

PHI 5000 VersaProbe III S/N 67 and newer

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Consumable Parts List

Part Number	Description	Quantity
BASE SYSTEM		
PUMPS		
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
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
GAUGES		
731400	Nude Ion Gauge (B-Rax control)	1
731401	Intro Gauge tube CV101 (B-Rax control)	1
703699	Pfeiffer Compact FullRange BA Gauge, PBR-DN40CF	1
ANALYZER		
717032	Multi-Channel Detector-Channel Plates-50mm	1Set
757132	Multi-Channel Detector Anode-32 Channel	1
FIG-5B ION GUN		
627206	Argon Lecture Bottle-1400 PSIG	1
702056	FIG 05 Ionizer	1
MONOCHROMATED X-RAY SOURCE		
625783	ASSY-XTAL/SUBSTRATE,ELLIPSOID	1
629888R	Al. Window Assy	1
729614	LaB6 Filament for X-Ray E-Gun	1
805331	Anode Replacement Kit	1

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NEUTRALIZER		
733876	Neutralizer Filament Assembly-Tantalum (Non-LEIPS Option)	1
807204	Neutralizer Filament Assembly-BaO (LEIPS Option)	1
807205	Neutralizer Filament Assembly Tantalum (offset E-Neut)	1
SAMPLE PLATENS and PARTS		
630152	Mask-1mm Aperture	1
630153	Mask-Flared, 1mm Aperture	1
630154	Mask-2mm Aperture	1
630155	Mask-Finger, 3mm Aperture	1
706457	Model 190 HCP sample mount for Versa Prep	Optional
707475	Model 193H-Faraday Cup-800 um raised FC for Hot/Cold Stage	1
713034	Model 190HC-Sample Holder Flat	1
713038	Model 260HC-Sample Holder-Flat- 6.0 cm	1
713036	Model 191HC-Recessed Specimen Holder- USE ONLY TITANIUM MOUNTING SCREWS (P/N 626376)	1
716012	Model 193G-Faraday Cup-Augur-250 um recessed FC	1
720901	Model 279HCA-Sample Holder for Angle Dependent studies	1
725652	Model 190HC1 600 degree/-140 degrees- USE ONLY TITANIUM MOUNTING SCREWS (P/N 717431-M2X3 AND 717432-M2X4)	Optional
725653	Model 190HE1 800 Degree- USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-m2X3)	Optional
727684	4 contact holder- USE ONLY ALUMINA MOUNTING SCREWS (P/N 725735-M2X3)	Optional
757381	Assy Faraday Cup, 250um, raised H/C-Stage	Optional
C72040	Spring-Flat Formed Tip, 0.53L, BE Cu	1
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

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	MISCELLANEOUS	
	MISC PARTS	
608892	O2 Gas Bottle-50cc 0.9MP	1
700526	Aluminum Foil-18" Wide x 250 Foot Roll	1
715544	1.5-volt Battery	1
718083	5um Filter Cartridge for Orion Chiller	1
731132	Flashlight	1
732781	MECHANICAL SEAL FOR RKS402J-MV,ORION	1
732782	CASCADE PUMP FOR RKS402J-MV,ORION	1
732783	FAN MOTOR FOR RKS402J-MV,ORION	1
732784	INVERTER FOR RKS402J-MV,ORION	1
	SEALS (Gaskets/O-Rings)	
608141	Seal Helicoflex	1
618134	Gasket, CU-4-VCR	10
619165	Gasket-Cu 4.62 OD Flange-Pkg 10	1
624725	O-Ring, Viton, Gas Inlet, 0.346 ID	1
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
735128	Seal Kit-MDC Gate Valve (for 4.62" port, valve PN 731680)	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
2684000	Gasket-Cu 6.00 OD Flange-Pkg 10	1
2686000	Gasket-Cu 8.00 OD Flange-Pkg 10	1
	FUSES	
171300	Fuse-3AG, 0.50A, 250 V, Slow-Blow	5
171302	Fuse-3AG, 1.0A, 250 V, Slow-Blow	5
171303	Fuse-3AG, 1.50A, 250 V, Slow-Blow	5
171304	FUSE-3AG, 2.0A, 250V, Slow Blow	5

