

PHI nanoTOF II w/PHI LMIG

Consumable Parts List

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PHI nanoTOF II w/PHI LMIG

| Part Number | Description | Quantity |
|--------------------------|--|----------|
| BASE SYSTEM | | |
| PUMPS | | |
| 709080 | ION PUMP, 45 L/S, CONV, 4.5" CFF | 1 |
| 715518 | OIL RESERVOIR, HiPace 80 | 1 |
| 725038 | TIP SEAL KIT-EDWARDS SCROLL PUMP MODEL nXDS 15l | 1 |
| 730013 | Pump-Ion,37L/S, Noble, VIP55 w/Baffle (Agilent Spectrometer) | |
| 730014 | AGILENT ION PUMP FOR PHI LMIG, VACION PLUS 20 | 1 |
| 753243 | GAMMA ION PUMP FOR PHI LMIG, 25 L/S | 1 |
| 3282015 | ION PUMP, 15 L/S, DI, 2.75 FLANGE | 1 |
| GAUGES | | |
| 131-00010 | FIL-GAUGE, ION ELECT DEGASS, GRANVILLE-PHILLIPS-274025 | 1 |
| 705319 | VARIAN ION GAUGE | 1 |
| 725351 | VARIAN THORIA COATED IRIIDIUM FILAMENT KIT | 1 |
| 732790 | REPLACEMENT,FILAMENT FOR MKS392 | 1 |
| 804974 | MICRO-ION PLUS GAUGE REPLACEMENT FILAMENT | 1 |
| ION DETECTOR | | |
| 570-00005 | MCP, MATCHED SET, 25mm, HOT | 1 SET |
| 725355 | PHOSPHOR SCREEN | 1 |
| SAMPLE CHAMBER | | |
| 123-00002 | MULTIPLIER-ELECTRON, SEM DETECTOR | 1 |
| 715523 | SEAL-FRAME O-RING, MM100 | 1 |
| 729423 | O-RING, VITON (Intro Lid Seal) | 1 |
| ION NEUTRALIZER | | |
| 627206 | ARGON-LECTURE BOTTLE, 1400 PSI | 1 |
| 702056 | ASSEMBLY-IONIZER | 1 |
| E-GUN NEUTRALIZER | | |
| 805428 | ASSEMBLY-FOR E-GUN NEUTRALIZER-Y2O3 | 1 |

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| | SAMPLE STAGE | |
|---------------|---|----|
| 729415 | Ball-Zirconia (Stage HV Isolation) | 3 |
| | PHI LMIG COLUMN | |
| 708066 | ELECTRODE-CHICANE, STOP, LMIG | 1 |
| 804482 | APERTURES-STRIP, LMIG | 1 |
| 804483 | RETAINER-APERTURE STRIP | 1 |
| 804789 | O-RING-ISOLATION VALVE -009, .208ID, 0070W, VITON | 1 |
| 805844 | APERTURES-STRIP, INDUSTRIAL, LMIG | 1 |
| 805845 | APERTURES-STRIP, FIB-MSMS, LMIG | 1 |
| | PHI LMIG SOURCE TIPS | |
| 708101 | EXTRACTOR APERTURE INSERT | 1 |
| 708104 | TANTALUM APERTURE | 1 |
| 708270 | ASSEMBLY, EMITTER, GALLIUM, LMIG | 1 |
| 708274 | ASSEMBLY, EMITTER, GOLD, LMIG | 1 |
| 708281 | ASSEMBLY, TWISTED PAIR EMITTER, BISMUTH, LMIG | 1 |
| 730848 | ASSEMBLY, SINGLE NEEDLE EMITTER, BISMUTH, LMIG <i>Requires SmartTOF Software</i> | 1 |
| MISCELLANIOUS | | |
| | MISC PARTS | |
| 608892 | ASSY-GAS CYLINDER, OXYGEN | 1 |
| 622301 | LAMP-FOSTEC-150 WATT | 1 |
| 651110 | LAMP, HALOGEN, 150W, 120V | 1 |
| 700526 | ALUMINUM FOIL-18" WIDE X 250 FOOT ROLL | 1 |
| | GASKETS/O'RINGS | |
| 618134 | GASKET RET ASY CU4VCR2GR | 1 |
| 643672 | GASKET-Cu, 4.5 FLANGE, .10 THICK, CLEAN (5) | 1 |
| 724730 | GASKET, STAINLESS STEEL (SWAGELOK)-SS-4-VCR-2-GR | 10 |
| 728133 | INTRO SEAL-FRAMED O-RING-GLT60, ZAPT, MM100 | 1 |
| 1005161 | GSKT-ALT, 0665 X 4.50 FLANGE, 2.86 ID | 1 |

