

# PHI 5000 VersaProbe III

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This list pertains to VersaProbe III system Serial Number 66 and lower.

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## Consumable Parts List

| Part Number                       | Description   | Quantity     |
|-----------------------------------|---|--------------|
| <b>BASE SYSTEM</b>                |   |              |
| <b>PUMPS</b>                      |   |              |
| 244-00009                         | FILTER-OIL MIST,KF25,ALCATEL  | 1 / oil pump |
| 622561                            | Filter-Exhaust, Vac Pump, KF-16   | 1 / oil pump |
| 623104                            | Rough Pump-Oil Mist Filter-Copper Sieve, 4"   | 1            |
| 707256                            | Rough Pump Oil-(Ulvac Pump)-500 milliliter  | 1            |
| 710201                            | Rough Pump Oil-(Ulvac Pump)-4 liter   | 1 bottle     |
| 715518                            | Hi Pace 80 Turbo Pump Oil Wick  | 1 / pump     |
| 725038                            | Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i                                 | 1            |
| 730018                            | Agilent Titanium Sublimator Filaments   | 12 ea        |
| 730021                            | Agilent Noble Diode Ion Pump Elements   | 4 ea         |
| <b>GAUGES</b>                     |   |              |
| 6057676                           | Dual Thoria Coated Iridium Nude Ion Gauge Filament Replacement (Granville Phillips) | 1            |
| 627521                            | Convectron Gauge Tube (Granville Phillips-GP275185)                                 | 1            |
| 703699                            | Pfeiffer Compact FullRange BA Gauge, PBR-DN40CF                                     | 1            |
| 705313                            | Convectron Gauge Tube (Varian / XGS-600)  | 1            |
| 708437                            | Cold Cathode Gauge Tube, MKS903   | 1            |
| 725351                            | Filament Replacement-Thoriated-Iridium (Varian / XGS-600)                           | 1            |
| <b>ANALYZER</b>                   |   |              |
| 717032                            | Multi-Channel Detector-Channel Plates-50mm  | 1Set         |
| 757132                            | Multi-Channel Detector Anode-32 Channel   | 1            |
| <b>FIG-5B ION GUN</b>             |   |              |
| 627206                            | Argon Lecture Bottle-1400 PSIG  | 1            |
| 702056                            | FIG 05 Ionizer  | 1            |
| <b>MONOCHROMATED X-RAY SOURCE</b> |   |              |
| 625783                            | ASSY-XTAL/SUBSTRATE,ELLIPSOID   | 1            |
| 629888R                           | Al. Window Assy   | 1            |

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|        |  |          |
|--------|--|----------|
| 729614 | LaB6 Filament for X-Ray E-Gun  | 1        |
| 805331 | Anode Replacement Kit  | 1        |
|        | <b>NEUTRALIZER</b>   |          |
| 706491 | Neutralizer Filament Assembly-BaO (Rebuilt)  | 1        |
| 805398 | Neutralizer Filament Assembly-Tantalum (Rebuilt)   | 1        |
|        | If LEIPS option is installed see VP III S/N 67 and newer list  |          |
|        | <b>SAMPLE PLATENS and PARTS</b>  |          |
| 630152 | Mask-1mm Aperture  | 1        |
| 630153 | Mask-Flared, 1mm Aperture  | 1        |
| 630154 | Mask-2mm Aperture  | 1        |
| 630155 | Mask-Finger, 3mm Aperture  | 1        |
| 706457 | MOD 190HCP SAMPLE HOLDER,H/C,VERSAPREP   | Optional |
| 707475 | Model 193H-Faraday Cup-800 um raised FC for Hot/Cold Stage   | 1        |
| 713034 | Model 190HC-Sample Holder Flat   | 1        |
| 713036 | Model 191HC-Recessed Specimen Holder- <b>USE ONLY TITANIUM MOUNTING SCREWS(P/N 626376)</b>                       | 1        |
| 713038 | Model 260HC-Sample Holder-Flat- 6.0 cm   | 1        |
| 716012 | Model 193G-Faraday Cup-Auger-250 um recessed FC  | 1        |
| 720901 | Model 279HCA-Sample Holder For Angle Dependent studies   | 1        |
| 725652 | Model 190HC1 600 degree/-140 degrees- <b>USE ONLY TITANIUM MOUNTING SCREWS (P/N 717431-M2X3 AND 717432-M2X4)</b> | Optional |
| 725653 | Model 190HE1 800 Degree- <b>USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-m2X3)</b>                               | Optional |
| 727684 | 4 contact holder- <b>USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-M2X3)</b>                                      | Optional |
| 757381 | Assy Faraday Cup, 250um, raised H/C-Stage  | Optional |
| C72040 | Spring-Flat Formed Tip, 0.53L, BeCu  | 1        |

