



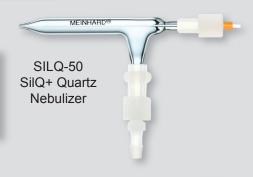
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Spectro EOP ICP Instruments

Quartz Nebulizers

Description	ESI P/N
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, 0.5 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line	SILQ-50
MEINHARD® Type C concentric quartz nebulizer, polished, recessed (0.5 mm) capillary, low background, high solids, 1 mL/min and 1 L/min @ 30 psi	TQ-30-C1



Glass Nebulizers

Description	ESI P/N
MEINHARD® Type A glass nebulizer, lapped flush nozzle, borosilicate glass, general purpose, 1mL/min and 1L/min @ 30PSI	TR-30-A1
MEINHARD® Type K glass nebulizer, 2 mL/min @ 30 PSI	TR-30-K2
MEINHARD® Type C glass nebulizer, 1 mL/min, polished, recessed (0.5 mm) capillary, high solids, 1 mL/min and 1 L/min @ 30 PSI	TR-30-C1



PEEK Nebulizers

Description	ESI P/N
PEEK MiraMist nebulizer	PMM4000



PFA Nebulizers

Description	ESI P/N
MicroFlow PFA-ST self-aspirating nebulizer with external ½-28 threaded connector. Includes one 400μl/min capillary.	ES-2040-28
PFA MicroFlow high solids large bore nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ES-2030-28



Poly-Pro Nebulizer

Description	ESI P/N
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ES-4040-28



ES-4040-28 PolyPro-ST Nebulizer

Nebulizer Cleaner

Description	ESI P/N
Pearl Nebulizer Cleaner for all guartz and glass concentric nebulizers	PRL-01



Liquid Inlet Fitting

Description	ESI P/N
Liquid inlet fitting and argon tubing with quick disconnect for TR-30-C1	MM175100



MM175100 Liquid Inlet Fitting

pergo Nebulizer Gas Humidifier

Description	ESI P/N
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01



ML175031 Pyrex Socket Adapter

Cyclonic Spray Chambers

Description	ESI P/N
Cyclonic spray chamber, top socket, pump drain	ML175026
Cyclonic spray chamber, top socket, pump drain with Easy Seal threaded inlet and Teflon® PFA cap	ML175026ES
Cyclonic spray chamber, end-on plasma (EOP), pump drain	ML175026EOP
Cyclonic spray chamber, top socket, pump drain with Easy-Seal threaded inlet and Teflon® PFA Cap	ML175026EOP-ES
Quartz Cyclonic Spray Chamber, Socket	ML175026Q
Quartz Cyclonic Spray Chamber, Jacketed, Threaded Ports	ML175026QJ
Quartz Cyclonic Spray Chamber for PC ³ Peltier cooler	ES-3167-1011



PC³ Peltier Cooler

Description	ESI P/N
PC³ Peltier cooler for Spectro EOP. Includes a quartz cyclonic spray chamber.	ES-4167-1011



ES-4167-1011 PC³ Peltier Cooler

Quartz Injectors, Demountable

Description	ESI P/N	
Quartz injector, 1.5 mm	ML17502	1
Quartz injector, 1.8 mm	ML175022	2
Quartz injector, 2.5 mm	ML175023	3

See page 4 for quartz torch, demountable injector (ES-1702-EOP)

ML175021 Quartz Injector

Quartz One-Piece Torches

Description	ESI P/N
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 2.5 mm injector	ML175040
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 2.2 mm injector	ML175041
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 1.8 mm injector	ML175042
Quartz torch, end-on plasma (EOP), Axial, with sheath gas, fixed 3.2 mm injector	ML175047
Quartz torch, end-on plasma (EOP), Axial, with sheath gas, fixed 2.5 mm Injector	ML175048



SI

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Spectro EOP ICP Instruments

HF Resistant

Quartz Torch, Demountable Injector

Description	ESI P/N
Quartz torch, end-on plasma (EOP), Axial, demountable with flare, 80 mm Length	ES-1702-EOP



Sapphire Injectors, Demountable

Description	ESI P/N
Sapphire injector (EOP), HF resistant,1.5 mm	ES-1980-1150
Sapphire injector (EOP), HF resistant, 1.8 mm	ES-1980-1180
Sapphire injector (EOP), HF resistant, 2.5 mm	ES-1980-1250



PFA Spray Chamber Kit

Description	ESI P/N
HF resistant PFA spray chamber kit. Includes high sample flow PFA spray chamber with barbed exit port, polypropylene adapter for Spectro cross-flow nebulizer, ES-2100-2479 drain line, fittings, PFA barbed connector and 25 cm long tygon tubing 1/4" i.d.	ES-2100-2477



ES-2100-2477 PFA Spray Chamber Kit

PFA Spray Chamber

Description	ESI P/N
47 mm HF resistant PFA spray chamber with PFA PureCap endcap with additional	ES-2256-0470
gas port	



