



**LASER S.O.S. GROUP**

TECHNOLOGY AND MARKET DRIVEN COMPANY!

# DEIONIZATION CARTRIDGES & PARTICLE FILTERS

Issue 4.



Intelligent Solutions, Manufacturing & Development



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## LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

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# *RoHS and WEEE Conformity Statements*

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As a company, Laser SOS actively embraces its legal and environmental obligations outlined by the WEE and ROHS directives. We see these regulations as a positive and responsible change to protect the environment.

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## RoHS

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All products that are subjected to the European Community directive 2002/95/EC supplied by Laser SOS from 1st July 2006 are compliant with the requirements. Such products are marked with the RoHS symbol (adjacent)

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## WEEE

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All products that are subjected to the WEEE directive 2002/96/EC supplied by Laser SOS from 13th August 2005 are compliant with the WEEE marking requirements. Such products are marked with the “crossed out wheelie bin” WEEE symbol in accordance with European Standard EN 50419. Our WEEE Producer registration number is WEE/EF0248QZ

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# DEIONIZATION CARTRIDGES & PARTICLE FILTERS

For Lamp Pumped and Diode Pumped Laser Systems



Laser S.O.S. provides the solid state laser industry with a comprehensive range of Deionizing Cartridges and Particle Filters for most leading solid state lasers.

Most solid state lasers require Deionization Cartridge or DI resin to maintain the correct level of water purity and for preventing electrical arcing. Most lamp pumped lasers require cooling water resistivity to be in the range of 1 to 2 MegaOhm/cm for efficient operation. Problems such as laser lamp ignition will result if water purity drops below the required resistivity level.

Water quality should be tested on a regular basis. The Deionization Cartridge or DI Resin should be changed when the quality of water drops below the current resistivity level. Many laser systems now are fitted with in-line water sensors to monitor water quality.

Particle filters are also required to prevent the build-up of particulates and debris on to pump cavity, laser lamp, flow tubes and the water cooling loop and system.

Item P/N	Description	Laser Rail	OEM P/N
<b>AB LASER INC.</b>			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series 230x35mm	141200137
PFMKFEU51	Pre Filter MKF EU51	Star Weld, 580x270x20mm	141200101
AFLSW4002	Air Filter	LSW4001, 180x150x120mm	141200124
AFSWT	Air Filter	StarWeld Series 67200-134	141200138
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530x130x100	141200136
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DI Combination Filter	2000, 6000, StarMark, StarWeld, StarCut 18	1001000-354, 141200030
D6000/AB	DI Combination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut 18	
DIRESIN100	DI Resin, 2.5 liters	2000, 6000, StarMark, StarWeld, StarCut 18	
PF4001	Particle Filter	LSW4001	
<b>ALLTEC</b>			
PF16	Particle Filter	LN30W, LN100W	
DIRESIN100	DI Resin, 2.5 liters	LN30W, LN100W	
<b>ALPHA LASER</b>			
AFALS133	Air Filter	ALS35, ALS35S, SL50, SL75, SL100, SL150 (Size 170 x 133 x 120 mm)	
ALALS144	Air Filter	ALS35, ALS35S, SL50, SL75, SL100, SL150 (Size 170 x 133 x 120 mm)	
D8000	DI Combination Filter (Recyclable)	S/H13, ALS35, ALS35S, SL50 Please Enquire	
D8000/AB	DI Combination Filter (excluding D.I. Resin)	S/H13, ALS35, ALS35S, SL50 Please Enquire	
D1008	DI Cartridge	ALS35, ALS35S, SL50, SL75, SL100, SL150	
AFALS75	Air Filter	ALS75, SL75, SL100, SL150	
<b>AMERICAN LASER / M.LS / SHARPLIGHT</b>			
DIF205C	DI Cartridge	I.P.L Range.	
<b>BAASEL LASERTECHNIK</b>			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series 230x35 mm	141200137

