

# PHI 5000 VersaProbe II

## Consumable Parts List

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Part Number	Description	Quantity
<b>VACUUM SYSTEM</b>		
<b>PUMPS</b>		
2141400	Sublimator Filaments	1
805571	38 cell DI pump elements for 240 L/s Gamma Vacuum ion pump	6
730746	58 cell DI pump elements for 480 L/s Gamma Vacuum ion pump	8
	If a MPC was updated with a negative polarity board to run triode elements, a positive polarity board must be reinstalled or MPC must be replaced.	1
618460	KIT-INSTL,ION PUMP,400/500 L/S (HV strapping and hardware)	1
628239	Rough Pump Oil-Type P3-5 Liter (Pfeiffer Pump)	1 bottle
710201	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 Sieve Charge (Pfeiffer Pump Stations)	1
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1
715521	HiPace 400 to 700 Turbo Oil Wick	1
<b>GAUGES</b>		
627521	Convectron Gauge Tube, Granville Phillips-GP275185	1
6057676	Dual Thoria Coated Iridium Nude Ion Gauge Filament Replacement	1
708437	Cold Cathode Gauge Tube, MKS903	1

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	GASES	
627206	Argon Lecture Bottle-1400 PSIG	1
608892	O2 Gas Bottle-50cc, 275 psi	1
707146	GAS BOTTLE-HELIUM, 3.4L,11.8MP	1
	SEALS (Gaskets/O-Rings)	
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1
725670	Seal Kit-VAT Gate Valve (for 4.62" port, valve PN 718091)	1
651561	Seal Kit-V1 Gate Valve (for 4.6" port, valve PN 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	3
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-VCR-2-GR	10

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COMPONENT PARTS		
	ANALYZER	
627150	Multi-Channel Detector-Channel Plates-(VP II S/N 18 & Up)	1Set
754052	Multi-Channel Detector Anode-16 Chan-(VP II S/N 18 & Up)	1
619091	Multi-Channel Detector-Channel Plates-(VP II S/N 17 to VP I)	1Set
619102	Multi-Channel Detector Anode-16 Chan-(VP II S/N 17 to all VP I)	1
	ION GUNS	
702056	FIG-05 Ionizer	1
627206	Argon Lecture Bottle-1400 PSIG	1
724730	Stainless Steel Gasket (Swagelok), SS-VCR-2-GR	10
	X-RAY MONOCHROMATOR	
805331	Anode Replacement Kit	1
629900	Foil-Aluminum , X-Ray Window-Spare	1
620913	Heat Exchanger Filter Cartridge-For 16-050A & B & Lytron without Flow Bypass	1
620914	Heat Exchanger DI Cartridge-For 16-050B	1
729614	LaB6 Filament For X-Ray E-Gun	1
724649	Filter Cartridge 1.0µm for 16-050 A & B and Lytron with Rotary Pump update as well as Lytron with Flow Bypass	2
718083	Filter Cartridge for SMC Chiller	1
620914	DI Cartridge for SMC Chiller	1
625783	ASSY-XTAL/SUBSTRATE, ELLIPSOID	1
726866	Nikuni chiller pump Consumable parts kit containing Seal (726676) and O-Ring (726682) (Lytron or 16-500B w/ turbine pump)	1
	NEUTRALIZER	
706491R	Neutralizer Filament Assembly-BaO2 (Rebuilt)	1
805398	Neutralizer Filament Assembly-Tantalum (Rebuilt)	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
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
LAMPS/FOIL/BULBS		
700526	Aluminum Foil-18" Wide x 250 Foot Roll	1
710744	Lamp-Halogen, JCR 12V-100W (Schott Light Source)	1
SAMPLE PLATENS		
713036	Model 191HC-Recessed Specimen Holder- <b>USE ONLY TITANIUM MOUNTING SCREW-(P/N 626376)</b>	1
716012	Model 193G-Faraday Cup-Auger-Used on ambient stage	1

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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
721311	Model 260HC-Sample Holder-Flat- 6.0 cm	1
713035	Model 190HCX-Hot/Cold Platen-500 (500 degrees maximum)	Optional
757381	Assy Faraday Cup, 250, H/C-Stage	Optional
	<b>COMPUTER/PRINTER</b>	
	ALL PC AND PRINTER MEDIA ARE CONSUMABLE	

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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	Fr Al/Be Gridded Window	1
620914	Heat Exchanger DI Cartridge-SMC-For 16-050B	1
718083	Filter Cartridge for SMC Chiller	1
	AUGER OPTION	
709120	LaB6 Filament-Auger Option	1
602914	Channeltron SED Multiplier-Auger Option	1
710818	Secondary Electron Detector-Scintillator Tube	1
710819	Scintillator Tip	1
1005161	Gasket for Auger E-Gun-4.50" Flange-Special 2.86 ID	1
	C60 ION GUN	
706215	C60 Powder Cartridge 250 mg	1
706214	C60 Powder Cartridge 500 mg (2-250mg cartridges)	1
	GAS CLUSTER ION BEAM (GCIB)	
715519	HiPace 300 Turbo Pump Oil Wick	1
715518	HiPace 80 Turbo Pump Oil Wick	1 or 2
628239	Rough Pump Oil (Pfeiffer Pump)	1
715475	Skimmer, GCIB	1
725677	Filament Assembly installation Kit-2 Turbo GCIB	1

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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-VCR-2-GR	10
	<b>MAIN CHAMBER TURBO PUMP OPTION</b>	
715521	HiPace 700 Turbo Pump Oil Wick (MC Turbo Option)	1
	<b>UPS SOURCE OPTION</b>	
OMI-D181901-S	Omicron UV lamp rebuild kit	1
713065	Prevac UV Source Light Capillary	1
723867	Prevac UV Source Anode	1
707146	He Gas Bottle	1

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