30i, 0.63mm needle (23 gauge)             |
| 220-90281-20 | Removable needles, 0.63mm (23 gauge)       | Replacement needles 0.63 mm for 220-90282-20, 2/pk   |
| 220-90282-21 | Syringe, 10µL removable needle, 26 gauge   | Syring for manual injection or for use with AOC-20i or AOC-30i, 0.47mm needle (26 gauge)             |
| 220-90281-21 | Removable needles, 0.47mm (26 gauge)       | Replacement needles 0.47mm for 220-90282-21  |
| 220-90282-23 | Removable needles, 0.63/0.47, tapered      | Replacement needles for 220-90282-21, dual gauge (0.63/0.47mm) for on-column injection (OCI)         |
| 227-35002-01 | Syringe, 0.5 µL                            | AOC-20i or AOC-30i Plunger-in-needle style syringe, 0.5µL  |
| 221-74469-00 | Syringe, 10µL teflon tip, fixed needle     | AOC-20i or AOC-30i syringe with teflon tip (gas tight) plunger, 23 gauge                             |
| 221-75173-01 | Replacement plunger, For 221-74469-00      | Replacement plungers for 221-74469-00, 2/pk  |
| 221-75174-00 | Syringe, 10µL teflon tip, removable needle | AOC-20i or AOC-30i syringe with teflon tip (gas tight) plunger, 23 gauge                             |
| 221-75174-01 | Replacement needles, For 221-75174-00      | Replacement needles for 221-75174-00, 2/pk   |
| 221-75174-02 | Replacement plungers, For 221-75174-00     | Replacement plungers for 221-75174-00, 2/pk  |
| 221-37282-02 | Syringe, 10µL for OCI, fixed needle        | Syringe for on-column injection, for use with AOC-20i or AOC-30i, tapered needle                     |
| 221-45243-00 | Syringe, 50µL, fixed needle                | Syringe for manual injection or for use with AOC-20i or AOC-30i, 0.63mm ID, Fixed Needle             |
| 221-45244-00 | Syringe, 250µL teflon tip, fixed needle    | Syringe for manual injection or for use with AOC-20i or AOC-30i, 0.63mm ID, Fixed Needle, Teflon Tip |
| 221-45244-01 | Replacement plungers, For 221-45244-00     | Replacement Plunger for 250uL Gas Tight Syringe (221-45244-00), 2/pk                                 |

## | Syringe Holders for AOC-20i and AOC-30i

| Part #       | Description             | Notes   |
|--------------|-------------------------|---|
| 221-45177-91 | (A) Plunger holder      | Holds plunger, for use with AOC-20i or AOC-30i, 5/pk                              |
| 221-45178-91 | (B) Barrel holder       | Holds syringe barrel, for use with AOC-20i or AOC-30i, 5/pk                       |
| 037-02820-00 | (C) Plunger holder knob | Bellows knob N-1 with M3 x 10, for use with AOC-20i or AOC-30i                    |
| 221-48989-91 | (D) Barrel clip         | Holds syringe in place in the barrel holder assy, for use with AOC-20i or AOC-30i |



## | Optional Accessories for AOC-20i

| Part #       | Description  | Notes  |
|--------------|--|--|
| 221-45622-91 | Long rack assy with vial holder                            | Long rack with 12 sample holders, for AOC-20i only   |
| 221-45609-91 | Vial holder with holes, for 1.5mL vials, AOC-20i           | Vial holder with holes to connect to water bath for heating or cooling, 6 sample positions. Liquid must be supplied separately from the thermostatic bath. Possible temperature for cooling/heating is 0 to 60 °C. |
| 221-32949-01 | Vial holder, for 4mL vials, AOC-20i                        | For 4mL vials, 2 positions   |
| 221-74090-41 | Earthquake safety bracket for AOC-20i on GC-2030 / GC-2010 | For securing AOC-20i to GC unit to prevent them from falling down due to intense shaking such as in the event of an earthquake.  |
| 221-74090-42 | Earthquake safety bracket for AOC-20i on GC-2014           | For securing AOC-20i to GC unit to prevent them from falling down due to intense shaking such as in the event of an earthquake.  |
| 221-44548-93 | AOC-20i mounting parts for GC-2030 and GC-2010             | Extra set of mounting pins for AOC-20i on GC-2030 or GC-2010 to allow moving AOC-20i between different injection ports.  |
| 221-44548-94 | AOC-20i mounting parts for GC-2014                         | Extra set of mounting pins for AOC-20i on GC-2014 to allow moving AOC-20i between different injection ports.   |



221-45622-91



221-45609-91



221-32949-01

## | Optional Accessories for AOC-30i

| Part #       | Description                                      | Notes   |
|--------------|--|---|
| 221-86017-41 | Earthquake safety bracket for AOC-30i on GC-2030 | For securing AOC-30i to GC unit to prevent them from falling down due to intense shaking such as in the event of an earthquake. |
| 221-86005-58 | AOC-30i mounting parts for GC-2030               | Set of mounting pins for AOC-30i on GC-2030 to allow moving AOC-30i between different injection ports.                          |

## Optional Accessories for AOC-20s and AOC-20s U

| Part #       | Description   | Notes  |
|--------------|---|--|
| 221-85189-43 | Rack assembly, half tray, with holes for cooling or heating for 1.5mL vials | Includes tubing and 3 racks with holes for sample cooling or heating. Liquid must be supplied separately from the thermostatic bath. Possible temperature for cooling/heating is 0 to 60 °C. |
| 221-44709-42 | Vial rack, with holes, for 1.5mL vials, AOC-20s and AOC-20s U               | Single rack with 25 positions for 1.5mL vials, with holes for heating or cooling liquid. Rack only.  |
| 221-44710-42 | Vial rack, with holes, for 4mL vials, AOC-20s and AOC-20s U                 | Single rack with 16 positions for 4mL vials, with holes for heating or cooling liquid. Rack only.  |
| 221-47173-58 | Barcode reader, AOC-20s and AOC-20s U                                       | Compatible with Code 39, NW-7 or JAN barcode labels.   |