Item P/N	Description	Laser Rail	OEM P/N
PFMKFEU51	Pre Filter MKF EU51	Star Weld 580x270x20 mm	141200101
AFLSW4002	Air Filter	LSW4001, 180x150x120mm	141200124
AFSWT	Air Filter	StarWeld Series 67200-134	141200138
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530x130x100mm	141200136
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DI Combination Filter	2000, 6000, StarMark, StarWeld, StarCut	1001000-354, 141200030
D6000/AB	DI Combination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut	
DIRE SIN100	DI Resin, 2.5 liters	2000, 6000, StarMark, StarWeld, StarCut	
PF4001	Particle Filter	LSW4001	

### BAUBLYS / BAUBLYS CONTROL

PF5/456	Particle Filter	BL65 (5 inch)	
PF10/456	Particle Filter	BL100, BL150 (10 inch)	
PFICON	Particle Filter	Baublys ICON 90	
D8822	DI Cartridge	Baublys ICON 90	
D1002	DI Cartridge	BL65 (Old)	
D1006	DI Cartridge	BL100, BL150	
PF12	Particle Filter	BL65 (Old)	

### BENTZY LASER

PF75	Particle Filter	Diamond Processing Laser	
D150	DI Cartridge	Diamond Processing Laser	

### CHICAGO LASER

PF10	Particle Filter	CLS510, CLS512, CLS375, CLS520	
PFSS708	Particle Filter	CLS37W, CLS39, CLS907, CLS960, CLS977	
D8822	DI Cartridge	CLS510, CLS512, CLS375, CLS520	
D8832	DI Cartridge	CLS37W, CLS39, CLS907, CLS960, CLS977	

### COHERENT

D8902	DI Cartridge	Coherent Antares M34, OMEGA	2603-0082
D50236	DI cartridge	Coherent Infinity	
PF10	Particle Filter	Coherent Infinity	2603-0084

### CONTINUUM

D1001	DI Cartridge	Continuum FL Series (MPS-06-3/8 inlet)	
D1004	DI Cartridge	Continuum FL Series (XF6-1/8 inlet)	

### CONTROL LASER

PF10	Particle Filter	510, 512, 513, 520, 612, 620, Instamark, Script, Elite, Emblem, Signature	200477
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Item P/N	Description	Laser Rail	OEM P/N
D8822	DI Cartridge	510, 512, 513, 520, 612, 620, Instamark, Script, Elite, Emblem, Signature, Icon, Insignia	72835
<b>CONVERGENT</b>			
PF10	Particle Filter	Aurora P-10, P-50	
<b>CRAFFORD PRECISION PRODUCTS</b>			
D7000	Combination DI Filter (Recyclable)	LaserStar Series, Please Enquire	
D7000/AB	Combination DI Filter (excluding D.I. Resin)	LaserStar Series, Please Enquire	
DILASERSTAR	Combination DI Filter	LaserStar Series	
<b>CHROMATRON</b>			
PFACHROM	Particle Filter	Induwrite	
<b>DEK</b>			
PF12	Particle Filter	Spectron SL501Q, SL501TQ	
D1002	DI Cartridge	Spectron SL501Q, SL501TQ	
<b>ELECTROX</b>			
PFN10/02	Particle Filter, 0.2 micron	Diode Laser, 0.2 micron	
PFN10	Particle Filter, 30 micron	Scriba I and II	
D180	DI Cartridge	Diode laser	
D8822	DI Cartridge	Scriba I and II	
D8832	DI Cartridge	RayMarker	
<b>E.S.I.</b>			
PF10	Particle Filter	25, 44 (Control Laser)	
PF10/20	Particle Filter	3570, 3572, 3573	
PF10/5MICRON	Particle Filter	4000A, 4200	
PFESI5100	Particle Filter	5100 PC Board Driller	
DESI5100	DI Cartridge	5100 PC Board Driller	
D8822	DI Cartridge	25, 44, 3572, 37573, 4000A, 4200	



