

# Obsolete/Upgrade Components List 2022

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## Generators

### RF Generators

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Advanced Energy	HFV8000	Advanced Energy	Paramount Generator 5kW
Advanced Energy	1251	Advanced Energy	Paramount 1.5kW
Advanced Energy	3001	Advanced Energy	Paramount 3kW
Advanced Energy	AE RFX 600A	Comdel	CB600W
Advanced Energy	AE RFX 600A	HiLight	136
ENI	300W	Comdel	CB300W
ENI	300W	HiLight	136

### LF Generators

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Advanced Energy	LF5	Comdel	CLX600

### System PCs

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Microsoft	Windows XP	Microsoft	Windows 10
Microsoft	Windows 7	Microsoft	Windows 10

## Endpoints

### Laser Endpoints

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Joby Yovin	Laser (various wavelengths)	Horiba	670nm
Joby Yovin	Laser (various wavelengths)	Intellemetrics	LEP 500 670nm
Joby Yovin	Laser (various wavelengths)	Horiba	905nm
Joby Yovin	Laser (various wavelengths)	Intellemetrics	LEP 500 980nm

### Optical Endpoints

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Verity	PM140	Avaspec	
Verity	Monochromator	Ocean Optics	
Verity	Single WL	Ocean Optics	

### Handlers

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
EMS	Elevator	Hine	Elevator
EMS	4.5v	Hine	Robot Arm

## Auto Matching Units

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Oxford Instruments Plasma Technology	Air Vane AMU	Oxford Instruments Plasma Technology	VACCAP AMU

## Pumps

### Turbo Molecular Pumps

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Adixen	ATP400	Pfeiffer	ATH500MT
Adixen	ATP400	Edwards	STP451C
Adixen	ATH1300MT	Pfeiffer	ATH1600MT
Adixen	ATP150	Pfeiffer	HiPace 300
Adixen	ATP80	Pfeiffer	HiPace 80

### Dry Pumps Chamber/Backing Pumps

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Adixen	A602P	Pfeiffer	A604H-ELT
Adixen	A122P	Pfeiffer	A124H-ELT
Edwards	iH600	Edwards	iXM600
Edwards	iH600	Edwards	iXH610

## Wet Pumps

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Adixen	2033	Pfeiffer	Duo 35
Adixen	2033	Pfeiffer	A124H
Adixen	2063	Pfeiffer	Duo 65
Adixen	2063	Pfeiffer	A124H

## Turbo Controllers

**Most turbo controllers are obsolete, the list below indicates the model number which communicates to the turbo**

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Pfeiffer (Adixen)	ATH400M	Pfeiffer (Adixen)	ATH500M Onboard Controller
Pfeiffer (Adixen)	ACT600M	Pfeiffer	ATH500M Onboard Controller
Adixen Alcatel	ATP80	Pfeiffer	HiPace 80 Onboard Controller
Adixen Alcatel	ACT200T	Pfeiffer	HiPace 80 Onboard Controller
Adixen Alcatel	ATP150	Pfeiffer	HiPace 300 Onboard Controller
Adixen Alcatel	ACT600	Pfeiffer	HiPace 300 Onboard Controller

## Electrodes

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Oxford Instruments Plasma Technology	RIE Electrode	Oxford Instruments Plasma Technology	Star Chilled
Oxford Instruments Plasma Technology	Cryo Electrode 150C/400C	Oxford Instruments Plasma Technology	Star Hot
Oxford Instruments Plasma Technology	Cryo Electrode	Oxford Instruments Plasma Technology	Star LN2 Hot

## IonFab

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
Glassman	DC LP Series Power Supplies	Glassman	DP LPC Series Power Supplies
Oxford Instruments Plasma Technology	Ion Beam Platen Assembly	Oxford Instruments Plasma Technology	Ion Beam Platen including Water Seal Housing

## Chillers

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
BettaTech	-	Julabo/SMC	Various options
Julabo	FC1600T	Julabo/SMC	Various options
Neslab	RTE7	Julabo	FL1703 / SMC

## Automatic Pressure Controllers

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
MKS	-	VAT	61.3
Oxford Instruments Plasma Technology APC	-	VAT	61.3
Norcal	-	VAT	61.3
VAT	64.1/PM5	VAT	61.3

## PLCs

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
B&R Automation	Mini8 controller (Black 8 PLC)	B&R Automation	X20PLC
B&R Automation	CP476 (Blue PLC)	B&R Automation	X20PLC
B&R Automation	X20 CPU 1484	B&R Automation	X20 CPU 1584

## Mass Flow Controllers

Obsolete Component		Upgrade Component	
Manufacturer	Model	Manufacturer	Model
MKS	1479	MKS	G Series MFC
MKS	1579	MKS	G Series MFC