## Connection Cables

| Part #       | Description                        | Notes   |
|--------------|------------------------------------|---|
| 221-49794-91 | AOC20 or AOC-30 autoinjector cable | This is the power cable for AOC-20i and AOC-30i autoinjectors (with one noise filter).          |
| 221-49794-92 | AOC20 sampler cable                | This is the power cable for AOC-20s and AOC-20s U (with two noise filters).                     |
| 225-31264-91 | GC-Ready Cable for AOC-20i & HS-10 | For simultaneous connection of AOC-20i and HS-10 to GC-2014 and GC-2010; not needed for GC-2030 |
| 225-23415-91 | GC-Ready Cable for AOC-20i & HS-20 | For simultaneous connection of AOC-20i and HS-20 to GC-2014 and GC-2010; not needed for GC-2030 |
| 221-48406-91 | RS-232C cable for AOC              | Short cable that connects AOC-20 internal power supply to GC-2010/2014 CPU                      |
| 221-48405-91 | GC ready/start cable               | Short cable that connects AOC-20 internal power supply to GC-2010/2014 CPU                      |

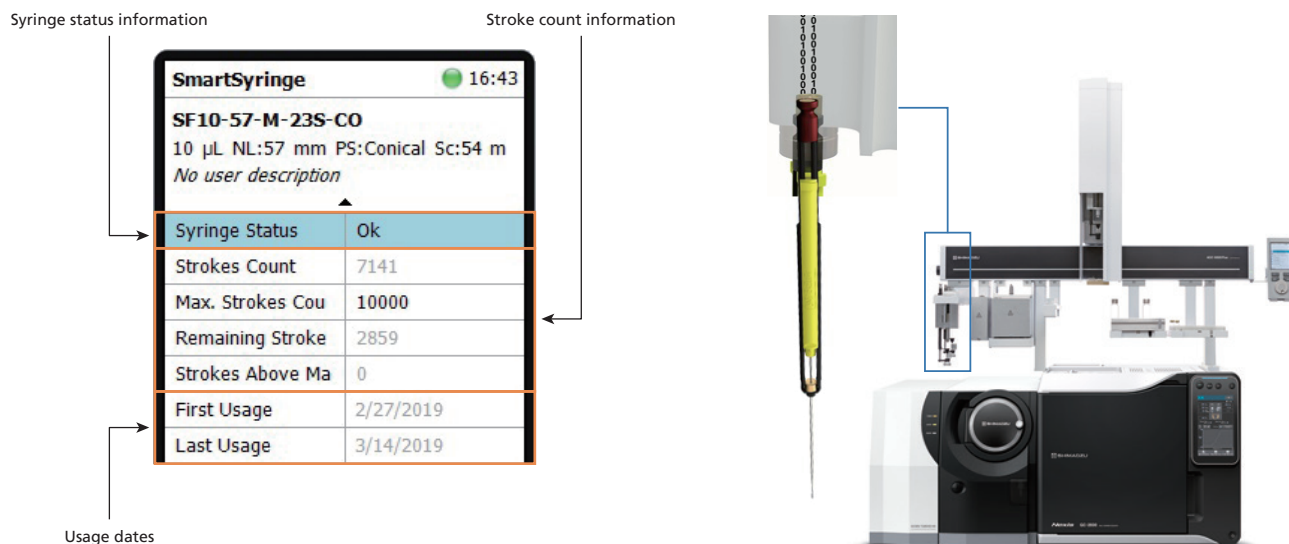
## Injection Port Needle Guides and Septa

| Part #       | Description   | Notes  |
|--------------|---|--|
| 221-44584-00 | Needle Guide, for injection port                        | Required for AOC-20i and AOC-30i   |
| 221-77117-41 | Septum nut with integrated needle guide for GC-2030 SPL | For GC-2030 Split/splitless injection port                                   |
| 221-45205-00 | Needle Guide, for OCI                                   | Long needle guide for on-column injection                                    |
| 221-76650-01 | Septa, Green  | Low bleed, max temp 340°C, pack of 25  |
| 227-35004-01 | Premium green septa                                     | come as standard accessory of GC-2030, pack of 50, max temp 350°C, low bleed |
| 220-90638-01 | Septa, Red, HT  | Max temp 400°C, pack of 25   |
| 227-35511-01 | Xtra life inlet septa, red 25 pcs                       | Max temp 400°C, pack of 25, up to 1000 injections                            |

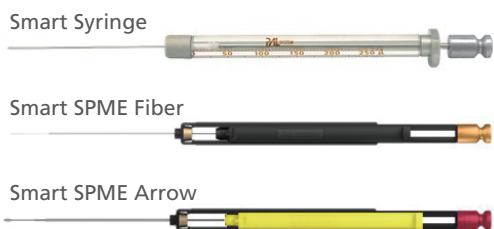
# Introducing Smart Consumables for the AOC-6000 Plus

## Increased Data Reliability with Syringe and Fiber Usage History

The AOC-6000 Plus includes a feature for managing the use of syringes and fibers. It reads the Smart Chips built into the specially-designed Smart Syringe, Smart SPME Fiber, and Smart SPME Arrow and displays information for the device, such as temperature resistance, usage history, usage dates and stroke count\*1. The ability to automate complicated consumables management and monitor the conditions of syringes and fibers leads to more reliable data.



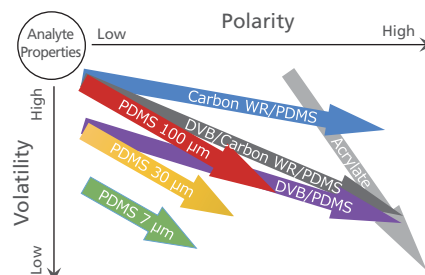
A broad lineup of Smart Syringes, Smart SPME Fibers and Smart SPME Arrows compatible with the AOC-6000 Plus are available to cover any analysis.



The Smart Syringes have color-coded plungers so that the volume can be distinguished at a glance.



Choose the best consumables for your application with a lineup of Smart SPME Fibres and Smart SPME Arrows covering all types of mobile phase. Plungers are color-coded according to the mobile phase type so that consumables can be distinguished easily.



\*1 The AOC-6000 Plus is only compatible with the Smart Syringe, Smart SPME Fiber and Smart SPME Arrow. Syringes and fibers without a Smart Chip cannot be used.



