

| 2020             |                  | Moolap Scientific P/L   | Price |
|------------------|------------------|---|-------|
| MOOSCI P/No.     | OEM P/N°         | Parts for Thermo Element 2 , XR and Neptune   | A \$  |
| SILQ-50-A0.5     |                  | MEINHARD SILQ+ Ultra High Purity quartz nebulizer, PFA fittings, uptake 0.5mL/min, 1mL/min@50 psi       | 990   |
| TQP-50-A0.5      |                  | MEINHARD TQ+ quartz nebulizer, high sensitivity, nominal uptake 0.5mL/min, 1L/min @ 50psi               | 640   |
| TQ-30-A0.5       |                  | MEINHARD Type A concentric quartz nebulizer, high sensitivity, nom. uptake 0.5mL/min, 1L/min @ 30psi    | 470   |
| TQ-30-A1         | 1110720          | MEINHARD Type A quartz nebulizer, high sensitivity, nom. uptake 1mL/min, 1L/min @ 50psi                 | 590   |
| TQ-50-A0.5       |                  | MEINHARD Type A concentric quartz nebulizer, high sensitivity, nom. uptake 0.5mL/min, 1L/min @ 50psi    | 590   |
| TQ-50-A1         |                  | MEINHARD Type A quartz nebulizer, high sensitivity, nom. uptake 1mL/min, 1L/min @ 50psi                 | 590   |
| TR-50-A0.5       |                  | MEINHARD Type A glass nebulizer, hi sensitivity, nom. uptake 0.5mL/min, 1L/min @ 50psi                  | 470   |
| TR-50-A1         |                  | MEINHARD Type A glass nebulizer, hi sensitivity, nom. uptake 1mL/min, 1L/min @ 50psi                    | 470   |
| TRP-50-A0.5      |                  | MEINHARD TR+ glass nebulizer, high sensitivity, nom. uptake 0.5mL/min, 1L/min @ 50psi                   | 590   |
| TR-30-A0.5       |                  | MEINHARD Type A glass nebulizer, general purpose, nom. uptake 0.5mL/min, 1L/min @ 30psi                 | 470   |
| TR-30-A1         |                  | MEINHARD Type A glass nebulizer, general purpose, nom. uptake 1mL/min, 1L/min @ 30psi                   | 470   |
| 8100-2051        | PRL-02           | 'PEARL' Cleaning Device for ALL types of concentric glass and quartz nebulizers                         | 295   |
| PRG-01           |                  | 'PERGO' argon humidifier, suits ALL nebulizers, based on hi-tech membrane permeation                    | 1490  |
| ME2040           |                  | PFA-ST HF-resistant concentric Nebulizer, with detachable 400uL/min sample uptake tube                  | 1370  |
| ME4040           |                  | PolyPro-ST self-aspirating nebulizer with external 1/8-28 threaded connector, nom. uptake 400uL/min.    | 720   |
| F4               |                  | Argon quick-connect for Meinhard nebulizers with PFA press-fit for 4mm tubing.                          | 70    |
| F4-52            |                  | Element/Neptune ICPMS nebulizer gas quick-connect with PFA press-fit for 4mm tubing                     | 75    |
| 2550-2020        | ES-2020-0002     | HF-resistant MicroFlow PFA Concentric Nebulizer, 20 ul/min uptake version                               | 1470  |
| 2550-2000        | 113 5450         | HF-resistant MicroFlow PFA Concentric Nebulizer, 50 ul/min uptake version, ES-2000-0002                 | 1390  |
| 2550-2001        | ES-2001-0002     | HF-resistant MicroFlow PFA Concentric Nebulizer, 75 ul/min uptake version                               | 1370  |
| 2550-2002        | ES-2002-0002     | HF-resistant MicroFlow PFA Concentric Nebulizer, 100 ul/min uptake version                              | 1370  |
| 2550-2003        | ES-2003-0002     | HF-resistant MicroFlow PFA Concentric Nebulizer, 200 ul/min uptake version                              | 1370  |
| 2550-2005        | ES-2005-0002     | HF-resistant MicroFlow PFA Concentric Nebulizer, 400 ul/min uptake version                              | 1370  |
