

# PHI nanoTOF w/Orsay LMIG

## Consumable Parts List

Part Number	Description	Quantity
<b>VACUUM SYSTEM</b>		
<b>PUMPS</b>		
897-00001	BALZERS, 60 L/S TURBO WICKS	1
709080	ION PUMP, 45 L/S, CONV, 4.5" CFF	1
3282015	ION PUMP, 15 L/S, DI, 2.75 FLANGE	1
<b>GAUGES</b>		
131-00010	FIL-GAUGE, ION ELECT DEGASS, GRANVILLE-PHILLIPS-274025	1
804974	MICRO-ION PLUS GAUGE REPLACEMENT FILAMENT	1
725351	VARIAN THORIA COATED IRIIDIUM FILAMENT KIT	1
<b>GASES</b>		
627206	ARGON-LECTURE BOTTLE, 1400 PSI	1
627207	OXYGEN-LECTURE BOTTLE, 1400 PSI	1
608892	ASSY-GAS CYLINDER, OXYGEN	1
<b>NEUTRALIZER FILAMENTS</b>		
711855	E-GUN FIL-CATHODE (Y <sub>2</sub> O <sub>3</sub> ) DISC FOR E-GUN NEUTRALIZER	1

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ION DETECTOR		
570-00005	MCP, MATCHED SET, 25mm, HOT	1 SET
636047	PHOSPHOR SCREEN	1
SAMPLE CHAMBER		
715523	SEAL-FRAME O-RING, MM100	1
123-00002	MULTIPLIER-ELECTRON, SEM DETECTOR	1
729423	O-RING, VITON (Intro Lid Seal)	1
SAMPLE STAGE		
701593	Ball-Zirconia (Stage HV Isolation)	3
COMPONENT PARTS		
ORSAY LMIG COLUMN		
702050	MVA APERTURE STRIP ASSEMBLY	1
702049	O-RING-ISOLATION VALVE	1
702071	APT 5 $\mu$ m	1
702072	APT 10 $\mu$ m	1
702073	APT 20 $\mu$ m	1
702074	APT 30 $\mu$ m	1
702075	APT 50 $\mu$ m	1
702076	APT 100 $\mu$ m	1
702077	APT 200 $\mu$ m	1
702078	APT 400 $\mu$ m	1

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	<b>ORSAY LMIG FILAMENTS</b>	
702089	ORSAY Au-Ge LMIS FULL CARTRIDGE (NEW)	1
702089R	ORSAY Au-Ge LMIS FULL CARTRIDGE (REBUILD CUSTOMER CARTRIDGE)	1
702083	ORSAY Ga LMIS FULL CARTRIDGE (NEW)	1
702083R	ORSAY Ga LMIS FULL CARTRIDGE (REBUILD CUSTOMER CARTRIDGE)	1
725175	Bi SOURCE ORSAY CARTRIDGE	1
725281	Bi SOURCE ORSAY CARTRIDGE (REBUILD CUSTOMER CARTRIDGE)	1
648340	E-GUN FILAMENTS (Ta)	1
<b>Optional Hardware</b>		
	<b>20 Kv C60 COLUMN</b>	
707667	C60 FILAMENT ASSEMBLY (E1487A)	1
707673	C60 TEMPERATURE SENSOR	1
707679	C60 HEATER	1
706215	C60 POWDER CARTRIDGE 250mg	1
707680	C60 300 $\mu$ m APERTURE	1
707681	C60 100 $\mu$ m APERTURE	1
707682	C60 30 $\mu$ m APERTURE	1
	<b>CESIUM SOURCE</b>	
644195	ASSY-VALVE, CESIUM 5 GRAM	1
715008	FRIT ASSEMBLY	1
623095	GASKET-4.5" FLANGE	1
	<b>06-655 MICROBEAM COLUMNS</b>	

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630064	KIT-REBUILD, 06-650P COND LENS	1
	<b>06-360 ION GUN/ION NEUTRALIZER</b>	
702056	IONIZER ASSEMBLY FOR ION NEUTRALIZER	1
700611	ASSY-IONIZER, O2	1
	<b>GAS CLUSTER ION BEAM (GCIB)</b>	
715519	HiPace 300 TURBO PUMP OIL WICK	1
715518	HiPace 80 TURBO PUMP OIL WICK	2
628239	ROUGH PUMP OIL (Pfeiffer Pump)	1
723928	ASSEMBLY IONIZER CORE-GCIB	1
715212	IONIZER FILAMENT COIL	1
715475	SKIM,GCIB	1
<b>MISCELLANEOUS</b>		
	<b>FUSES</b>	
641853	FUSE-0.4A, 250V, S/B, 5 X 20mm, IEC	1
602634	FUSE-0.2A, 250V, S/B, 5 X 20mm, IEC	1
636478	FUSE-10A, 250V, S/B 5 X 20, SHT5	1
750225	FUSE-PICO, 0.25A, 125V, N/B, RDL, ROHS	1
750419	FUSE-PICO, 2.5A, 125V, N/B, RDL, ROHS	1
750224	FUSE-PICO, 1A, 125V, N/B, RDL, ROHS	1
110-000017	FUSE-5A, 250 V, S/B 5 X 20mm, IEC	1
	<b>SEALS (Gaskets/O-Rings)</b>	

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618134	GASKET RET ASY CU4VCR2GR	1
1005161	GSKT-ALT, 0665 X 4.50 FLANGE, 2.86 ID	1
2680750	KIT-GASKET, 1.33 OD FLANGE, (10)	1
2681500	KIT-GASKET, 2.75 OD FLANGE, (10)	1
2682000	KIT-GASKET, 3.37 OD FLANGE, (10)	1
2682500	KIT-GASKET, 4.50 OD FLANGE, (10)	1
2684000	KIT-GASKET, 6.00 OD FLANGE, (10)	1
2688000	KIT-GASKET, 8.00 OD FLANGE, (10)	1
643672	GASKET-Cu, 4.5 FLANGE, .10 THICK, CLEAN (5)	1
	<b>LAMPS/FOIL/BULBS</b>	
622301	LAMP-FOSTEC-150 WATT	1
651110	LAMP, HALOGEN, 150W, 120V	1
C79013	ALUMINUM FOIL-18" WIDE X 250 FOOT ROLL	1
	<b>COMPUTER/PRINTER</b>	
	ALL PC AND PRINTER MEDIA ARE CONSUMABLE	

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