# Liquid and Headspace Syringes

| Part #       | CTC Part #        | Description  | Notes   |
|--------------|-------------------|--|---|
| 227-35353-01 | SF10-57-T-26S-CO  | Smart Syringe, 10uL Liquid 26S, AOC-6000           | 10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical  |
| 227-35353-02 | SF10-57-T-23S-CO  | Smart Syringe, 10uL Liquid 23S, AOC-6000           | 10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 23S, scale length 60mm, Point Style conical  |
| 227-35352-02 | SF10-57-M-23S-CO  | Smart Syringe, 10uL Liquid Metal Plunger, AOC-6000 | 10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, metal plunger, gauge 23S, scale length 54mm, Point Style conical |
| 227-35361-01 | SF10-85-M-26S-CO  | Smart Syringe, 10uL LINEX Metal Plunger, AOC-6000  | 10uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, metal plunger, gauge 26S, scale length 54mm, Point Style conical |
| 227-35361-02 | SF10-85-T-26S-CO  | Smart Syringe, 10uL LINEX PTFE Plunger, AOC-6000   | 10uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical  |
| 227-35354-01 | SF25-57-T-26S-CO  | Smart Syringe, 25uL Liquid, AOC-6000               | 25uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical  |
| 227-35354-02 | SF50-57-T-26S-CO  | Smart Syringe, 50uL Liquid, AOC-6000               | 50uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical  |
| 227-35355-01 | SF100-57-T-26S-CO | Smart Syringe, 100uL Liquid, AOC-6000              | 100uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical |
| 227-35362-01 | SF100-85-T-26S-CO | Smart Syringe, 100uL LINEX, AOC-6000               | 100uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical |
| 227-35356-01 | SF250-57-T-26-CO  | Smart Syringe, 250uL Liquid, AOC-6000              | 250uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 26, scale length 60mm, Point Style conical  |
| 227-35357-01 | SF500-57-T-26-CO  | Smart Syringe, 500uL Liquid, AOC-6000              | 500uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 26, scale length 60mm, Point Style conical  |
| 227-35358-01 | SF1000-57-T-23-CO | Smart Syringe, 1000uL Liquid, AOC-6000             | 1000uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 23, scale length 60mm, Point Style conical |
| 227-35359-01 | SH2500-65-T-23-SP | Smart Syringe, 2500uL Headspace, AOC-6000          | 2500uL Smart Headspace Syringe with fixed needle for Tool HS2500, PTFE Plunger, Needle length 65mm, Gauge 23, Point Style Sideport        |

# Smart SPME Fibers

## PDMS

| Part #       | CTC Part #       | Description                                   | Notes  |
|--------------|------------------|---|--|
| 227-35342-01 | SFIB-P-7/10-P1   | Smart Fiber, SPME, 7 µm PDMS 1 pc, AOC-6000   | Smart SPME fiber PDMS (Polydimethylsiloxane ) Fiber thickness 7µm Fiber length 10mm color code: green pack of 1pc  |
| 227-35342-03 | SFIB-P-7/10-P3   | Smart Fiber, SPME, 7 µm PDMS 3 pc, AOC-6000   | Smart SPME fiber PDMS (Polydimethylsiloxane ) Fiber thickness 7µm Fiber length 10mm color code: green pack of 3pc  |
| 227-35342-05 | SFIB-P-7/10-P5   | Smart Fiber, SPME, 7 µm PDMS 5 pc, AOC-6000   | Smart SPME fiber PDMS (Polydimethylsiloxane ) Fiber thickness 7µm Fiber length 10mm color code: green pack of 5pc  |
| 227-35343-01 | SFIB-P-30/10-P1  | Smart Fiber, SPME, 30 µm PDMS 1 pc, AOC-6000  | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 30µm Fiber length 10mm color code: golden pack of 1pc |
| 227-35343-03 | SFIB-P-30/10-P3  | Smart Fiber, SPME, 30 µm PDMS 3 pc, AOC-6000  | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 30µm Fiber length 10mm color code: golden pack of 3pc |
| 227-35343-05 | SFIB-P-30/10-P5  | Smart Fiber, SPME, 30 µm PDMS 5 pc, AOC-6000  | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 30µm Fiber length 10mm color code: golden pack of 5pc |
| 227-35344-01 | SFIB-P-100/10-P1 | Smart Fiber, SPME, 100 µm PDMS 1 pc, AOC-6000 | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 100µm Fiber length 10mm color code: red pack of 1pc   |
| 227-35344-03 | SFIB-P-100/10-P3 | Smart Fiber, SPME, 100 µm PDMS 3 pc, AOC-6000 | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 100µm Fiber length 10mm color code: red pack of 3pc   |
| 227-35344-05 | SFIB-P-100/10-P5 | Smart Fiber, SPME, 100 µm PDMS 5 pc, AOC-6000 | Smart SPME fiber PDMS (Polydimethylsiloxane) Fiber thickness 100µm Fiber length 10mm color code: red pack of 5pc   |

## DVB/PDMS

| Part #       | CTC Part #        | Description                                | Notes   |
|--------------|-------------------|--|---|
| 227-35346-01 | SFIB-DVB-65/10-P1 | Smart Fiber, SPME, DVB/PDMS 1 pc, AOC-6000 | Smart SPME fiber DVB/PDMS (Divinylbenzene / Polydimethylsiloxane) Fiber thickness 65µm Fiber length 10mm color code: violet pack of 1pc |
| 227-35346-03 | SFIB-DVB-65/10-P3 | Smart Fiber, SPME, DVB/PDMS 3 pc, AOC-6000 | Smart SPME fiber DVB/PDMS (Divinylbenzene / Polydimethylsiloxane) Fiber thickness 65µm Fiber length 10mm color code: violet pack of 3pc |
| 227-35346-05 | SFIB-DVB-65/10-P5 | Smart Fiber, SPME, DVB/PDMS 5 pc, AOC-6000 | Smart SPME fiber DVB/PDMS (Divinylbenzene / Polydimethylsiloxane) Fiber thickness 65µm Fiber length 10mm color code: violet pack of 5pc |

## DVB/C-WR/PDMS

| Part #       | CTC Part #             | Description                                     | Notes  |
|--------------|------------------------|---|--|
| 227-35345-01 | SFIB-DVB/C-WR-80/10-P1 | Smart Fiber, SPME, DVB/C-WR/PDMS 1 pc, AOC-6000 | Smart SPME fiber DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Fiber thickness 50/30µm Fiber length 10mm color code: dark gray pack of 1pc |
| 227-35345-03 | SFIB-DVB/C-WR-80/10-P3 | Smart Fiber, SPME, DVB/C-WR/PDMS 3 pc, AOC-6000 | Smart SPME fiber DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Fiber thickness 50/30µm Fiber length 10mm color code: dark gray pack of 3pc |
| 227-35345-05 | SFIB-DVB/C-WR-80/10-P5 | Smart Fiber, SPME, DVB/C-WR/PDMS 5 pc, AOC-6000 | Smart SPME fiber DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Fiber thickness 50/30µm Fiber length 10mm color code: dark gray pack of 5pc |