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| SAMPLES / CALIBRATION STANDARDS |   |    |
|---------------------------------|---|----|
| 629761                          | GRID-100 LPI,COPPER   | 1  |
| 631772                          | GRID-300 LPI,COPPER   | 1  |
| 631774                          | SAMPLE-TEST,CU,20X20MM  | 1  |
| 634528                          | SAMPLE-TEST,AG,20X20MM  | 1  |
| 705110                          | SAMPLE,SIO2,1000A,D100.0,T525   | 1  |
| 719985                          | SAMPLE-TEST,AU,12.5X12.5 MM   | 1  |
| 720953                          | PET FILM,.075MM,G2-75,A6 SIZE   | 1  |
| MISCELLANEOUS                   |   |    |
| MISC PARTS                      |   |    |
| 608892                          | O2 Gas Bottle-50cc 0.9MP  | 1  |
| 700526                          | Aluminum Foil-18" Wide x 250 Foot Roll  | 1  |
| 710744                          | Lamp-Halogen, JCR 12V-100W (Schott Light Source)  | 1  |
| 718083                          | Filter Cartridge for SMC Chiller  | 1  |
| 726866                          | Nikuni chiller pump Consumable parts kit containing Seal (726676) and O-Ring (726682) (Lytron or 16-500B w/ turbine pump) | 1  |
| 728891                          | High pressure pump for HRS012A20T (SMC Chiller)   | 1  |
| 728892                          | Mechanical seal set for HRS012A20T (SMC Chiller)  | 1  |
| 728893                          | Dustproof filter for HRS012A20T (SMC Chiller)   | 1  |
| Gaskets/O-Rings                 |   |    |
| 608141                          | Seal Helicoflex   | 1  |
| 618134                          | Gasket, CU-4-VCR  | 10 |
| 619165                          | Gasket-Cu 4.62 OD Flange-Pkg 10   | 1  |
| 623095                          | Gasket for Auger E-Gun-4.50" Flange-Special 2.86 ID   | 1  |
| 624725                          | O-Ring, Viton, Gas Inlet, 0.346 ID  | 1  |
| 626235                          | Gas Line Gasket Seal, CU-2-VCR  | 10 |
| 651561                          | Seal Kit-V1 Gate Valve (for 4.6" port, valve PN 650473)   | 1  |
| 703226                          | Gasket-CU 362mm OD Flange   | 5  |
| 715074                          | V1 Seal Kit-VAT Gate (for 6" port, valve PN 706550)   | 1  |
| 724730                          | Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR   | 10 |
| 725670                          | Seal Kit-VAT Gate Valve (for 4.62" port, valve PN 718091)   | 1  |