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601265	Fuse-3AG, 5.0A, 250 V, Slow-Blow	5
609040	Fuse, Pico, 1A, 125V, Radial	5
639623	FUSE-4A,250V, S/B,5X20, IEC, SHT5, ROHS	5
702967	Kit-Pico Fuse, Spares	1
750224	FUSE-PICO,1A,125V, N/B, RDL, ROHS	5
750225	FUSE-PICO,.25A,125V, N/B, RDL, ROHS	5
750392	FUSE-.032A,250V, /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
OPTIONS		
AUGER		
623095	Gasket for Auger E-Gun-4.50" Flange-Special 2.86 ID	1
709120	LaB6 Filament-Augur Option	1
710818	Scintillator-Crystal Phototube-Augur Option	1
710819	Tip Scintillator	1

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	C60 ION GUN	
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 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
	DUAL ANODE X-RAY SOURCE	
602508	Frame Gridded Window	1
607910	Frame Al/Be Gridded Window	1
620914	DI Cartridge for Orion Chiller	1
729378	X-Ray Source Filament for 04-550	1
732227	Al/Mg for 04-550	1
732228	Zr/Mg for 04-550	1
732229	Mg/Mg for 04-550	1
	DUAL TURBO	
715519	Hi Pace 80 Turbo 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

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807200	KIT-REPLACE,FUSE, MVP 040	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
715475	Skimmer, GCIB	1
715519	HI Pace 300 Turbo Pump Oil Wick	1
715518	HI Pace 80 Turbo Pump Oil Wick	1
724730	Stainless Steel Gasket (Swagelok)-SS-4-VCR-2-GR	10
725677	Filament Assembly installation Kit	1
726202	SAMPLE,PMMA,400NM,1/2	1
733082	GASKET VCR1/4 MESH	1
	LEIPS	
633419	GASKET-CU,2.75FLG,.125,CLN	1
721462	SCR-PAN,M2X3,LOW HEAD	1
731112	OPT FILTER,MERCURY-LINE,254NM,T65,D25	1
731113	OPT FILTER-BLOCK,300-650NM,D25	1
731114	OPT FILTER-SINGLE,260NM,16NM,T55,D25	1
723430	GAUGE MODULE-CONVECTRON,MKS275400	1
732441	MASK-SAMPLE,SPRING,2-HOLE,LIPES	1
732442	MASK-SAMPLE,SPRING,1-HOLE,LIPES	1
732443	Set, Optic Filters	1
732444	STORAGE BOX,OPT FILTER,D25,12SLOTS	1
733347	HOLDER-SAMPLE,24 DEG	1
733348	MOD 201A FARADAY CUP-24DEG	1
733620	SCREEN-PHOSPHOR,P15 OD6,ITO/FL 8X18X.7	1
734888	SAMPLE-TEST,GLASS/ITO/AU/CUPC 1/2CUT	1
	REELS	
C75010	03-146 E-Gun Tungsten Filament	1

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	HOT/COLD STAGE	
726077	H/C stage burst disk	1
	UPS SOURCE	
568-00019	Viewport Glass, 1-1/3, VP-075	1
707146	He Gas Bottle	1
728075	Gauge-Tube Pirani, CF034	1
731065	Ulvac-PHI UV Source Anode	1
731066	Ulvac-PHI UV Source Light Capillary (only replace if heavily contaminated)	1
731067	Ulvac-PHI UV Ceramic Tube Anode	1
731068	Ceramic Guide Anode Wire	1
731069	Ceramic Guide SHV	1
731219	O-Ring P8 Viton	2
733082	GASKET VCR1/4 MESH	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
	VERSAPREP/VERSALOCK	
703699	Gauge, PBR-DN40CF	1
715519	Hi Pace 300 Turbo Pump Oil Wick	1

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