## Smart SPME Fibers

### Carbon WR

| Part #       | CTC Part #         | Description                                 | Notes  |
|--------------|--------------------|---|--|
| 227-35347-01 | SFIB-C-WR-95/10-P1 | Smart Fiber, SPME, Carbon WR 1 pc, AOC-6000 | Smart SPME fiber C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Fiber thickness 95µm Fiber length 10mm color code: dark blue pack of 1pc |
| 227-35347-03 | SFIB-C-WR-95/10-P3 | Smart Fiber, SPME, Carbon WR 3 pc, AOC-6000 | Smart SPME fiber C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Fiber thickness 95µm Fiber length 10mm color code: dark blue pack of 3pc |
| 227-35347-05 | SFIB-C-WR-95/10-P5 | Smart Fiber, SPME, Carbon WR 5 pc, AOC-6000 | Smart SPME fiber C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Fiber thickness 95µm Fiber length 10mm color code: dark blue pack of 5pc |

### Acrylate

| Part #       | CTC Part #      | Description                                | Notes  |
|--------------|-----------------|--|--|
| 227-35348-01 | SFIB-A-85/10-P1 | Smart Fiber, SPME, Acrylate 1 pc, AOC-6000 | Smart SPME fiberAcrylate (Polyacrylate) Fiber thickness 85µm Fiber length 10mm color code: grey, pack of 1pc |
| 227-35348-03 | SFIB-A-85/10-P3 | Smart Fiber, SPME, Acrylate 3 pc, AOC-6000 | Smart SPME fiberAcrylate (Polyacrylate) Fiber thickness 85µm Fiber length 10mm color code: grey, pack of 3pc |
| 227-35348-05 | SFIB-A-85/10-P5 | Smart Fiber, SPME, Acrylate 5 pc, AOC-6000 | Smart SPME fiberAcrylate (Polyacrylate) Fiber thickness 85µm Fiber length 10mm color code: grey, pack of 5pc |

## Smart SPME Fiber Selection Kits

| Part #       | CTC Part #        | Description                                 | Notes  |
|--------------|-------------------|---|--|
| 227-35350-01 | SFIB-SEL5-S1-SHIM | Smart Fiber, SPME Selection5-Set1, AOC-6000 | Collection of five different Smart SPME fibers with fiber length of 10mm and fiber thickness of:<br>PDMS: 7µm, 30µm & 100µm<br>Acrylate: 85µm<br>Carbon WR: 95µm                       |
| 227-35349-01 | SFIB-SEL5-S2-SHIM | Smart Fiber, SPME Selection5-Set2, AOC-6000 | Collection of five different Smart SPME fibers with fiber length of 10mm and fiber thickness of:<br>PDMS: 100µm, DVB: 65µm<br>Carbon WR: 95µm<br>Acrylate: 85µm<br>DVB/C-WR/PDMS: 80µm |

# Smart SPME Arrow Fibers

## Acrylate

| Part #       | CTC Part #         | Description                                      | Notes  |
|--------------|--------------------|--|--|
| 227-35330-01 | SARR11-A-100/20-P1 | Smart Fiber, SPME Arrow, Acrylate 1 pc, AOC-6000 | Smart SPME Arrow 1.10mm: Acrylate (Polyacrylate) Phase thickness 100µm Phase length 20mm color code: grey, pack of 1 pc  |
| 227-35330-03 | SARR11-A-100/20-P3 | Smart Fiber, SPME Arrow, Acrylate 3 pc, AOC-6000 | Smart SPME Arrow 1.10mm: Acrylate (Polyacrylate) Phase thickness 100µm Phase length 20mm color code: grey, pack of 3 pcs |
| 227-35330-05 | SARR11-A-100/20-P5 | Smart Fiber, SPME Arrow, Acrylate 5 pc, AOC-6000 | Smart SPME Arrow 1.10mm: Acrylate (Polyacrylate) Phase thickness 100µm Phase length 20mm color code: grey, pack of 5 pcs |

## Carbon WR/PDMS

| Part #       | CTC Part #            | Description  | Notes  |
|--------------|-----------------------|--|--|
| 227-35331-01 | SARR11-C-WR-120/20-P1 | Smart Fiber, SPME Arrow, Carbon WR/PDMS 1 pc, AOC-6000       | Smart SPME Arrow 1.10mm: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 1 pc             |
| 227-35331-03 | SARR11-C-WR-120/20-P3 | Smart Fiber, SPME Arrow, Carbon WR/PDMS 3 pc, AOC-6000       | Smart SPME Arrow 1.10mm: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 3 pc             |
| 227-35331-05 | SARR11-C-WR-120/20-P5 | Smart Fiber, SPME Arrow, Carbon WR/PDMS 5 pc, AOC-6000       | Smart SPME Arrow 1.10mm: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 3 pc             |
| 227-35335-01 | SARR15-C-WR-120/20-P1 | Smart Fiber, SPME Arrow 1.5mm, Carbon WR/PDMS 1 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 1 pc |
| 227-35335-03 | SARR15-C-WR-120/20-P3 | Smart Fiber, SPME Arrow 1.5mm, Carbon WR/PDMS 3 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 3 pc |
| 227-35335-05 | SARR15-C-WR-120/20-P5 | Smart Fiber, SPME Arrow 1.5mm, Carbon WR/PDMS 5 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: light blue, pack of 5 pc |

## DVB/PDMS

| Part #       | CTC Part #           | Description  | Notes  |
|--------------|----------------------|--|--|
| 227-35332-01 | SARR11-DVB-120/20-P1 | Smart Fiber, SPME Arrow, DVB/PDMS 1 pc, AOC-6000       | Smart SPME Arrow 1.10mm: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 1 pc             |
| 227-35332-03 | SARR11-DVB-120/20-P3 | Smart Fiber, SPME Arrow, DVB/PDMS 3 pc, AOC-6000       | Smart SPME Arrow 1.10mm: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 3 pc             |
| 227-35332-05 | SARR11-DVB-120/20-P5 | Smart Fiber, SPME Arrow, DVB/PDMS 5 pc, AOC-6000       | Smart SPME Arrow 1.10mm: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 5 pc             |
| 227-35337-01 | SARR15-DVB-120/20-P1 | Smart Fiber, SPME Arrow 1.5mm, DVB/PDMS 1 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 1 pc |
| 227-35337-03 | SARR15-DVB-120/20-P3 | Smart Fiber, SPME Arrow 1.5mm, DVB/PDMS 3 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 3 pc |
| 227-35337-05 | SARR15-DVB-120/20-P5 | Smart Fiber, SPME Arrow 1.5mm, DVB/PDMS 5 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/PDMS (Divinylbenzene) Phase thickness 120µm Phase length 20mm color code: violett, pack of 5 pc |