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|         |                                     |   |
|---------|-------------------------------------|---|
| 2680750 | Gasket-Cu 1.33 OD Flange-Pkg 10     | 1 |
| 2681500 | Gasket-Cu 2.75 OD Flange-Pkg 10     | 1 |
| 2682500 | Gasket-Cu 4.50 OD Flange-Pkg 10     | 1 |
| 2684000 | Gasket-Cu 6.00 OD Flange-Pkg 10     | 1 |
| 2686000 | Gasket-Cu 8.00 OD Flange-Pkg 10     | 1 |
|         | <b>FUSES</b>                        |   |
| 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 |
| 171304  | Fuse-3AG, 2.0A, 250V, Slow Blo      | 5 |
| 601265  | Fuse-3AG, 5.0A, 250 V, Slo-Blo      | 5 |
| 609040  | Fuse, Pico, 1A, 125V, Radial        | 5 |
| 639623  | FUSE-4A,250V,S/B,5X20,IEC,SHT5,ROHS | 5 |
| 750224  | FUSE-PICO,1A,125V,N/B,RDL,ROHS      | 5 |
| 750225  | FUSE-PICO,.25A,125V,N/B,RDL,ROHS    | 5 |
| 750392  | FUSE-.032A,250V,S/B,5MM,ROHS        | 5 |
| 750419  | FUSE-PICO,2.5A,125V,N/B,RDL,ROHS    | 5 |
| 750420  | FUSE-PICO,0.063A,125V,N/B,RDL,ROHS  | 5 |
| 750422  | FUSE-PICO,0.375A,125V,N/B,RDL,ROHS  | 5 |
| 752264  | FUSE-PICO,2.0A,125V,N/B,RDL,ROHS    | 5 |
| 752553  | FUSE-PICO,4.0A,125V,N/B,RDL,ROHS    | 5 |
| 752569  | FUSE-PICO,1.5A,125V,N/B,RDL,ROHS    | 5 |
| 752774  | FUSE-PICO,0.500A,125V,N/B,RDL,ROHS  | 5 |
| 753152  | FUSE-PICO,5.0A,125V,S/B,RDL,ROHS    | 5 |
|         | <b>OPTIONS</b>                      |   |
|         | <b>DUAL ANODE X-RAY SOURCE</b>      |   |
| 602229  | Football ceramic                    | 1 |
| 602508  | Frame Gridded Window                | 1 |
| 604029  | Al/Al for 04-548                    | 1 |
| 604030  | Al/Mg for 04-548                    | 1 |

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|           |   |              |
|-----------|---|--------------|
| 607910    | Frame Al/Be Gridded Window                          | 1            |
| 608308    | Zr/Mg for 04-548                                    | 1            |
| 620914    | DI Cartridge for SMC Chiller                        | 1            |
| 622275    | X-Ray Source Filament                               | 1            |
|           | <b>AUGER</b>  |              |
| 602914    | Channeltron SED Multiplier-Auger Option             | 1            |
| 623095    | Gasket for Auger E-Gun-4.50" Flange-Special 2.86 ID | 1            |
| 709120    | LaB6 Filament-Auger Option                          | 1            |
| 710818    | Scintillator-Crystal Phototube-Auger Option         | 1            |
| 710819    | Tip Scintillator                                    | 1            |
|           | <b>C60 ION GUN</b>                                  |              |
| 706215    | C60 Powder Cartridge 250 mg                         | 1            |
| 706218    | C60 Filament Assy. (E1121A) (10KV)                  | 1            |
| 707667    | C60 Filament Assy. (E1487A) (20KV)                  | 1            |
| 707673    | C60 Temperature Sensor (20KV)                       | 1            |
| 707679    | C60 Heater (20KV)                                   | 1            |
| 715518    | Hi Pace 80 Turbo Pump Oil Wick                      | 1            |
| 807194    | KIT-REPLACE,DIAPHRAGM, MVP 035                      | 1            |
| 807195    | KIT-REPLACE,DIAPHRAGM, MVP 040                      | 1            |
| 807196    | KIT-REPLACE,SILENCER,MVP 035/040                    | 1            |
| 807197    | KIT-REPLACE,RING,SEAL, MVP 035/040                  | 1            |
| 807198    | KIT-REPLACE,HOSE,MVP 035/040                        | 1            |
| 807199    | KIT-REPLACE,VALVE,BALLAST,MVP 035/040               | 1            |
| 807200    | KIT-REPLACE,FUSE, MVP 040                           | 1            |
|           | <b>MAIN CHAMBER TURBO PUMP</b>                      |              |
| 715521    | Hi Pace 700 Turbo Pump Oil Wick                     | 1            |
|           | <b>UV SOURCE</b>                                    |              |
| 244-00009 | FILTER-OIL MIST,KF25,ALCATEL                        | 1 / oil pump |
| 622561    | Filter-Exhaust, Vac Pump, KF-16                     | 1 / oil pump |
| 623104    | Rough Pump-Oil Mist Filter-Copper Sieve, 4"         | 1            |