ES-2256-0470 47 mm PFA Spray Chamber

Tubing and Gas Connectors

Description	ESI P/N
Tubing and gas connectors	MM175055



MM175055 Tubing and gas connectors

Flared Peristaltic Pump Tubing

Description	ESI P/N
2-stop Tygon pump tubing, 0.38 mm ID, 2.0 mm flared (orange/green), 12 pc	ES-4397-1038
2-stop Tygon pump tubing, 0.89 mm ID, 2.0 mm flared, 151 mm bridge distance (orange/orange), 12 pc	ES-4397-1089
2-stop Tygon pump tubing, 1.30 mm ID, 2.0 mm flared, 151 mm bridge distance (grey/grey), 12 pc	ES-4397-1130



ES-4397-1089 2.0 mm Flared Pump Tubing

Peristaltic Pump Tubing

Description	ESI P/N
2-stop Tygon pump tubing, 1.30 mm ID, 151 mm bridge distance (grey/grey), 12 pc	ES-4398-1130
2-stop Tygon pump tubing, 1.75 mm ID, 151 mm bridge distance (blue/green), 12 pc	ES-4398-1175



ES-4398-1175 1.75 mm Pump Tubing

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Spectro SOP ICP-OES Instruments

Quartz Nebulizers

Description	ESI P/N
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, 0.5 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line	SILQ-50
MEINHARD® Type C concentric quartz nebulizer, polished, recessed (0.5 mm) capillary, low background, high solids, 1 mL/min and 1 L/min @ 30 psi	TQ-30-C1



Glass Nebulizers

Description	ESI P/N
MEINHARD® Type A glass nebulizer, lapped flush nozzle, borosilicate glass, general purpose, 1mL/min and 1L/min @ 30PSI	TR-30-A1
MEINHARD® Type K glass nebulizer, 2 mL/min @ 30 PSI	TR-30-K2
MEINHARD® Type C glass nebulizer, 1 mL/min, polished, recessed (0.5 mm) capillary, high solids, 1 mL/min and 1 L/min @ 30 PSI	TR-30-C1



PEEK Nebulizers

Description	ESI P/N
PEEK MiraMist nebulizer	PMM4000



PFA Nebulizers

Description	ESI P/N
MicroFlow PFA-ST self-aspirating nebulizer with external ½-28 threaded connector. Includes one 400μl/min capillary.	ES-2040-28
PFA MicroFlow high solids large bore nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ES-2030-28



Poly-Pro Nebulizer

Description	ESI P/N
PolyPro-ST self-aspirating nebulizer with external ¼-28 threaded connector.	ES-4040-28
Includes one 400µl/min capillary.	



ES-4040-28 PolyPro-ST Nebulizer

Nebulizer Cleaner

Description	ESI P/N
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-01



Liquid Inlet Fitting

Description		ESI P/N
Liquid inlet fitting and argon tubing with quick disconnect for	or TR-30-C1	MM175100



Description	ESI P/N
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01



Pyrex Socket Adapter

Description	ESI P/N
Spray chamber, slurry	ML175010
Spray chamber, upward conical open	ML175012
Spray chamber, large double pass	ML175014
Spray chamber, large, double pass, jacketed, threaded ports	ML175018



Description	ESI P/N
Cyclonic spray chamber, top socket, pump drain	ML175026
Cyclonic spray chamber, top socket, pump drain with Easy Seal threaded inlet and Teflon® PFA cap	ML175026ES
Quartz Cyclonic Spray Chamber, Socket	ML175026Q
Quartz Cyclonic Spray Chamber, Jacketed, Threaded Ports	ML175026QJ
Quartz Cyclonic Spray Chamber for PC³ Peltier cooler	ES-3167-1001



Description	ESI P/N
PC³ Peltier cooler for Spectro SOP. Includes a quartz cyclonic spray chamber.	ES-4167-1001



ES-4167-1001 PC³ Peltier Cooler

Description	ESI P/N
Quartz torch, Spectroflame, fixed injector 1.8 mm	ML175005
Quartz torch, Spectroflame, fixed injector 2.5 mm	ML175008
Quartz torch, Spectroflame, radial, fixed injector 1.0 mm	ML175007

ML175005 Quartz Torch

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Spectro SOP ICP-OES Instruments

Quartz Injectors, Demountable

Description	ESI P/N
Quartz injector, 1.5 mm	ML175021
Quartz injector, 1.8 mm	ML175022
Quartz injector, 2.5 mm	ML175023



HF Resistant

Sapphire Injectors

Description	ESI P/N
Sapphire injector (SOP), HF resistant, 1.5 mm	ES-1980-0150
Sapphire injector (SOP), HF resistant, 1.8 mm	ES-1980-0180
Sapphire injector (SOP), HF resistant, 2.5 mm	ES-1980-0250