# Smart SPME Arrow Fibers

## DVB/Carbon WR/PDMS

| Part #       | CTC Part #                  | Description  | Notes  |
|--------------|-----------------------------|--|--|
| 227-35333-01 | SARR11-DVB/<br>CWR120/20-P1 | Smart Fiber SPME Arrow, DVB/Carbon WR/PDMS 1 pc, AOC-6000        | Smart SPME Arrow 1.10mm: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 1 pc             |
| 227-35333-03 | SARR11-DVB/<br>CWR120/20-P3 | Smart Fiber SPME Arrow, DVB/Carbon WR/PDMS 3 pc, AOC-6000        | Smart SPME Arrow 1.10mm: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 3 pc             |
| 227-35333-05 | SARR11-DVB/<br>CWR120/20-P5 | Smart Fiber SPME Arrow, DVB/Carbon WR/PDMS 5 pc, AOC-6000        | Smart SPME Arrow 1.10mm: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 5 pc             |
| 227-35336-01 | SARR15-DVB/<br>CWR120/20-P1 | Smart Fiber, SPME Arrow 1.5mm, DVB/Carbon WR/PDMS 1 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 1 pc |
| 227-35336-03 | SARR15-DVB/<br>CWR120/20-P3 | Smart Fiber, SPME Arrow 1.5mm, DVB/Carbon WR/PDMS 3 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 3 pc |
| 227-35336-05 | SARR15-DVB/<br>CWR120/20-P5 | Smart Fiber, SPME Arrow 1.5mm, DVB/Carbon WR/PDMS 5 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 120µm Phase length 20mm color code: dark grey, pack of 5 pc |

## PDMS

| Part #       | CTC Part #         | Description  | Notes  |
|--------------|--------------------|--|--|
| 227-35334-01 | SARR11-P-100/20-P1 | Smart Fiber, SPME Arrow, PDMS 1 pc, AOC-6000       | Smart SPME Arrow 1.10mm: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 1 pc             |
| 227-35334-03 | SARR11-P-100/20-P3 | Smart Fiber, SPME Arrow, PDMS 3 pc, AOC-6000       | Smart SPME Arrow 1.10mm: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 3 pc             |
| 227-35334-05 | SARR11-P-100/20-P5 | Smart Fiber, SPME Arrow, PDMS 3 pc, AOC-6000       | Smart SPME Arrow 1.10mm: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 5 pc             |
| 227-35338-01 | SARR15-P-100/20-P1 | Smart Fiber, SPME Arrow 1.5mm, PDMS 1 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 1 pc |
| 227-35338-03 | SARR15-P-100/20-P3 | Smart Fiber, SPME Arrow 1.5mm, PDMS 3 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 3 pc |
| 227-35338-05 | SARR15-P-100/20-P5 | Smart Fiber, SPME Arrow 1.5mm, PDMS 5 pc, AOC-6000 | Smart SPME Arrow 1.50mm wide sleeve: PDMS (Polydimethylsiloxane) Phase thickness 100µm Phase length 20mm color code: red, pack of 5 pc |
| 227-35339-01 | SARR15-P-250/20-P1 | Smart Fiber, SPME Arrow 250µm, PDMS 1 pc, AOC-6000 | Smart SPME Arrow 1.5mm: PDMS (Polydimethylsiloxane) Phase thickness 250µm Phase length 20mm color code: black, pack of 1 pc            |
| 227-35339-03 | SARR15-P-250/20-P3 | Smart Fiber, SPME Arrow 250µm, PDMS 3 pc, AOC-6000 | Smart SPME Arrow 1.5mm: PDMS (Polydimethylsiloxane) Phase thickness 250µm Phase length 20mm color code: black, pack of 3 pc            |
| 227-35339-05 | SARR15-P-250/20-P5 | Smart Fiber, SPME Arrow 250µm, PDMS 5 pc, AOC-6000 | Smart SPME Arrow 1.5mm: PDMS (Polydimethylsiloxane) Phase thickness 250µm Phase length 20mm color code: black, pack of 5 pc            |

## Smart SPME Arrow Selection Kits

| Part #       | CTC Part #            | Description                                       | Notes  |
|--------------|-----------------------|---|--|
| 227-35340-01 | SARR1115-SEL5-S1-SHIM | Smart Fiber, SPME Arrow Selection5-Set1, AOC-6000 | Collection of five different Smart SPME Arrows with phase length of 20mm:<br>1 pc SPME Arrow 1.10mm Acrylate (Polyacrylate), Phase thickness 100µm<br>1 pc SPME Arrow 1.10mm C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane), Phase thickness 120µm<br>1 pc SPME Arrow 1.10mm DVB/PDMS (Divinylbenzene / Polydimethylsiloxane), Phase thickness 120µm<br>1 pc SPME Arrow 1.10mm PDMS (Polydimethylsiloxane) , Phase thickness 100µm<br>1 pc SPME Arrow 1.50mm PDMS (Polydimethylsiloxane) , Phase thickness 250µm   |
| 227-35341-01 | SARR1115-SEL5-S2-SHIM | Smart Fiber, SPME Arrow Selection5-Set2, AOC-6000 | Collection of five different Smart SPME Arrows with phase length of 20mm:<br>1 pc SPME Arrow 1.10mm Acrylate (Polyacrylate), Phase thickness 100µm<br>1 pc SPME Arrow 1.10mm Carbon WR/PDMS (Carbon Wide Range / Polydimethylsiloxane), Phase thickness 120µm<br>1 pc SPME Arrow 1.10mm DVB/PDMS (Divinylbenzene / Polydimethylsiloxan), Phase thickness 120µm<br>1 pc SPME Arrow 1.10mm PDMS (Polydimethylsiloxane), Phase thickness 100µm<br>1 pc SPME Arrow 1.10mm DVB/Carbon WR/PDMS (Divinylbenzene/ Carbon wide range Polydimethylsiloxane), Phase thickness 120µm |

