

# PHI 5000 VersaProbe III

Consumable Parts List .....	2
PUMPS.....	2
GAUGES.....	2
ANALYZER.....	2
FIG-5B ION GUN .....	2
MONOCHROMATED X-RAY SOURCE .....	2
NEUTRALIZER .....	3
SAMPLE PLATENS and PARTS.....	3
SAMPLES / CALIBRATION STANDARDS .....	4
MISCELLANEOUS .....	4
MISC PARTS .....	4
Gaskets/O-Rings.....	4
FUSES .....	5
OPTIONS.....	5
DUAL ANODE X-RAY SOURCE .....	5
AUGER .....	6
C60 ION GUN.....	6
MAIN CHAMBER TURBO PUMP .....	6
UV SOURCE .....	6
GAS CLUSTER ION BEAM (GCIB).....	7
VERSAPREP/VERSALOCK .....	7
DUAL TURBO .....	7

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

# PHI 5000 VersaProbe III

## 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

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

# PHI 5000 VersaProbe III

729614	LaB6 Filament for X-Ray E-Gun	1
805331	Anode Replacement Kit	1
	<b>NEUTRALIZER</b>	
706491	Neutralizer Filament Assembly-BaO2 (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>	
573601	Screw-Pan, M2.0 x 4, PHIL, SS	1
573604	Screw-Pan, M2.0 x 8, PHIL, SS	1
573606	Screw-Pan, M2.0 x 12, PHIL, SS	1
573607	Screw-Pan, M2.0 x 16, PHIL, SS	1
574803	Washer-Flat, M2, 2.2 ID, 5.0 OD, SST	1
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

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

# PHI 5000 VersaProbe III

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

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

## PHI 5000 VersaProbe III

2680750	Gasket-Cu 1.33 OD Flange-Pkg 10	1
2681500	Gasket-Cu 2.75 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
607910	Frame Al/Be Gridded Window	1

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

# PHI 5000 VersaProbe III

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
707146	He Gas Bottle	1

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

# PHI 5000 VersaProbe III

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
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
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

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

## PHI 5000 VersaProbe III

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

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