

# PHI 4700 Thin Film Analyzer

## Consumable Parts List

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Part Number	Description	Quantity
<b>VACUUM SYSTEM</b>		
<b>PUMPS</b>		
2141400	Sublimator Filaments	1
630660	Di Ion Pump Elements	12
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 requiring 4ea retaining brackets (P/N 805422)	12
727971	Negative Polarity Board for MPC for triode pump elements	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
897-00001	Turbo Pump Wick	1
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1
<b>GAUGES</b>		
705313	Convectron Gauge Tube, Varian	1
627521	Convectron Gauge Tube, Granville Phillips-GP275185	1
705319	Varian Ion Gauge, Nude	1
725351	Filament Replacement-Thoriated-Iridium (Varian)	1
6057671	Dual Tungsten Nude Ion Gauge Filament Replacement	1
<b>GASES</b>		
627206	Argon Lecture Bottle-1400 PSIG	1
608892	O2 Gas Bottle-50cc, 275 psi	1
<b>SEALS (Gaskets/O-Rings)</b>		
725038	Tip Seal Kit for Edwards Scroll Pump Model nXDS 15i	1

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715074	Seal Kit-VAT Gate Valve (V1 Seal Kit)	1
2680750	Gasket-Cu 1.33 OD Flange-Pkg 10	1
2681500	Gasket-Cu 2.75 OD Flange-Pkg 10	1
2682000	Gasket-Cu 3.38 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
618925	Gasket-Cu, 6.75 Flange, 5.0 ID Clean	10
2686000	Gasket-Cu 8.00 OD Flange-Pkg 10	1
608141	Seal Helicoflex	3
724730	Gasket-Stainless Steel (Swagelok)-SS-VCR-2-GR	10

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## COMPONENT PARTS

COMPONENT PARTS		
	<b>ANALYZER</b>	
717032	Multi-Channel Detector-Channel Plates	1Set
754052	Multi-Channel Detector Anode-16 Channel	1
	<b>ELECTRON GUN</b>	
709120	LaB6 Filament for Auger Electron Gun	1
	<b>SCINTILLATOR</b>	
710818	Secondary Electron Detector-Scintillator Tube	1
	<b>ION GUNS</b>	
702056	FIG 05B Ionizer	1
724730	Gasket-Stainless Steel (Swagelok)-SS-VCR-2-GR	10

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MISCELLANEOUS		
	<b>FUSES</b>	
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
601265	Fuse-3AG, 5.0A, 250 V, Slo-Blo	5
628240	Fuse-3AG, 20A, 250 V, Very Fast-Blo	5
628527	Fuse, AB, 10A, 250 V	5
628528	Fuse, AB, 15A, 250 V	5
1003791	Fuse, AB, 0.25A, 250 V	5
	<b>LAMPS/FOIL/BULBS</b>	
700256	Aluminum Foil-18" Wide x 250 Foot Roll	1
710744	Lamp-Halogen, JCR 12V-100W (Schott Light Source)	1
	<b>SAMPLE PLATES</b>	
713036	Model 191HC-Recessed Specimen Holder	1
716012	Model 193G-Faraday Cup-Auger	1
713034	Model 190HC-Flat Specimen Holder	1
716014	Model 194D-Beam Diameter-Auger	1
716010	Model 202A-30° Sample Holder	1
713038	Model 260HC-Sample Holder-Flat-0.6cm	1
713035	Model 190HCX-Hot/Cold Platen	1
	<b>COMPUTER/PRINTER</b>	
	ALL PC AND PRINTER MEDIA ARE CONSUMABLE	

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