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|           |   |    |
|-----------|---|----|
| 707146    | He Gas Bottle                                   | 1  |
| 713065    | Prevac UV Source Light Capillary                | 1  |
| 715518    | Hi Pace 80 Turbo Pump Oil Wick                  | 1  |
| 723867    | Prevac UV Source Anode                          | 1  |
| 728075    | Gauge-Tube Pirani, CF034                        | 1  |
| 807194    | KIT-REPLACE,DIAPHRAGM, MVP 035                  | 1  |
| 807195    | KIT-REPLACE,DIAPHRAGM, MVP 040                  | 1  |
| 807196    | KIT-REPLACE,SILENCER,MVP 035/040                | 1  |
| 807197    | KIT-REPLACE,RING,SEAL, MVP 035/040              | 1  |
| 807198    | KIT-REPLACE,HOSE,MVP 035/040                    | 1  |
| 807199    | KIT-REPLACE,VALVE,BALLAST,MVP 035/040           | 1  |
| 807200    | KIT-REPLACE,FUSE, MVP 040                       | 1  |
|           | <b>GAS CLUSTER ION BEAM (GCIB)</b>              |    |
| 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  |
| 715475    | Skimmer, GCIB                                   | 1  |
| 715518    | Hi Pace 80 Turbo Pump Oil Wick                  | 1  |
| 715519    | Hi Pace 300 Turbo Pump Oil Wick                 | 1  |
| 724730    | Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR | 10 |
| 725677    | Filament Assembly installation Kit-2 Turbo GCIB | 1  |
| 726202    | SAMPLE,PMMA,400NM,1/2                           | 1  |
| 733082    | GASKET VCR1/4 MESH                              | 1  |
| 244-00009 | FILTER-OIL MIST,KF25,ALCATEL                    | 1  |
|           | <b>VERSAPREP/VERSALOCK</b>                      |    |
| 703699    | Gauge, PBR-DN40CF                               | 1  |
| 715519    | Hi Pace 300 Turbo Pump Oil Wick                 | 1  |
|           | <b>DUAL TURBO</b>                               |    |
| 244-00009 | FILTER-OIL MIST,KF25,ALCATEL                    | 1  |
| 622561    | Filter-Exhaust, Vac Pump, KF-16                 | 1  |

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|        |   |   |
|--------|---|---|
| 623104 | Rough Pump-Oil Mist Filter-Copper Sieve, 4" | 1 |
| 715518 | Hi Pace 80 Turbo Pump Oil Wick              | 1 |
| 807194 | KIT-REPLACE,DIAPHRAGM, MVP 035              | 1 |
| 807195 | KIT-REPLACE,DIAPHRAGM, MVP 040              | 1 |
| 807196 | KIT-REPLACE,SILENCER,MVP 035/040            | 1 |
| 807197 | KIT-REPLACE,RING,SEAL, MVP 035/040          | 1 |
| 807198 | KIT-REPLACE,HOSE,MVP 035/040                | 1 |
| 807199 | KIT-REPLACE,VALVE,BALLAST,MVP 035/040       | 1 |
| 807200 | KIT-REPLACE,FUSE, MVP 040                   | 1 |

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