Item P/N	Description	Laser Rail	OEM P/N
<b>FLOROD</b>			
PF10	Particle Filter	40, 41, 42, 70	
D8822	DI Cartridge	40, 41, 42, 70	
<b>FOBA</b>			
PF16	Particle Filter	LN30W, LN100W	
DIRE SIN100	DI Resin, 2.5 liters	LN30W, LN100W	
<b>FOTONA</b>			
PF30	Particle Filter	YAG-22	
D8822	DI Cartridge	YAG-22	
<b>FOX LASERS</b>			
PF30	Particle Filter	7400	
D8811	DI Cartridge	7400	
<b>GENERAL SCANNING</b>			
PFSS708	Particle Filter	400, 800, 6000	
D700	DI Cartridge	400, 800, 6000	
<b>GRETAG</b>			
PF12	Particle Filter	6210, 6211	
D1002	DI Cartridge	6210, 6211	
<b>GSI LUMONICS</b>			
DIRE SIN100	DI Resin, 2.5 liters	JK 701, 702, 704, 706	
D8811	DI Cartridge	WaferMark 345, II	3010004
D8822	DI Cartridge	Lightwriter	
D8951	DI Cartridge	Lightwriter	
PF30	Particle Filter	WaferMark	3010003
PFICON	Particle Filter	LightMarker	
D1007	Particle Filter	Luxstar	
PFJK	Particle Filter	JK700, 701, 702, 704, 706	550000101
D700	DI Cartridge	HM1500	
<b>HAAS LASER</b>			
PF12	Particle Filter	Vector Mark	
D1002	DI Cartridge	Vector Mark	
D240	DI Cartridge	Pulsed & CW Lasers	

Item P/N	Description	Laser Rail	OEM P/N
<b>HAHN &amp; KOLB</b>			
PF12	Particle Filter	Enigma (Old)	
D1002	DI Cartridge	Enigma (Old)	
PF5/456	Particle Filter (5 inch)	Enigma	
PF10/456	Particle Filter (10 inch)	Enigma	
D1006	DI Cartridge	Enigma	
<b>HK TECHNOLOGIES</b>			
PF12	Particle Filter	Enigma (Old)	
D1002	DI Cartridge	Enigma (Old)	
PF5/456	Particle Filter (5 inch)	Enigma	
PF10/456	Particle Filter (10 inch)	Enigma	
D1006	DI Cartridge	Enigma	
<b>HOLOBEAM</b>			
PF9	Particle Filter	255, 256, 257, 258, 2250, 2660	
D8822	DI Cartridge	255, 256, 257, 258, 2250, 2660	
<b>INNOLAS</b>			
PF5/456	Particle Filter (5 inch)	1000, 2000, Enigma	
PF10/456	Particle Filter (10 inch)	1000, 2000, Enigma	
D1006	DI Cartridge	1000, 2000, Enigma	
<b>ISKRA</b>			
PF12	Particle Filter	YAG-22	
D1002	DI Cartridge	YAG-22	
<b>JK LASER</b>			
DIRE SIN100	DI Resin, 2.5 litres	JK700, 701, 702, 704, 706	
PFJK	Particle Filter	JK700, 701, 702, 704, 706	55000101
<b>LASAG</b>			
DIRE SIN100	DI Resin, 2.5 litres	KLS 246-040, KLS 016, 111, 126	