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| 2680750 | KIT-GASKET, 1.33 OD FLANGE, (10) | 1 |
| 2681500 | KIT-GASKET, 2.75 OD FLANGE, (10) | 1 |
| 2682000 | KIT-GASKET, 3.37 OD FLANGE, (10) | 1 |
| 2682500 | KIT-GASKET, 4.50 OD FLANGE, (10) | 1 |
| 2684000 | KIT-GASKET, 6.00 OD FLANGE, (10) | 1 |
| 2688000 | KIT-GASKET, 8.00 OD FLANGE, (10) | 1 |
| | FUSES | |
| 110-00017 | FUSE-5A, 250 V, S/B 5 X 20mm, IEC | 1 |
| 602634 | FUSE-0.2A, 250V, S/B, 5 X 20mm, IEC | 1 |
| 636478 | FUSE-10A, 250V, S/B 5 X 20, SHT5 | 1 |
| 641853 | FUSE-0.4A, 250V, S/B, 5 X 20mm, IEC | 1 |
| 750224 | FUSE-PICO, 1A, 125V, N/B, RDL, ROHS | 1 |
| 750225 | FUSE-PICO, 0.25A, 125V, N/B, RDL, ROHS | 1 |
| 750419 | FUSE-PICO, 2.5A, 125V, N/B, RDL, ROHS | 1 |
| 804231 | FUSE-MICRO,.050A,125V,V/F,RDL.ROHS-RBD PICOAMMETER | 1 |

| | | |
|--------|--------------------------------|---|
| | OPTIONAL HARDWARE | |
| | 20kV C60 SOURCE | |
| 706215 | C60 POWDER CARTIRIDGE 250mg | 1 |
| 707667 | C60 FILAMENT ASSEMBLY (E1487A) | 1 |
| 707673 | C60 TEMPERATURE SENSOR | 1 |
| 707679 | C60 HEATER | 1 |
| 707680 | C60 300µm APERTURE | 1 |
| 707681 | C60 100µm APERTURE | 1 |
| 707682 | C60 30µm APERTURE | 1 |
| 715518 | Hi Pace 80 Turbo Pump Oil Wick | 1 |
| | CESIUM SOURCE | |
| 623095 | GASKET-4.5" FLANGE | 1 |
| 644195 | ASSY-VALVE, CESIUM 5 GRAM | 1 |

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| 715008 | FRIT ASSEMBLY | 1 |
| | 06-360 ION GUN/ION NEUTRALIZER | |
| 627206 | ARGON-LECTURE BOTTLE, 1400 PSI | 1 |
| 627207 | OXYGEN-LECTURE BOTTLE, 1400 PSI | 1 |
| 647104 | ASSY-IONIZER (Long Life) | 1 |
| 700611 | ASSY-IONIZER, O2 | 1 |
| | GAS CLUSTER ION BEAM (GCIB) | |
| 244-00009 | FILTER-OIL MIST,KF25,ALCATEL | 1 |
| 622561 | Filter-Exhaust, Vac Pump, KF-16 | 2 |
| 623104 | Rough Pump-Oil Mist Filter-Copper Sieve, 4" | 2 |
| 628239 | Rough Pump Oil (Pfeiffer Pump) 5 liter | 1 |
| 644951 | 1.33" FEEDTHRU FLANGE | 1 |
| 709807 | SOURCE-CERAMIC INSULATOR | 1 |
| 709813 | LENS-CERAMIC INSULATOR | 1 |
| 715518 | HIPACE 80 TURBO PUMP OIL WICK | 1 |
| 715519 | HIPACE 300 TURBO PUMP OIL WICK | 1 |
| 715475 | SKIMMER, GCIB | 1 |
| 724730 | GASKET, STAINLESS STEEL (SWAGELOK)-SS-4-VCR-2-GR | 10 |
| 725677 | FILAMENT ASSEMBLY INSTALLATION KIT | 1 |
| | MS/MS | |
| 626235 | GASKET-2VCR | 1 |
| 704685 | PHOSPHOR SCREEN | 1 |
| 805322 | MULTIPLIER CHANNELPLATES | 1 |
| 851025 | RESISTOR 100KΩ | 1 |