## ITEX

| Part #       | CTC Part #   | Description                                      |
|--------------|--------------|--|
| 227-35385-01 | SITEX-1300-T | Product: Smart Syringe, 1300ul ITEX, AOC-6000    |
| 220-94769-30 |              | ITEX TRAP, CARBOXEN 1000, 60/80 MESH [AOC-6000]  |
| 220-94769-33 |              | ITEX TRAP, TENAX TA/CARBOXEN 1000 [AOC-6000]     |
| 220-94769-34 |              | ITEX TRAP, CARBOPACK C/CARBOSIEVE SII [AOC-6000] |
| 220-94769-31 |              | ITEX TRAP, CARBOPACK C, 80/100 MESH [AOC-6000]   |
| 220-94769-32 |              | ITEX TRAP, CARBOSIEVE SII, 60/80 MESH [AOC-6000] |
| 220-94769-36 |              | ITEX TRAP, TENAX GR, 80/100 MESH [AOC-6000]      |
| 220-94769-35 |              | ITEX TRAP, TENAX GR/CARBOSIEVE SII [AOC-6000]    |
| 220-94769-37 |              | ITEX TRAP, TENAX TA, 80/100 MESH [AOC-6000]      |

## Liners

| Part #       | CTC Part #        | Description   |
|--------------|-------------------|---|
| 227-35327-03 | ARRLIN13-GC2010-3 | Product: SPME Arrow Liner ID 1.3mm, for SSL Injector of GC-2010*, 3 pcs |
| 227-35328-03 | ARRLIN17-GC2010-3 | Product: SPME Arrow Liner ID 1.7mm, for SSL Injector of GC-2010*, 3 pcs |

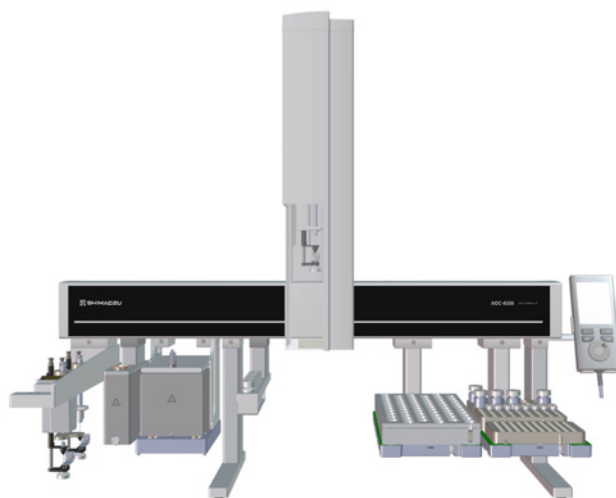
\*Compatible with all NX models

# Vials

| Part #       | Description   | Notes   |
|--------------|---|---|
| 220-91498-00 | 1.5mL Vial set, clear glass with snap caps            | 9mm, 12x 32mm vial, blue caps with PTFE/silicone non-slit septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-30 | 1.5mL Vial set, clear glass with screw caps           | 9mm, 12 x 32mm vial, red caps with PTFE/silicone non-slit septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-67 | 1.5mL Vial set, clear silanized glass with screw caps | 9mm, 12 x 32mm vial, red caps with PTFE/silicone non-slit septa. Compatible with insert 220-97331-62 or 220-97331-63. 100/pk  |
| 220-97331-31 | 1.5mL Vial set, amber glass with screw caps           | 9mm, 12 x 32mm vial, red caps with PTFE/silicone non-slit septa. Compatible with insert 220-97331-62 or 220-97331-63.   |
| 220-97331-68 | 1.5mL Vial set, amber silanized glass with screw caps | 9mm, 12 x 32mm vial, red caps with PTFE/silicone non-slit septa. Compatible with insert 220-97331-62 or 220-97331-63.   |
| 220-97331-62 | 200µL Insert  | Clear glass with plastic spring for centering. Use with any 9mm, 12 x 32mm glass vial. Adjust needle stroke 3-4mm less than that for a flat-bottom vial. 100/pk           |
| 220-97331-63 | 200µL Silanized insert                                | Clear silanized glass with plastic spring for centering. Use with any 9mm, 12 x 32mm glass vial. Adjust needle stroke 3-4mm less than that for a flat-bottom vial. 100/pk |
| 220-91521-03 | Qsert vial set, clear glass with fused insert         | 12 x 32mm vial with 200µL fused insert, blue screw caps with PTFE/silicone non-slit septa. Adjust needle stroke 3-4mm less than that for a flat-bottom vial. 100/pk       |
|              |   |   |
| REST-23096   | Rinse/waste vial set with diffusion cap               | 4mL vials with specially designed cap insert to reduce solvent evaporation. Set of 12 in 6 colors for easy solvent ID.  |
| 220-94500-66 | Wash station vial kit                                 | Wash vials, caps, and septa for vials in the wash/waste station. 10/pl  |
|              |   |   |
| 220-97331-14 | 10mL Magnetic screw-cap clear headspace vial kit      | Kit with clear round bottom vials, magnetic screw caps with PTFE/silicone septa. 100/pk   |
| 220-97331-16 | 20mL Magnetic screw-cap clear headspace vial kit      | Kit with clear round bottom vials, magnetic screw caps with PTFE/silicone septa. 100/pk   |
| 220-97331-09 | 10mL Screw cap clear headspace vials                  | Screw cap top, vials only, round bottom. 100/pk   |
| 220-97331-10 | 20mL Screw cap clear headspace vials                  | Screw cap top, vials only, round bottom. 100/pk   |
| 220-97331-04 | Magnetic screw caps for 10/20mL headspace vials       | Magnetic caps with PTFE/silicone septa for 10 and 20mL screw cap vials. 100/pk  |
|              |   |   |
| 220-97331-52 | 10mL Al crimp-top headspace vial kit, round bottom    | Kit with clear vials, aluminum caps with PTFE/silicone septa. 100/pk  |
| 220-97331-79 | 10mL Mag crimp-top headspace vial kit, round bottom   | Kit with clear vials, magnetic caps with PTFE/silicone septa. 100/pk  |
| 220-97331-77 | 10mL Mag crimp-top headspace vial kit, flat bottom    | Kit with clear vials, magnetic caps with PTFE/silicone septa. 100/pk  |
| 220-97331-53 | 20mL Al crimp-top headspace vial kit, round bottom    | Kit with clear vials, aluminum caps with PTFE/silicone septa. 100/pk  |
| 220-97331-80 | 20mL Mag crimp-top headspace vial kit, round bottom   | Kit with clear vials, magnetic caps with PTFE/silicone septa. 100/pk  |
| 220-97331-78 | 20mL Mag crimp-top headspace vial kit, flat bottom    | Kit with clear vials, magnetic caps with PTFE/silicone septa. 100/pk  |
| 220-97331-50 | 10mL Crimp-top clear headspace vials                  | Crimp cap top, vials only, round bottom. 100/pk   |
| 220-97331-51 | 20mL Crimp-top clear headspace vials                  | Crimp cap top, vials only, round bottom. 100/pk   |
| 220-97331-06 | Aluminum crimp cap for 10/20mL headspace vials        | 20mm aluminum caps with PTFE/silicone septa for 10 and 20mL crimp cap vials. 100/pk   |
| 220-97331-05 | Magnetic crimp caps for 10/20mL headspace vials       | 20mm magnetic caps with PTFE/silicone septa for 10 and 20mL crimp cap vials. 100/pk   |
| 220-94564-00 | Manual crimper for headspace vials                    | For 20mm aluminum or magnetic caps  |
| 220-94565-00 | Manual decapper for headspace vials                   | For 20mm aluminum or magnetic caps  |