| 2000-0100-080    | ES-2000-0100-080 | PFA-50 MicroFlow nebulizer with PEEK autosampler probe  | 1670  |
| 2002-0100-080    | ES-2002-0100-080 | PFA-100 MicroFlow nebulizer with PEEK autosampler probe   | 1670  |
| 2550-2028        | ES-4040          | PolyPro-ST HF-resistant concentric Nebulizer, with detachable sample uptake tube                        | 720   |
| 2550-2024-APEX   | ES-2002-7000     | PFA-100-APEX HF-resistant concentric Nebulizer for use with APEX  | 1430  |
| 2550-2024        | ES-2040          | PFA-ST HF-resistant concentric nebulizer, detachable sample tube (specify uptake when ordering)         | 1370  |
| 2550-2027-Aridus | ES-2040-0009     | PFA-ST-Aridus HF-resistant concentric Nebulizer for use with Aridus, with detachable sample tube        | 1430  |
| EP-2046-0011     | ES-2046-0001     | Silica Fibre Obstruction Removal Kit for PFA-ST and PolyPro-ST concentric nebulizers                    | 145   |
| 2550-2045        | ES-2045          | Detachable sample capillary tube, ID = 0,15mm., red marker, nominal uptake 20 ul/min.                   | 110   |
| 2550-2043        | ES-2043          | Detachable sample capillary tube, ID = 0,20mm., purple tag, nominal uptake 50 ul/min.                   | 110   |
| EP-2041-0754     | ES-2041-0754     | Detachable sample capillary tube, ID = 0,25mm., nominal uptake 75 ul/min.                               | 110   |
| 2550-2042        | ES-2042          | Detachable sample capillary tube, ID = 0,25mm., green tag, nominal uptake 100 ul/min.                   | 110   |
| 2550-2047        | ES-2047          | Detachable sample capillary tube, ID = 0,30mm., yellow tag, nominal uptake 200 ul/min.                  | 110   |
| 2550-2041        | ES-2041          | Detachable sample capillary tube, ID = 0,50mm., orange tag, nominal uptake 400 ul/min.                  | 110   |
| 2550-2044        | ES-2044          | Detachable sample capillary tube, ID = 0,50mm., blue tag, nominal uptake 700 ul/min.                    | 110   |
| 2550-2049        | ES-2049          | Detachable sample capillary tube, ID = 0,50mm., grey tag, nominal uptake 1000 ul/min.                   | 110   |
| 3150-0710        |                  | Teflon Burgener MiraMist Parallel-Path Nebulizer for Thermo Element ICPMS                               | 1370  |
| 3150-0720        | PMM4000          | PEEK Burgener MiraMist Parallel-Path Nebulizer for Thermo Element ICPMS                                 | 1250  |
|                  |                  | Capillaries with integrated probes - available for all common autosamplers                              |       |
|                  | <b>NOTE :</b>    | Meinhard, MOOSCI, EPOND and ESI HF-resistant spray chambers are free of internal coatings               |       |
| EP-3152-1018     | ES-3152-1018     | Baffled Quartz Cyclonic Spray Chamber, RS13/5 output, suits PC3   | 785   |
| 2085-0265        |                  | 'Electron' glass Mini-Cyclonic Spray Chamber, RS13/5 output, 4mm drain                                  | 690   |
| 2085-0265Q       | ES-3453-1108-09  | Quartz 'Electron' Mini-Cyclonic Spray Chamber, RS13/5 output  | 845   |
| 2085-0267Q       | ES-3453-1118-09  | Quartz 'Positron' Baffled Mini-Cyclonic Spray Chamber, RS13/5 output                                    | 845   |
| 2085-0170        |                  | Element 2 Water Cooled Pyrex Spray Chamber  | 995   |
| 2052-0300        |                  | PTFE End-Cap 35/6-mm Adaptor for Scott-type spray chamber   | 320   |
| 2085-0180        | ML185018         | Jacketed Quartz double-pass Spray Chamber, for Element 2, ML185018                                      | 895   |
