

# PHI 710 Scanning Auger Nanoprobe

## Consumable Parts List

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| Part Number                    | Description                                                                                                                                                                            | Quantity |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>VACUUM SYSTEM</b>           |                                                                                                                                                                                        |          |
| <b>PUMPS</b>                   |                                                                                                                                                                                        |          |
| 2141400                        | Sublimator Filaments                                                                                                                                                                   | 1        |
| 630660                         | Di Ion Pump Elements (2 upper pump, 6 lower pump)                                                                                                                                      | 8        |
| 727970(PHI)<br>320531(Gamma)   | Triode Ion Pump Elements 240 l/s pump<br>Note: MPC Negative polarity board (P/N 727917) required for changing from Di elements to Triode requiring 4ea retaining brackets (P/N 805422) | 8        |
| 727971                         | Negative Polarity Board for MPC for triode pump elements                                                                                                                               | 1        |
| 628239                         | Rough Pump Oil-Type P3-5 Liter                                                                                                                                                         | 1 bottle |
| 710201                         | Rough Pump Oil-(Ulvac Pump)-4 Liter                                                                                                                                                    | 1 bottle |
| 648914                         | Rough Pump-Oil Mist Filter-Copper Sieve, 4"                                                                                                                                            | 1        |
| 725038                         | Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i                                                                                                                                    | 1        |
| <b>GAUGES</b>                  |                                                                                                                                                                                        |          |
| 705313                         | Convecron Gauge Tube, Varian                                                                                                                                                           | 1        |
| 705319                         | Ion Gauge, Nude (Upper Nipple & Main Chamber)                                                                                                                                          | 2        |
| 725351                         | Filament Replacement-Thoriated-Iridium (Varian)                                                                                                                                        | 1        |
| <b>GASES</b>                   |                                                                                                                                                                                        |          |
| 627206                         | Argon Lecture Bottle-1400 PSIG                                                                                                                                                         | 1        |
| <b>SEALS (Gaskets/O-Rings)</b> |                                                                                                                                                                                        |          |
| 725038                         | Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i                                                                                                                                    | 1        |
| 715074                         | Seal Kit-VAT Gate Valve (V1 Seal Kit)                                                                                                                                                  | 1        |
| 2680750                        | Gasket-Cu 1.33 OD Flange-Pkg 10                                                                                                                                                        | 1        |
| 2681500                        | Gasket-Cu 2.75 OD Flange-Pkg 10                                                                                                                                                        | 1        |
| 2682000                        | Gasket-Cu 3.38 OD Flange-Pkg 10                                                                                                                                                        | 1        |
| 2682500                        | Gasket-Cu 4.50 OD Flange-Pkg 10                                                                                                                                                        | 1        |

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|         |                                                             |   |
|---------|-------------------------------------------------------------|---|
| 2684000 | Gasket-Cu 6.00 OD Flange-Pkg 10                             | 1 |
| 2686000 | Gasket-Cu 8.00 OD Flange-Pkg 10                             | 1 |
| D76219  | Gasket-Cu 10.00 OD Flange-Pkg 1                             | 1 |
| 627684  | Gasket-Cu 4.50 OD/2.75 ID-Special gasket for Auger Analyzer | 1 |

## COMPONENT PARTS

|        |                                          |      |
|--------|------------------------------------------|------|
|        | <b>ANALYZER</b>                          |      |
| 649372 | Multi-Channel Detector-Channel Plates    | 1Set |
| 628779 | Multi-Channel Detector Anode-8 Channel   | 1    |
|        |                                          |      |
|        |                                          |      |
|        | <b>ELECTRON GUN</b>                      |      |
| 649384 | Thermal Field Emitter                    | 1    |
| 648718 | Aperture Plate                           | 1    |
|        | <b>SCINTILLATOR</b>                      |      |
| 710819 | Secondary Electron Detector-Scintillator | 1    |
|        |                                          |      |
|        | <b>ION GUNS</b>                          |      |
| 647104 | 06-350 Long Life Ionizer                 | 1    |
|        |                                          |      |

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| MISCELLANEOUS |                                                  |   |
|---------------|--------------------------------------------------|---|
|               | FUSES                                            |   |
| 609040        | Fuse, Pico, 1A, 125V, Radial                     | 5 |
| 171300        | Fuse-3AG, 0.50A, 250 V, Slo-Blo                  | 5 |
| 171302        | Fuse-3AG, 1.0A, 250 V, Slo-Blo                   | 5 |
| 171303        | Fuse-3AG, 1.50A, 250 V, Slo-Blo                  | 5 |
| 601265        | Fuse-3AG, 5.0A, 250 V, Slo-Blo                   | 5 |
| 628527        | Fuse, AB, 10A, 250 V                             | 5 |
| 628528        | Fuse, AB, 15A, 250 V                             | 5 |
| 1003791       | Fuse, AB, 0.25A, 250 V                           | 5 |
|               |                                                  |   |
|               | LAMPS/FOIL/BULBS                                 |   |
| 700256        | Aluminum Foil-18" Wide x 250 Foot Roll           | 1 |
| 710744        | Lamp-Halogen, JCR 12V-100W (Schott Light Source) | 1 |
|               |                                                  |   |
|               | SAMPLE PLATES                                    |   |
| 713036        | Model 191HC-Recessed Specimen Holder             | 1 |
| 716012        | Model 193G-Faraday Cup-Augur                     | 1 |
| 713034        | Model 190HC-Flat Specimen Holder                 | 1 |
| 716014        | Model 194D-Beam Diameter-Augur                   | 1 |
| 716010        | Model 202A-30° Sample Holder                     | 1 |
| 713038        | Model 260HC-Sample Holder-Flat-0.6cm             | 1 |
| 710896        | Holder-Sample, 710-HERO                          | 1 |
|               |                                                  |   |
|               | COMPUTER/PRINTER                                 |   |
|               | ALL PC AND PRINTER MEDIA ARE CONSUMABLE          |   |

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