Item P/N	Description	Laser Rail	OEM P/N
<b>LASER APPLICATIONS</b>			
PF10	Particle Filter	9555, 9560, 95100, 95150, 94100	
D0803	DI Cartridge	95100, 95150, 94100	
D8832	DI Cartridge	9555, 9560	
<b>LASER IDENTIFICATION SYSTEMS</b>			
PF30	Particle Filter	Wafer Mark 345, II	
D8811	DI Cartridge	Wafer Mark 345, II	
<b>LASER OPTRONICS</b>			
PF10	Particle Filter	747, 757, 767	
D2002	DI Cartridge	747, 757, 767, 777	
<b>LASERSCOPE</b>			
D1001	DI Cartridge	Aura, Lyra, Infinity	
<b>LASIT</b>			
PF08315	Particle Filter	Diode Fly Marker	
PF15	Particle Filter	Easy Mark, Flexi Mark	
D50237	DI Cartridge	Diode Fly Marker	
<b>LASERVALL</b>			
D1001	DI Cartridge	Diode Pumped YAG	
DIF2404	DI Cartridge	KUB050	1900417-00
PF402	Particle Filter	KUB050	19100420-00
<b>LEE LASER</b>			
PF5S708	Particle Filter	708, 712, 718, 808, 812, 818	
D700	DI Cartridge	708, 712, 718, 808, 812, 818	12000013
D8832	DI Cartridge	715, 718, 808, 812, 818, 825	12000032
D888	DI Cartridge	Diode Laser LDP-200	
PF5/5MICRON	Particle Filter	Diode Laser LDP-200	
FH5B	Filter Housing	For 5" long filters	
<b>LPKF</b>			
D6000	Combination Filter	StarCut 18	
D6000/AB	Combination Filter (excluding D.I. Resin)	StarCut 18	
<b>LS LASER SYSTEM</b>			
DIRE SIN100	DI Resin, 2.5 Liters	LS-3.5, LS8000, MLS035, MLS7032	

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## DEIONIZATION CARTRIDGES & PARTICLE FILTERS

For Lamp Pumped and Diode Pumped Laser Systems

Item P/N	Description	Laser Rail	OEM P/N
<b>LUMENIS</b>			
DIF203	DI Cartridge	Epitouch	
D8822	DI Cartridge	EpiLight	
<b>LYNTON MEDICAL / LYNTON LASER</b>			
DIF203	DI Cartridge	Luminette, Lumina (2008 model onwards)	
<b>MLS</b>			
DIREIN100	DI Resin, 2.5 Liters	MLS035, MLS7032	
<b>N.W.L.</b>			
PF12	Particle Filter	Meltemi, Levante	
D1002	DI Cartridge	Meltemi, Levante	
<b>ORZIV</b>			
PF30	Particle Filter	2001	
D8822	DI Cartridge	2001	
PF5/456	Particle Filter	Orziv Express	MP101796MS
D1006	DI Cartridge	Orziv Express	
<b>POLARIS</b>			
D1009	DI Cartridge	Dye Laser Series	
<b>POSITIVE LIGHT</b>			
PF9	Particle Filter	Merlin	
DMP10	DI Cartridge	Merlin	
<b>QUANTA RAY</b>			
PF75HD05	Particle Filter	DCR3, GCR	
PFDCR	Particle Filter	DCR2	
D8950	DI Cartridge	DCR/GCR	
<b>QUANTRAD</b>			
PF10	Particle Filter	1733, 1969	
D8832	DI Cartridge	9555, BLAZER 2000, COMET, GALAXY	