| EP-4157-1000     | ES-4157-1000     | ESI 'PC3' Peltier-cooled Quartz Spray Chamber, with 12-Volt DC Power Supply                             | 3980  |
| EP-3152-1111-16  | ES-3152-1111-16  | Quartz O-ring free baffled cyclonic spray chamber, auxiliary gas port. For PC3 Cooler and ESI injector. | 870   |
| EP-9100-5400     | ES-9100-5400     | 'PC3-LT' Peltier-cooled Quartz Spray Chamber, low - temp. version ( -20 deg. C. )                       | 5590  |
| EP-4152-1111-2   | ES-4152-1111-2   | ESI 'PC3-SS' Enhanced-Stability Peltier-cooled Quartz Chamber, with Power Supply                        | 6760  |
| ES-5510-PFA      | ES-5510-PFA      | PFA ESI spray chamber outlet to RS12/5 adapter  | 165   |
| EP-2100-5471     | ES-2100-5471     | ESI 47mm PFA Spray Chamber and PureCap endcap   | 1590  |

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| EP-1002-1000        | ES-1002-1000    | O-ring free Precision Demountable Quartz torch   | 470         |
| ML185025            | ES-1001-0002    | Quartz Insulator Ring, L = 60 mm., EP#2085-0260, Finnigan P/No. 1136500                                  | 120         |
| EP-1024-1100        | ES-1024-1100    | Quartz Injector with PFA base, O-ring-free, ID = 1,0 mm  | 475         |
| EP-1024-1150        | ES-1024-1150    | Quartz Injector with PFA base, O-ring-free, ID = 1,5 mm  | 475         |
| EP-1024-1200        | ES-1024-1200    | Quartz Injector with PFA base, O-ring-free, ID = 2,0 mm ( ES-1024-1180 equivalent )                      | 475         |
| EP-1101-3107        | ES-1101-3107    | O-ring-free Platinum Shield Disc for ESI injector - extends PFA base lifetime                            | 320         |
| EP-1043-1200        |                 | Aumina Injector with PFA base, O-ring-free, ID = 2,0 mm  | 530         |
| EP-1003-0000        |                 | Sapphire Injector with PFA base, O-ring-free, ID = 1,0 or 1,8 mm   | 1290        |
| EP-1013-0000        |                 | Platinum Injector with PFA base, O-ring-free, ID = 1,8 or 2,0 mm   | 2285        |
| EP-2085-1002        | ES-1002         | CD-type standard Element 2 / Neptune quartz torch ( Thermo P/No. 1091250 )                               | 395         |
| 2085-2100           | 1122800         | Demountable Qz Injector for torch tube # 2085-0120, O-ring ball joint, ML185042, ID=1,8mm                | 535         |
| EP-1001             | ES-1001         | Torch Bonnet, quartz, L = 26 mm.   | 135         |
| 2045-0492           |                 | RS13/5 Female connector with 4-mm tube termination   | 135         |
| 2085-0120           | 1091250         | Standard Element II Demountable Torch, OEM Replacement, ES-1002  | 395         |
| 2085-0130           |                 | Injector kit - polymer base with Quartz Injector #2085-0140, Knurled external ring and RS12/5 ball joint | 380         |
| 2085-0140           |                 | Quartz Injector tube for use with Demountable Torch Base #2085-0130, ID=1,8mm                            | 250         |
| EP-1003-0100        | ES-1003-0100    | ESI Sapphire Injector for CD-type 12-mm torch, I.D. = 1.0 mm   | 1100        |
| EP-1003-0160        | ES-1003-0160    | ESI Sapphire Injector for CD-type 12-mm torch, I.D. = 1.6 mm   | 1100        |
| EP-1003-0180        | ES-1003-0180    | ESI Sapphire Injector for CD-type 12-mm torch, I.D. = 1.8 mm   | 1100        |
| EP-1003-0300        | ES-1003-0300    | ESI Sapphire Injector for CD-type 12-mm torch, I.D. = 3.0 mm   | 1100        |
| EP-1024-0100        | ES-1024-0100    | Quartz Injector with PFA base, with O-rings, ID = 1,0 mm   | 490         |