Quartz Torch, Demountable Injector

Description	ESI P/N
Quartz torch, end-on plasma (EOP), Axial, demountable, no flare, 100 mm length	ES-1702-SOP
Quartz torch, radial, demountable, 80 mm Length	ML175006
Quartz torch, organic, does not include gas fittings	ML175009



PFA Spray Chamber Kit

Description	ESI P/N
HF resistant PFA spray chamber kit. Includes high sample flow PFA spray chamber with barbed exit port, polypropylene adapter for Spectro cross-flow nebulizer, ES-2100-2479 drain line, fittings, PFA barbed connector and 25 cm long tygon tubing 1/4" i.d.	ES-2100-2477



ES-2100-2477 PFA Spray Chamber Kit

PFA Spray Chamber

Description	ESI P/N
47 mm HF resistant PFA spray chamber with PFA PureCap endcap with additional	onal ES-2256-0470
gas port	



ES-2256-0470 47 mm PFA Spray Chamber

Tubing and Gas Connectors

Description	ESI P/N
Tubing and gas connectors	MM175055



MM175055 Tubing and gas connectors

Flared Peristaltic Pump Tubing

Description	ESI P/N
2-stop Tygon pump tubing, 0.38 mm ID, 2.0 mm flared (orange/green), 12 pc	ES-4397-1038
2-stop Tygon pump tubing, 0.89 mm ID, 2.0 mm flared, 151 mm bridge distance (orange/orange), 12 pc	ES-4397-1089
2-stop Tygon pump tubing, 1.30 mm ID, 2.0 mm flared, 151 mm bridge distance (grey/grey), 12 pc	ES-4397-1130



ES-4397-1089 2.0 mm Flared Pump Tubing

Peristaltic Pump Tubing

Description	ESI P/N
2-stop Tygon pump tubing, 1.30 mm ID, 151 mm bridge distance (grey/grey), 12 pc	ES-4398-1130
2-stop Tygon pump tubing, 1.75 mm ID, 151 mm bridge distance (blue/green), 12 pc	ES-4398-1175



ES-4398-1175 1.75 mm Pump Tubing

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MEINHARD®

NEW PLUS NEBULIZERS

with PFA FitKit Quick Connects



NEW Quartz and Glass Nebulizers with PFA FitKit

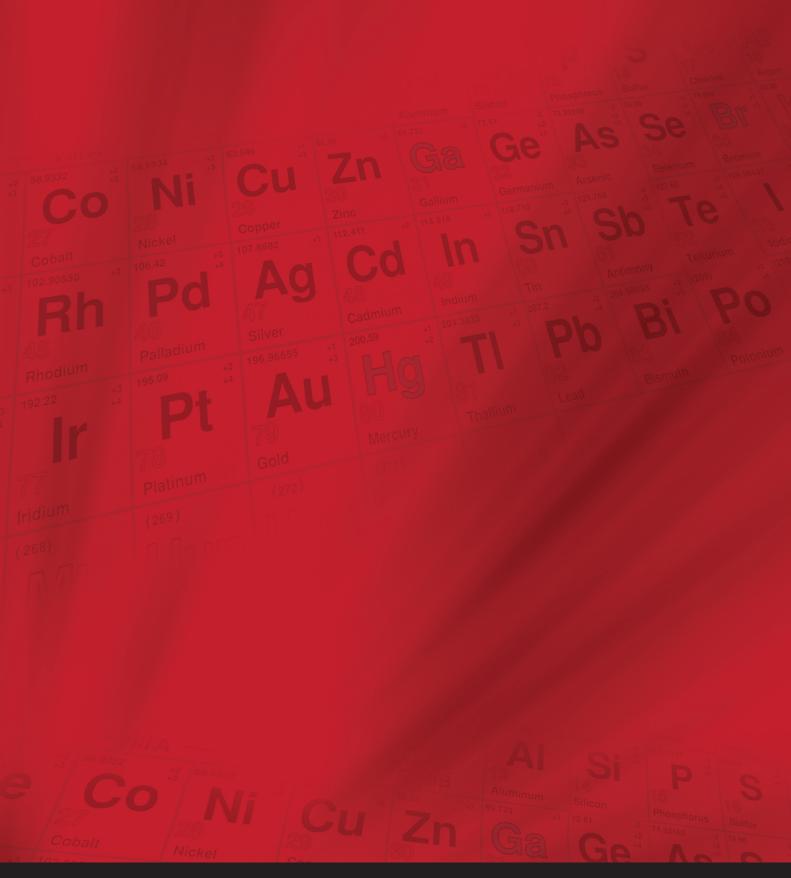
- SilQ+ High Purity Quartz Nebulizer
- TQ+ Quartz Nebulizer
- TR+ Glass Nebulizer



Enhance Your Detection Limits, Reduce Sample Contamination



NOTES	



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