Item P/N	Description	Laser Rail	OEM P/N
<b>QUANTRONIX</b>			
PF30	Particle Filter	114, 116, 117, 118	2802-00254
PF5	Particle Filter	114, 116, 117, 118	3002-01224
PFICON	Particle Filter	114, 116, 117, 118	
D8811	DI cartridge	114, 116, 117, 118	3002-01194
D8822	DI Cartridge	114, 116, 117, 118	3002-01062
D180	DI Cartridge	Quantronix Green Laser	
<b>RAYTHEON</b>			
PFSS500	Particle Filter	SS500, 525, 531, 550	U20A10U
DSS500	DI Cartridge	SS500, 525, 531, 550	MRX-1
<b>ROFIN BAASEL</b>			
PF9/BAASEL	Particle Filter	600, 2000, 6000	
PFSMD40	Particle Filter	SMD Diode Series 230x35mm	67200-41, 141200137
PFMKFEU51	Pre Filte MKF EU51r	StarWeld 580x270x20mm	141200101
AFLSW4002	Exhaust Filter	LSW4001, 180x150x120mm	141200124
AFSWT5002	Exhaust Filter	StarWeld 4002, 5002, 530x130x100	141200136
AFSWT	Air Filter	Rofin Baasel Star Weld Series	141200138
D228	DI Cartridge	2000, 6000	
D8822	DI Cartridge	600	
D6000	DICombination Filter	2000, 5000, 6000, StarMark, StarWeld, StarCut	1001000-354, 141200030
D6000/AB	DICombination Filter (excluding D.I. Resin)	2000, 6000, StarMark, StarWeld, StarCut	
DIRE SIN100	DI Resin, 2.5 liters	2000, 6000, StarMark, StarWeld, StarCut	
<b>ROFIN SINAR</b>			
PF10/5MICRON	Particle Filter	8070, 815, 860, RSY90Q, RSY120Q	719301
D2002	DI Cartridge	8070, 815, 860, RSY90Q, RSY120Q, Powerline, 1000	719310
PFA8	Particle Filter Assembly	402287, 402286	
<b>SIEMENS</b>			
PF10	Particle Filter	Silamatic	
D8822	DI Cartridge	Silamatic	
<b>SIRO LASERTEC</b>			
AFALS133	Air Filter	Siro ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm (170x133x120 mm)	
AFALS145	Air Filter	Siro ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm (170x145x120 mm)	

## DEIONIZATION CARTRIDGES & PARTICLE FILTERS

For Lamp Pumped and Diode Pumped Laser Systems

Item P/N	Description	Laser Rail	OEM P/N
D8000	DI Combination Filter (Recyclable)	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm – Please Enquire	
D8000/AB	DI Combination Filter (excluding DI Resin)	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm – Please Enquire	
D1008	DI Cartridge	ALS35, ALS35S, SL50, SL75, SL150, Thunder, Tornado, Hurricane, Thunderstorm	
AFALS75	Air Filter	ALS75, SL75, SL150	

### SPECTRA PHYSICS

PF10	Particle Filter	3000	
D8822	DI Cartridge	3000	
D700	DI Cartridge	3400, 3800	
PF75HD05	Particle Filter	DCR3, GCR	
PFDCR	Particle Filter	DCR	
D8950	DI Cartridge	DCR/GCR	

### SPECTRON LASER

PF12	Particle Filter	SL502, SL901, SL902	
PF5/456	Particle Filter (5 inch)	SL502, SL901, SL902, SL904	MP101796MS
PF10/456	Particle Filter (10 inch)	SL502, SL901, SL902, SL904	MP010768MS
D1002	DI Cartridge	SL502, SL901, SL902	
D1006	DI Cartridge	SL502, SL901, SL902, SL904, SL905TQ	

### TERADYNE

PF10	Particle Filter	311, H-507, 411, H-514, WD411	
PF30	Particle Filter	M118, W419, W421, W429	
D8832	DI Cartridge	W614, W670	
D8811	DI Cartridge	W419, W421, W429	
PF55708	Particle Filter	W614, W670	
D8822	DI Cartridge	311, H-507, 411, H-514, WD411	

### TOSHIBA

D2011	DI Cartridge	Toshiba	
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### TRUMPF

PF12	Particle Filter	Vector Mark	
D1002	DI Cartridge	Vector Mark	
D240	DI Cartridge	Pulsed & CW Lasers	758912

Item P/N	Description	Laser Rail	OEM P/N
<b>UNIVERSAL LASERS</b>			
PFSS708	Particle Filter	708, 712, 808, 812	
D700	DI Cartridge	708, 712, 808, 812	

If your DI Cartridge or Particle Filter are not listed, please provide us with the original parts for sourcing.



## LASER S.O.S. GROUP

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