| EP-1024-0150        | ES-1024-0150    | Quartz Injector with PFA base, with O-rings, ID = 1,5 mm   | 490         |
| EP-1024-0180        | ES-1024-0180    | Quartz Injector with PFA base, with O-rings, ID = 1,8 mm   | 490         |
| EP-1013-0100        | ES-1013-0100    | ESI Platinum Injector for CD-type torch, I.D. = 1.0 mm, Thermo # 1184190                                 | 2690        |
| EP-1013-0150        | ES-1013-0150    | ESI Platinum Injector for CD-type torch, I.D. = 1.5 mm   | 2690        |
| EP-1013-0200        | ES-1013-0200    | ESI Platinum Injector for CD-type torch, I.D. = 2.0 mm, Thermo # 1092000                                 | 2690        |
| ML185040            | ES-1023-0100    | ESI Quartz Injector for CD-type 12-mm torch, I.D. = 1.0 mm, with 12/5 ball joint                         | 520         |
| ML185041            | ES-1023-0150    | ESI Quartz Injector for CD-type 12-mm torch, I.D. = 1.5 mm, with 12/5 ball joint                         | 520         |
| ML185042            | ES-1023-0200    | ESI Quartz Injector for CD-type 12-mm torch, I.D. = 1.8 mm, with 12/5 ball joint                         | 520         |
| ML185043            | ES-1023-0200    | ESI Quartz Injector for CD-type 12-mm torch, I.D. = 2.0 mm, with 12/5 ball joint                         | 520         |
| 2085-0310           |                 | Pyrex Ball/Socket Elbow at 30 degrees  | 75          |
| 2085-0320           |                 | Quartz Ball/Socket Elbow, at 30 degrees  | 95          |
| EP-4399-2002-51     | ES-4399-2002-51 | Quartz 'S-Adaptor' for adjusting height of Apex – torch connection                                       | 265         |
| EP-5445-4448        | ES-1001-0004    | Platinum torch guard shield, Length= 84 mm., Pt ring diam 20 mm., # 1126640, # MC-26640                  | 890         |
| <b>MOOSCI P/No.</b> | <b>OEM P/N°</b> | <b>DESCRIPTION of ICP-MS DETECTOR</b>  | <b>A \$</b> |
| MC-22600            | 1022600         | Element 1 Electron Multiplier Detector, MC-SEV-ICP   | 4970        |
| MC-14170            | 1114170         | Element 2 Electron Multiplier Detector, MC-SEV-ICP (Type 1, prior - March 2004)                          | 4390        |
| MC-52700            | 1152700         | Element 2 Electron Multiplier Detector, MC-SEV-ICP (Type 2, post - March 2004)                           | 4470        |
| EP-1152700          | 1152700         | Element XR Electron Multiplier Detector, MC-SEV-ICP  | 4430        |
| MC-AF150HM9         |                 | Mat262 Neptune and Triton detector, replacement for MC-AF180H  | 3490        |
| <b>MOOSCI P/No.</b> | <b>OEM P/N°</b> | <b>DESCRIPTION of CONES</b>  | <b>A \$</b> |
| MC-44530-AI         | 1044530-AI      | Aluminium Sampler Cone, ES-3000-1803, for Element 2 and Neptune  | 380         |
| MC-44530            | 1044530         | 100% Nickel Sampler, ES-3000-1802, for Element 2 and Neptune   | 390         |
| MC-60630            | 1260630         | Ni Jet Sampler cone for Finnigan Neptune   | 695         |
| 1044520             | 1044520         | Nickel Sampler with Cu Core, ES-3000-1801  | 455         |
| MC-67600-AI         | 1067600-AI      | Aluminium Skimmer cone, ES-3000-1805   | 265         |
| MC-67600            | 1067600         | Nickel skimmer cone (H) for Thermo Finnigan, ES-3000-1812  | 290         |
| MC-42160            | 1142160         | Nickel X-Skimmer cone, ES-3000-1820  | 295         |
| ES-3000-1806        |                 | Platinum sampler cone with Cu base, for Thermo Finnigan  | 2590        |
| ES-3000-1807        | 1067500         | Platinum sampler cone with Cu base and 6,4mm Pt insert, MC-67500   | 2275        |
