

Thermo iCap 6000 Series Parts & Consumables

<u>Thermo</u>	<u>Meinhard</u>	<u>Description</u>
<i>Nebulizers and Accessories</i>		
Glass (842312051431)	TR-30-K2	Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2mL/min, 0.7 mL/min @30psi.
Glass	TR-50-A2	Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 2mL/min, 1L/min @ 50psi
Glass (842312051331)	TR-50-C2	Type C glass nebulizer, polished, recessed (0.5mm) capillary, high solids, nominal uptake 2mL/min, 1L/min @ 50psi
Glass (842312051321)	MP080963	V-Groove nebulizer, Noordermeer, 6mm od, 30 psi
PFA	ME2040	MicroFlow PFA-ST self-aspirating nebulizer with external ¼-28 threaded connector. Includes one 400µl/min capillary.
Poly-Pro	ME4040	PolyPro-ST self-aspirating nebulizer with external ¼-28 threaded connector. Includes one 400µl/min capillary.
PEEK (842312051471)	PMM4000	PEEK MiraMist high solids nebulizer. Includes an argon line and sample capillary.
PEEK	AM5000	PEEK AriMist low flow medium solids. Includes an argon line and sample capillary.
Cleaner	PRL-02	Cleaning tool for all quartz and glass concentric nebulizers
Cleaner	ME2046-0001	Nebulizer Obstruction Removal Kit for ST Nebulizers

<i>Torches, Center Tubes and Accessories</i>		
842312051591	ML128073	Sleeve for Duo Torch
842312051741	ML128052	Quartz EMT Radial Torch
842312051841	ML128050	Quartz EMT Duo Torch
842312051941	ML128070	Quartz EMT Center Tube 1mm ID
842312051951	ML128071	Quartz EMT Center Tube 1.5mm ID
842312051971	ML128072	Quartz EMT Center Tube 2mm ID
842312051401	MM12051401	Sampling O-Ring Kit (for Tulip and EMT Torches)
842312051141	ML128005	Quartz Radial Torch (Tulip)
842312051241	ML128007	Quartz Duo Torch (Tulip)
842312051341	ML128040	Quartz Center Tube 1mm ID (Tulip Torch)
842312051351	ML128041	Quartz Center Tube 1.5mm ID (Tulip Torch)
842312051371	ML128042	Quartz Center Tube 2mm ID (Tulip Torch)

<i>Spray Chambers and Accessories</i>		
842312051151	ML128040	Radial Spray Chamber Adapter
842312051251	ML128021	Duo Spray Chamber Adapter
842312051311	ML128012	Organics Spray Chamber, with baffle
842312051411	ML128010	Standard Glass Cyclonic Spray Chamber, No Baffle
842312051311(ES)	ML128012ES	ML128012 Chamber with baffle and Easy-Seal threaded nebulizer inlet and PFA cap
842312051411(ES)	ML128010ES	ML128010 Chamber with baffle and Easy-Seal threaded nebulizer inlet and PFA cap
	MP500QD	Internal Liquid Fitting for Spray Chamber Drain
	ME3188-3016-10	Baffled, PFA cyclonic spray chamber with 18/9 socket connection

<i>Tubing - More Material Options and Sizes available at www.Meinhard.com</i>		
842312051511	PVCSD-25	PVC 2-stop pump tubing, 0.025" (0.635mm) ID, Orange/White, 12/Pk.
	PVCSD-25-F	PVC 2-stop pump tubing, 0.025" (0.635mm) ID, Orange/White, 12/Pk. Flared
842312051521	PVCSD-40	PVC 2-stop pump tubing, 0.040" (1.016mm) ID, White/White, 12/Pk.
	PVCSD-40-F	PVC 2-stop pump tubing, 0.040" (1.016mm) ID, White/White, 12/Pk. Flared
842312051531	Viton-25	Viton 2-stop pump tubing, 0.025" (0.635 mm) ID, Orange/White, 12/Pk.
842312051541	Viton-40	Viton 2-stop pump tubing, 0.040" (1.016mm) ID, White/White, 12/Pk

Optional Accessories

pergo Argon Nebulizer Gas Humidifier

The *pergo* improves performance of all MEINHARD® nebulizers for the routine analysis of brines, fusion digests and other high TDS samples. A high-pressure membrane positioned inside a temperature-controlled water reservoir perfuses water vapor into the ICPMS nebulizer gas stream. By increasing humidity in the argon nebulizer gas, the *pergo* prevents salt deposits at the nebulizer tip, improving short and long-term signal stability.

Benefits:

Improved RSDs	Ability to use high sensitivity nebulizers for high TDS samples
Improved short and long-term stability	Reduce long-term drift
Improved detection limits	Extends the length of analytical runs
Faster washout	

The unique *pergo* design offers many advantages over other types of Argon Nebulizer Gas Humidifiers.

Advantages:

- Higher, more consistent humidity
- Superior long-term stability for high TDS samples
- Safe and easy to use
 - Atmospheric pressure water reservoir
- Optional USB communication for programmable humidity levels

PFA Upgrade Kit

Easy to install, inert, high purity, o-ring-free upgrade kit which includes two PFA MicroFlow nebulizers, PureCap endcap, 35mm or 47mm PureChamber PFA spray chamber, adapter, o-ring-free injector and precision quartz torch. A reliable ultra pure analysis technology to complement ICP-MS systems.

- Easy installation on most ICP-OES & ICP-MS systems
- Clean Teflon® PFA components for lower background equivalent concentration (BEC) and detection limits
- O-ring-free connections—ensures lowest BEC's, highest chemical resistance and easy cleaning
- Chemically resistant—suitable for nearly all samples, including strong acids, alkalis and organic solvents
- Sapphire or platinum injector
- Two self-aspirated or pumped PFA nebulizers included
- Low sample consumption—ideal for VPD and pre-concentrated samples

All PFA upgrade kits include:

2 PFA self-aspirating MicroFlow Nebulizer	1 Precision Quartz torch
1 PFA o-ring-free PureCap endcap	1 HF resistant injector
1 PFA PureChamber spray chamber	All gas lines and connectors

Elemental Standards

NIST-Traceable Standards

Elemental Scientific offers single element standards, single element kits, common standard mixes, custom standards as well as metal-organic standards. Single and custom element standards are offered from two premier standards manufacturers, providing the ease of purchasing primary and secondary standards with the confidence of two independently-certified sources. Standards are shipped with Certificate of Analysis and MSDS sheets.

Quality Assurance

Our standards have the following accreditations and certifications.

NIST-traceable to SRM 3100 Series	ISO 17025 Accredited
ISO 9001 Certified	ISO Guide 34 Accredited