

PHI 5000 VersaProbe III

Consumable Parts List	2
VACUUM SYSTEM	2
PUMPS.....	2
GAUGES.....	2
GASES	2
SEALS (Gaskets/O-Rings).....	3
COMPONENT PARTS	4
ANALYZER.....	4
ION GUN.....	4
X-RAY MONOCHROMATOR.....	4
NEUTRALIZER	4
MISCELLANEOUS.....	5
FUSES.....	5
MISC	5
SAMPLE PLATES.....	6
COMPUTER/PRINTER	6
OPTIONS.....	7
DUAL ANODE X-RAY SOURCE	7
AUGER.....	7
C60 ION GUN.....	7
MAIN CHAMBER TURBO PUMP	7
UPS SOURCE.....	7
GAS CLUSTER ION BEAM (GCIB).....	8

PHI 5000 VersaProbe III

Consumable Parts List

Part Number	Description	Quantity
VACUUM SYSTEM		
PUMPS		
730018	Agilent Sublimator Filaments	12 ea
730021	Agilent Noble Diode Ion Pump Elements	4 ea
628239	Rough Pump Oil-Type P3-5 Liter (Pfeiffer Pump)	1 bottle
707256	Rough Pump Oil-(Ulvac Pump)-4 liter	1 bottle
623104	Rough Pump-Oil Mist Filter-Copper Sieve, 4"	1
715518	HiPace 80 Turbo Oil Wick *(1 per pump installed)	*
244-00009	Filter, Oil Mist Eliminator	1/oil pump
622561	Filter-Exhaust, Vac Pump, KF-16	1/oil pump
2382000	Molecular Seive Charge (Pfeiffer Pump Stations)	1
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1
GAUGES		
627521	Convectron Gauge Tube, Granville Phillips-GP275185	1
6057676	Dual Thoria Coated Iridium Nude Ion Gauge Filament Replacement	1
GASES		
627206	Argon Lecture Bottle-1400 PSIG	1
608892	O2 Gas Bottle-50cc 0.9MP	1
707146	GAS BOTTLE-HELIUM, 18L,11.8MP	1

PHI 5000 VersaProbe III

	SEALS (Gaskets/O-Rings)	
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1
651561	Seal Kit-V1 Gate Valve (For 4.6" port-Valve Part # 650473)	1
715074	V1 Seal Kit-VAT Gate (For 6" Port, valve PN 706550)	1
2680750	Gasket-Cu 1.33 OD Flange-Pkg 10	1
2681500	Gasket-Cu 2.75 OD Flange-Pkg 10	1
2682500	4.5 Inch OD Flange-Pkg 10	1
619165	Gasket-Cu 4.62 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
608141	Seal Helicoflex	1
624725	O-Ring, Viton, Gas Inlet, 0.346 ID	1
618134	Gasket, CU-4-VCR	10
626235	Gas Line Gasket Seal, CU-2-VCR	10
703226	Gasket-CU 362mm OD Flange	5
724730	Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR	10

PHI 5000 VersaProbe III

COMPONENT PARTS		
	ANALYZER	
717032	Multi-Channel Detector-Channel Plates-50mm	1Set
757132	Multi-Channel Detector Anode-32 Channel	1
	ION GUN	
702056	FIG 05 Ionizer	1
627206	Argon Lecture Bottle-1400 PSIG	1
724730	Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR	10
	X-RAY MONOCHROMATOR	
805331	Anode Replacement Kit	1
629900	Foil-Aluminum , X-Ray Window-Spare	1
729614	LaB6 Filament For X-Ray E-Gun	1
718083	Filter Cartridge for SMC Chiller	1
620914	DI Cartridge for SMC Chiller	1
	NEUTRALIZER	
706491R	Neutralizer Filament Assembly-BaO2 (Rebuilt)	1
805398	Neutralizer Filament Assembly-Tantalum (Rebuilt)	1

PHI 5000 VersaProbe III

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
171304	FUSE-3AG, 2.0A, 250V, Slow Blo	5
601265	Fuse-3AG, 5.0A, 250 V, Slo-Blo	5
750392	FUSE-.032A,250V,S/B,5MM,ROHS	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
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
MISC		
700526	Aluminum Foil-18" Wide x 250 Foot Roll	1
710744	Lamp-Halogen, JCR 12V-100W (Schott Light Source)	1

PHI 5000 VersaProbe III

SAMPLE PLATES		
713036	Model 191HC-Recessed Specimen Holder- USE ONLY TITANIUM MOUNTING SCREWS(P/N 626376)	1
716012	Model 193G-Faraday Cup-Auger-Used on ambient stage	1
707475	Model 193H-Faraday Cup-Assy Faraday Cup for Hot/Cold Stage	1
720901	Model 279HCA-Sample Holder For Angle Dependent studies	1
713034	Model 190HC-Sample Holder Flat	1
713038	Model 260HC-Sample Holder-Flat- 6.0 cm	1
757381	Assy Faraday Cup, 250um, H/C-Stage	Optional
727684	4 contact holder- USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-M2X3)	Optional
725653	Model 190HE1 800 Degree- USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-m2X3)	Optional
725652	Model 190HC1 600 degree/-140 degrees- USE ONLY TITANIUM MOUNTING SCREWS (P/N 717431-M2X3 AND 717432-M2X4)	Optional
630152	Mask-1mm Aperture	1
630153	Mask-Flared, 1mm Aperture	1
630154	Mask-2mm Aperture	1
630155	Mask-Finger, 3mm Aperture	1
C72040	Spring-Flat Formed Tip, 0.53L, BeCu	1
574803	Washer-Flat, M2, 2.2 ID, 5.0 OD, SST	1
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
COMPUTER/PRINTER		
ALL PC AND PRINTER MEDIA ARE CONSUMABLE		

PHI 5000 VersaProbe III

OPTIONS		
	DUAL ANODE X-RAY SOURCE	
604029	Al/Al for 04-548	1
604030	Al/Mg for 04-548	1
608308	Zr/Mg for 04-548	1
622275	X-Ray Source Filament	1
602508	Frame Gridded Window	1
607910	Frame Al/Be Gridded Window	1
602229	Football ceramic	1
718083	Filter Cartridge for SMC Chiller	1
620914	DI Cartridge for SMC Chiller	1
	AUGER	
709120	LaB6 Filament-Auger Option	1
602914	Channeltron SED Multiplier-Auger Option	1
	C60 ION GUN	
707671	C60 Powder Cartridge 250 mg	1
707667	C60 Filament Assy. (E1487A) 20KV	1
707673	C60 Temperature Sensor 20KV	1
707679	C60 Heater 20KV	1
	MAIN CHAMBER TURBO PUMP	
715521	HiPace 700 Turbo Pump Oil Wick (MC Turbo Option)	1
	UPS SOURCE	
713065	Prevac UV Source Light Capillary	1
723867	Prevac UV Source Anode	1
707146	He Gas Bottle	1

PHI 5000 VersaProbe III

	GAS CLUSTER ION BEAM (GCIB)	
715519	HiPace 300 Turbo Pump Oil Wick	1
715518	HiPace 80 Turbo Pump Oil Wick	1
628239	Rough Pump Oil (Pfeiffer Pump)	1
715475	Skimmer, GCIB	1
725677	Filament Assembly installation Kit-2 Turbo GCIB	1
723928	Filament Assembly installation Kit-3 Turbo GCIB	1
709813	Lens-Ceramic Insulator	1
709807	Source-Ceramic Insulator	1
644951	1.33" Feedthru Flange	1
724730	Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR	10