## | AOC-6000 Sample Injection System

| Part #       | Description                              |
|--------------|--|
| 225-31110-10 | AOC-6000 SPME CONDITIONING STATION       |
| 220-94928-01 | PAL3-AGITATOR                            |
| 225-31110-30 | LARGE WASH STATION FOR AOC-6000          |
| 225-31114-20 | PAL3-TERMINAL                            |
| 220-94928-02 | PAL3-BARCODE READER                      |
| 225-31113-12 | MOUNTING KIT FOR AOC-6000, PAL3          |
| 225-31113-14 | AOC-6000 Table Mounting Kit              |
| 220-94928-03 | PAL3-DILUTOR SINGLE                      |
| 220-94928-04 | PAL3-DILUTOR MULTI                       |
| 220-94928-05 | PAL3-MHE MODULE                          |
| 220-94928-06 | PAL3-PARKSTATION RTC                     |
| 220-94928-09 | PAL3-SOLVENT MODULE                      |
| 225-31111-06 | AOC-6000 Agitator Inserts for 10mL vials |
| 225-31111-07 | AOC-6000 Agitator Inserts for 2mL vials  |
| 220-94928-27 | PAL3-VORTEX MIXER                        |
| 220-94928-28 | PAL3-WASH FAST                           |
| 220-94928-31 | PAL3-WASH STD                            |
| 220-94928-44 | PAL3-COLUMN HOLDER                       |
| 220-94928-46 | PAL3-FOIL CUTTER                         |
| 225-31114-13 | AOC-6000 PM kit for GC                   |



## | Racks

| Part #       | Description    |
|--------------|----------------|
| 225-31111-31 | PAL3-RACK R60  |
| 225-31111-35 | PAL3-RACK VT54 |

## | Trays

| Part #       | Description      |
|--------------|------------------|
| 220-94928-23 | PAL3-TRAY HOLDER |
| 220-94928-24 | PAL3-TRAY PLATE  |



# HS-10 and HS-20 Series Headspace Samplers



## | Vial Kits Screw Neck

| Part #       | Description   | Notes         |
|--------------|---|---------------|
| 220-97331-14 | 10ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Magnetic caps |
| 220-97331-37 | 10ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 500/pk  | Magnetic caps |
| 220-97331-33 | 10ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 1000/pk | Magnetic caps |
| 220-97331-16 | 20ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Magnetic caps |
| 220-97331-39 | 20ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 500/pk  | Magnetic caps |
| 220-97331-35 | 20ml Headspace vial w/ 18mm screw cap & silicone/PTFE septa, Kit, round bottom, 1000/pk | Magnetic caps |

## | Vial Kits Crimp Neck

| Part #       | Description   | Notes  |
|--------------|---|--|
| 220-97331-52 | 10mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-55 | 10mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 500/pk  | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-54 | 10mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 1000/pk | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-53 | 20mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-57 | 20mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 500/pk  | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-56 | 20mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 1000/pk | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-97331-79 | 10mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Magnetic caps  |
| 220-97331-80 | 20mL Headspace vial w/ 20mm crimp cap & silicone/PTFE septa, Kit, round bottom, 100/pk  | Magnetic caps  |
| 220-97331-81 | 10mL Headspace vial w/ 20mm crimp cap & butyl/PTFE septa, Kit, round bottom, 100/pk     | Magnetic caps  |
| 220-97331-82 | 20mL Headspace vial w/ 20mm crimp cap & butyl/PTFE septa, Kit, round bottom, 100/pk     | Magnetic caps  |

## Vials

| Part #       | Description   | Notes  |
|--------------|---|--|
| 220-97331-09 | 10mL Headspace vial only, screw cap style, 100/pk                                     | Vials only, clear glass, round bottom  |
| 220-97331-10 | 20mL Headspace vial only, screw cap style, 100/pk                                     | Vials only, clear glass, round bottom  |
| 220-97331-50 | 10mL Headspace vial only, crimp cap style, 100/pk                                     | Vials only, clear glass, round bottom  |
| 220-97331-51 | 20mL Headspace vial only, crimp cap style, 100/pk                                     | Vials only, clear glass, round bottom  |
| 220-94855-10 | 20mL headspace vial only, crimp cap style, with write-on patch and fill lines, 100/pk | Vials only, clear glass, beveled top and round bottom; use with stopper style septa 220-94855-20 |

## Caps and Septa Set (No Vials)

| Part #       | Description   | Notes  |
|--------------|---|--|
| 220-97331-04 | 18mm Magnetic Universal Screw Cap, Silicone/PTFE septa, 100/pk  | Magnetic caps  |
| 220-97331-05 | 20mm Magnetic Bimetallic Crimp Cap, Silicone/PTFE septa, 100/pk | Magnetic caps  |
| 220-97331-06 | 20mm Aluminum Crimp Cap, Silicone/PTFE septa, 100/pk            | Non-magnetic caps, not compatible with AOC-6000/5000 |
| 220-94906-31 | 20mm Aluminum Crimp Cap, Butyl/PTFE septa, 100/pk               | Non-magnetic caps, not compatible with AOC-6000/5000 |

