

PHI 5000 VersaProbe II

Consumable Parts List

Contents

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

OCT 2017

PHI 5000 VersaProbe II

Part Number	Description	Quantity
VACUUM SYSTEM		
PUMPS		
2141400	Sublimator Filaments	1
727970(PHI) 320531(Gamma)	Triode Ion Pump Elements 240 l/s pump Note: MPC Negative polarity board (P/N 727917) required for changing from Di elements to Triode and requiring 4ea retaining brackets (P/N 805422)	6
727968(PHI) 320427(Gamma)	Triode Ion Pump Elements-480 l/s pump Note: MPC Negative polarity board (P/N 727917) required for changing from Di elements to Triode and requiring 8ea retaining brackets (P/N 805501)	8
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 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

OCT 2017

PHI 5000 VersaProbe II

	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
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)	
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

OCT 2017

PHI 5000 VersaProbe II

COMPONENT PARTS		
	ANALYZER	
627150	Multi-Channel Detector-Channel Plates-(VP II S/N 18 & Up)	1Set
629749	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	1
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 Cartidge 1.0µm for 16-050 A & B and Lytron with Rotary Pump update as well as Lytron with Flow Bypass	2
718083	Filter Cartidge 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

OCT 2017

PHI 5000 VersaProbe II

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
639632	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	
700256	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- USE ONLY TITANIUM MOUNTING SCREW-(P/N 626376)	1
716012	Model 193G-Faraday Cup-Augur-Used on ambient stage	1

OCT 2017

PHI 5000 VersaProbe II

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
	COMPUTER/PRINTER	
	ALL PC AND PRINTER MEDIA ARE CONSUMABLE	

OCT 2017

PHI 5000 VersaProbe II

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 Cartidge 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
	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	Skimer, GCIB	1
725677	Filament Assembly installation Kit	1
709813	Lens-Ceramic Insulator	1

OCT 2017

PHI 5000 VersaProbe II

709807	Source-Ceramic Insulator	1
644951	1.33" Feedthru Flange	1
724730	Stainless Steel Gasket (Swagelok), SS-VCR-2-GR	10
	MAIN CHAMBER TURBO PUMP OPTION	
715521	HiPace 700 Turbo Pump Oil Wick (MC Turbo Option)	1
	UPS SOURCE OPTION	
OMI-D181901-S	Omicron UV lamp rebuild kit	1
713065	Prevac UV Source Light Cappillary	1
713867	Prevac UV Source Anode	1
707146	He Gas Bottle	1

OCT 2017