

## Shimadzu ICPE-9000 Instrument Accessories

| <u>Shimadzu</u>   | <u>Meinhard</u> | <u>Description</u>   |
|---|-----------------|--|
| <b>Nebulizers</b>   |                 |  |
| <i>All Meinhard nebulizers come standard with the revolutionary new PFA gas and sample fitting system. The "FG" offers the benefits of an easy-to-use quick connect while maintaining high purity for sensitive ICP applications.</i> |                 |  |
| Quartz  | SILQ-50-A0.5    | SilQ+ Ultra-high Purity Quartz Nebulizer, lowest contamination for Al, Fe, K. For use with all standard non-HF applications.   |
| Quartz  | TQP-50-A0.5     | TQ+ Quartz Nebulizer, low blank levels compared to glass nebulizers. For use with all standard non-HF applications.  |
| Glass<br>(046-00092-20)   | TR-50-K1        | For high concentration samples, with high efficiency nebulization. Meinhard Type K, Glass, 50 psi (3.4bar/345kPA) Flow Rate::1 mL/min (Standard)                                       |
| Glass<br>(046-00092-21)   | TR-50-A0.5      | For high efficiency nebulization. Meinhard Type A, Glass, 50 PSI (3.4 bar/345 kPA) Flow Rate::0.5 mL/min   |
| Glass   | TRP-50-A0.5     | Plus Series glass concentric nebulizer, Type A. 1 L/min and 0.5 mL/min @ 50 psig (3.4 bar). 0.7 mm (0.030") inlet for low internal dead volume.  |
| PFA-ST  | ME2040-95       | PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector.  |
| PFA   | ME2030-95       | PFA MicroFlow high solids large bore nebulizer with external 1/4-28 threaded connector. Ideal for strong acids, high solids, alkalis, organic solvents, soils and high salt solutions. |
| PFA-ST3   | MEST3-70        | PFA-ST3 MicroFlow nebulizer with external 1/4-28 threaded connector. Designed for superior clog resistance and higher sensitivity compared to the standard PFA nebulizer.              |
| PolyPro-ST  | ME4040-95       | Poly-pro self-aspirating nebulizer with external 1/4-28 threaded connector   |
| Cleaner - PFA   | SC-0599-0109    | Syringe flush kit. Includes 3 mL syringe, two luer to 1/4-28 adapters.   |
| Cleaner   | PRL-02          | Cleaning tool for all quartz and glass concentric nebulizers   |
| Obstruction Removal   | ME2046-0001     | Fused silica obstruction removal kit for ST-type nebulizers. Includes one guide, 10 pieces of fused silica and instructions.   |
| (046-00092-18)  | F5-50           | Fit Kit F5 for Standard Bore Meinhard nebulizer, standard integrated capillary, 0.50 mm ID (orange marker) x 70 cm PTFE  |
| PEEK<br>(046-00092-14)  | PMM4000         | PEEK material, standard pressure (45 psi), low sample flow, enhanced parallel path design. Can operate on 0.2 ml/min to 2.5 ml/min.  |

### Spray Chambers and Accessories

|              |                |  |
|--------------|----------------|--|
| 046-00093-92 | ML116020ES     | Cyclonic spray chamber, non-baffle, with gravity drain, standard                       |
| Glass        | ML160021       | Gravity drain "S" trap   |
| Quartz       | ME3150-1000-10 | O-ring free, non-baffle, cyclonic spray chamber with threaded drain port               |
| Quartz       | ME3150-1010-10 | O-ring free, 7mm baffled cyclonic spray chamber with threaded drain port               |
| Glass        | ME3150-4010-10 | O-ring free, 7mm baffled cyclonic spray chamber with threaded drain port               |
| PFA          | ME3150-3010-10 | O-ring free, PFA baffled cyclonic spray chamber  |
| PFA          | M195           | PFA 47mm M100 spray chamber with o-ring free PFA endcap, drain line included.          |
| Quartz / PFA | ME5510         | Adapter - Connects ESI spray chamber to Shimadzu injectors (12/5 socket)               |
| PFA          | ME2127-0341    | Adapter - HF resistant - Connects ESI PFA chambers to Shimadzu injectors (12/5 socket) |
| 210-15508-01 | MLCG15002      | 12/5 ball/socket clamp, stainless steel, with lock                                     |

### Torches and Components

|              |          |  |
|--------------|----------|--|
| 211-81448    | ML160008 | One-piece mini quartz torch, 1.5mm injector, standard                        |
| 204-74323    | ML160010 | One-piece quartz torch, 1.8mm injector for high-concentration salt solutions |
| 204-70272    | ML160005 | One-piece quartz torch, 1.5mm injector for organic solvent solutions         |
| 204-77296    | ML160011 | One-piece quartz torch, 1.0mm injector for difficult organic solvent samples |
| 205-09627-01 | ML160015 | Demountable o-ring free quartz torch for HF sample injection                 |
|              | ML160014 | Demountable o-ring free mini quartz torch for HF sample injection, low Ar    |

### Kits and Accessories

|               |   |
|---------------|---|
| PRG-01-MAPlus | <i>pergo</i> high solids accessory with TQ+ MEINHARD® nebulizer. The <i>pergo</i> improves performance of all MEINHARD® nebulizers for the routine analysis of brines, fusion digests and other high TDS samples. |
| PRG-01        | <i>pergo</i> argon high solids accessory. Includes nebulizer gas line   |
| ME7000-0101   | 100-200 uL pre-cleaned PFA Pure Tip pipette tips (10 pack)  |
| ME7000-0111   | 100-200 uL pre-cleaned PFA Pure Tip pipette tips (96 pack)  |
| ME7000-1001   | 1000 uL pre-cleaned PFA Pure Tip pipette tips (10 pack)   |