## Caps Only (No Septa)

| Part #       | Description                        | Notes   |
|--------------|------------------------------------|---|
| 220-94855-30 | Aluminum crimp caps, 100/pk        | Non-magnetic caps, not compatible with AOC-6000/5000; caps only, septa not included           |
| 220-94906-33 | Heat-resistant crimp caps, 1000/pk | 300C max; caps only, septa not included; Non-magnetic caps, not compatible with AOC-6000/5000 |

## Septa Only (No Caps)

| Part #       | Description                                  | Notes   |
|--------------|--|---|
| 220-94906-32 | Heat-resistant septa for headspace vials     | Septa only, 300C max, 250/pk; caps not included |
| 220-94855-20 | 20mm grey butyl rubber septa (stopper style) | Septa only, caps not included                   |

## Replacement Needles

| Part #       | Description               | Notes |
|--------------|---------------------------|-------|
| 225-11238-41 | Deactivated needle, HS-20 |       |
| 221-76863-01 | Deactivated needle, HS-10 |       |

## | HS-20 Traps

| Part #       | Description  | Notes |
|--------------|--|-------|
| 225-23328-41 | Trap tube, Tenax TA, for HS-20 and TD-30                 |       |
| 225-23328-42 | Trap tube, Carbopack Carbosieve, for HS-20 and TD-30     |       |
| 223-54144-92 | Trap tube, Carboxen, for HS-20 and TD-30                 |       |
| 223-54423-91 | Graphite Ferrule, 1/8-in, for connecting TRAP tube (2pc) |       |

## | Liner and Septa for HS-10

| Part #       | Description                 | Notes   |
|--------------|-----------------------------|---|
| 221-76863-73 | Inlet liner for HS-10, 5/pk | Straight-through glass liner without wool, 1.2mm ID to minimize peak broadening |
| 221-76863-96 | Septum, perforated, HS-10   |   |

## | Tools and Accessories

| Part #       | Description   | Notes  |
|--------------|---|--|
| 220-94906-40 | HS-10/20 vial crimping tool                                       | For manual crimping of 10 or 20mL headspace vials  |
| 220-94906-41 | HS-10/20 vial decapping tool                                      | For manual decapping of 10 or 20mL headspace vials   |
| 220-94906-42 | HS-10/HS-20 vial rack for 10 or 20mL headspace vials, single rack | 25 vial capacity, Acrylic  |
| REST-22643   | Vial Rack for 10 or 20ml headspace vials, single rack             | 36 Vial Capacity, Polypropylene  |
| REST-22644   | Vial Rack for 10 or 20ml headspace vials, 5/pk                    | 180 Vial Capacity, Polypropylene   |
| 221-76863-68 | HS-10 Earthquake-Resistant Kit                                    | Brackets for fixing HS-10 to bench to prevent it from falling down due to intense shaking such as in the event of an earthquake. |

## | Nuts and Ferrules for HS-20 Column Connection

| Part #       | Description  | Notes  |
|--------------|--|--|
| 670-11009-00 | Nut, 1/16-in, 5/pk                                   | For connecting the column to HS-20 and TD-30 (not for HS-10)               |
| 220-90418-14 | Graphite Vespel ferrule for 0.25 mm column, 10/pk    | For connecting the column to HS-20 and TD-30 (not for HS-10)               |
| 220-90418-15 | Graphite Vespel ferrule for 0.32 mm column, 10/pk    | For connecting the column to HS-20 and TD-30 (not for HS-10)               |
| 220-90418-18 | Graphite Vespel ferrule for 0.53 mm column, 10/pk    | For connecting the column to HS-20 and TD-30 (not for HS-10)               |
| 220-90418-44 | Graphite Vespel ferrule, 2-hole, 2 X 0.4mm ID, 10/PK | For dual 0.25mm column; For connecting the column to HS-20 (not for HS-10) |
| 220-90418-55 | Graphite Vespel ferrule, 2-hole, 2 X 0.5mm ID, 5/PK  | For dual 0.32mm column; For connecting the column to HS-20 (not for HS-10) |

## | Nuts and Ferrules for HS-10 Column Connection

| Part #       | Description                                 | Notes  |
|--------------|---|--|
| 221-32705-00 | Column nut for Split/splitless injector, ea | Slotted nut for column connection on injection port and detector side for GC |
| 220-90765-00 | Ferrule, 0.4mm, 10/pk                       | Graphite ferrules, for 0.25mm columns  |
| 221-32126-05 | Ferrule, 0.5mm, 10/pk                       | Graphite ferrules, for 0.25mm-0.32mm columns                                 |
| 221-32126-08 | Ferrule, 0.8mm, 10/pk                       | Graphite ferrules, for 0.53mm columns  |

## | Connection Cables

| Part #       | Description                        | Notes   |
|--------------|------------------------------------|---|
| 220-97301-04 | USB Cable, A to B, 6ft.            | For communication of instrument with PC   |
| 225-31264-91 | GC-Ready Cable for AOC-20i & HS-10 | For simultaneous connection of AOC-20i and HS-10 to GC-2014 and GC-2010; not needed for GC-2030 |
| 225-23415-91 | GC-Ready Cable for AOC-20i & HS-20 | For simultaneous connection of AOC-20i and HS-20 to GC-2014 and GC-2010; not needed for GC-2030 |

# TD-30 Series Thermal Desorption Sampler



## | Tubes, O-rings and Caps

| Part #       | Description  | Notes   |
|--------------|--|---|
| 223-57104-41 | Start up Kit, TD-30                                | Contains 10 Tenax tubes, 20 caps with O-rings, 5 Kalrez O-rings & 10 PTFE O-rings |
| 223-57119-00 | Glass tube, empty, ea                              | Caps not included   |
| 223-57102-91 | Glass tube, TENAX TA with wool, ea                 | Caps not included   |
| 223-54617-41 | Caps for tubes, TD-30, 20/pk                       | Aluminum, with O-ring   |
| 223-57166-91 | O-ring for seal block and caps, PTFE coated, 20/pk | For use at room temperature   |
| 036-15680-09 | Kalrez O-ring for the joint, ea                    | Heat-resistant  |

### TD-30 Traps

- See HS section: HS-20 Trap

### Nuts and Ferrules for TD-30 Column Connection

- See HS section: Nuts and ferrules for HS-20 column connection



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