| ES-3000-1808        | 1067501         | Platinum sampler cone with 100% Ni base for Thermo Finnigan, MC-67501                                    | 3070        |
| MC-47460            | 1047460         | Platinum skimmer (H) with 100% Ni base and 6mm Pt insert, ES-3000-1809                                   | 2270        |
| ES-3000-1822        | 1142151         | Platinum X-skimmer cone, for Thermo Finnigan   | 1790        |
| T1007-Pt            | 1047510         | Platinum Skimmer, Ni base, 7,6-mm Pt insert, ES-3000-1811  | 2590        |
| T1007-Pt/Cu         | 1047510         | Platinum Skimmer, Cu base, 7,6-mm Pt insert, ES-3000-1810  | 2590        |
| T1007X-Pt           | 1142150         | Platinum X-series Skimmer Cone, MC-42150   | 1770        |
| T5001               | 1042620         | Quantity 4 of, Graphite Gasket for Sampler cones, Thermo # 1042620                                       | 32          |
| MC-25680            | 1125680         | Platinum long-life Guard Electrode, for Element 1  | 1195        |
| EP-5445-4448        | 1126640         | Platinum torch guard shield, Length (total) = 84 mm., for Element 2 and Neptune, MC-26640                | 1195        |
| <b>MOOSCI P/No.</b> |                 | <b>RF Load Coils and other accessories</b>   | <b>A \$</b> |
| ES-2999-5220-SN     | 1139230         | RF Load Coil for Thermo Element/Neptune, SEREN generator, includes fittings, MC-39230                    | 390         |

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| ES-2999-5220-RP                                    | 1110780          | RF Load Coil for Thermo Element/Neptune, RFPP generator, includes fittings, MC-10780                 | 390         |
| ES-4309-2300                                       | ES-4309-2300     | Apex peristaltic pump module – replacement part  | 955         |
| ES-4399-9200                                       | ES-4399-9200     | Apex DC power supply   | 345         |
| ES-4399-1006                                       | ES-4399-1006     | Apex peristaltic pump tubes ( packet of 4 )  | 85          |
| EP-4300-0050                                       |                  | Capillink connectors for PTFE sample capillaries with ID=1,6mm, packet of 6                          | 180         |
| EP-2019-5500                                       |                  | EPOD 'AIR-BIP' monitor for gas in sample uptake capillaries - saves sample, time and argon           | 330         |
| <b>MOOSCI P/No.</b>                                |                  | <b>Autosamplers probes, nebulizers with probes</b>   | <b>A \$</b> |
| ES-5016-3200-080                                   | ES-5016-3200-080 | SC-autosampler probe flanged for -ST nebulizer, ID=0.20mm, PEEK support, ~ 50 ul/min., L = 80cm      | 390         |
| ES-5016-3250-100                                   | ES-5016-3250-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.25mm, PEEK support, ~ 100 ul/min., L = 100cm    | 390         |
| ES-5016-3500-120                                   | ES-5016-3500-120 | SC-autosampler probe flanged for -ST nebulizer, ID=0.50mm, PEEK support, ~ 400 ul/min., L = 120cm    | 390         |
| ES-5036-3200-080                                   | ES-5036-3200-080 | SC-autosampler probe flanged for -ST nebulizer, ID=0.20mm, Carbon Fibre, ~ 50 ul/min., L = 80cm      | 390         |
| ES-5036-3250-100                                   | ES-5036-3250-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.25mm, Carbon Fibre, ~ 100 ul/min., L = 100cm    | 390         |
| ES-5036-3500-120                                   | ES-5036-3500-120 | SC-autosampler probe flanged for -ST nebulizer, ID=0.50mm, Carbon Fibre, ~ 400 ul/min., L = 120cm    | 390         |
| ES-2002-3503-100                                   | ES-2002-3503-100 | PFA-100 Microflow Nebulizer, with Carbon Fiber probe for ESI SC Autosampler, 100 cm capillary        | 1590        |
| ES-2002-3513-100                                   | ES-2002-3513-100 | PFA-100 MicroFlow Nebulizer with Carbon Fiber probe (4"/100mm support) for ESI SC-Micro              | 1590        |
| ES-5027-3200-100                                   | ES-5027-3200-100 | SC-autosampler probe without flange, ID=0.20mm, Carbon Fibre support, ~ 50 ul/min., L=100cm          | 390         |
| ES-5027-3250-100                                   | ES-5027-3250-100 | SC-autosampler probe without flange, ID=0.25mm, Carbon Fibre support, ~ 100 ul/min., L=100cm         | 390         |
| ES-5027-3500-100                                   | ES-5027-3500-100 | SC-autosampler probe without flange, ID=0.50mm, Carbon Fibre support, ~ 400 ul/min., L=100cm         | 390         |
| ES-5056-3200-080                                   | ES-5056-3200-080 | SC-autosampler probe flanged for -ST nebulizer, ID=0.20mm, Ultem support, ~ 50 ul/min., L = 80cm     | 390         |
| ES-5056-3250-100                                   | ES-5056-3250-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.25mm, Ultem support, ~ 100 ul/min., L = 100cm   | 390         |
| ES-5056-3500-100                                   | ES-5056-3500-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.50mm, Ultem support, ~ 400 ul/min., L = 100cm   | 390         |
| ES-5037-3205-100                                   | ES-5037-3205-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.20mm, Carbon Fibre, ~ 50 ul/min., L=100cm       | 390         |
| ES-5037-3255-100                                   | ES-5037-3255-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.25mm, Carbon Fibre, ~ 100 ul/min., L=100cm      | 390         |
| ES-5037-3505-100                                   | ES-5037-3505-100 | SC-autosampler probe flanged for -ST nebulizer, ID=0.5mm, Carbon Fibre, ~ 400 ul/min., L=100cm       | 390         |
| SC-5037-3755-150                                   |                  | SC-FAST Probe, Carbon Fiber (175mm), blue tag, for SC-FAST high-flow valve, goes to port #5, L=150cm | 390         |
| SC-0319-03   |                  | Sample Loop for FAST system, 300uL, ID=0,8mm, blue marker  | 75          |
| SC-0319-15   |                  | Sample Loop for FAST system, 1500uL, ID=0,8mm, blue marker   | 75          |
| <b>MOOSCI P/No.</b>                                | <b>OEM P/No.</b> | <b>Adapters and peri-pump tubes</b>  | <b>A \$</b> |
| Tube-PVCSD-51                                      |                  | 2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc   | 36          |
| Tube-PVCSD-051-F                                   |                  | 2-stop PVC pump tubing, flared, 0.13 mm ID, (orange/black), 12 pc                                    | 59          |
| Tube-PVCSD-20-F                                    |                  | 2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc                                   | 59          |
| ERT-040  |                  | EPOD's renowned 'RubeTubes', sample tube connectors, packet of 40                                    | 165         |
| EP-4300-0050                                       |                  | Capillink connectors for PTFE sample capillaries with ID=1,6mm, packet of 6                          | 180         |
|  |                  | <i>custom reference solutions made to measure - on request</i>                                       |             |
| <a href="http://www.moosci.com">www.moosci.com</a> |                  |  |             |