

TECHNICAL DATA

DIRECTPROCESS 900

Direct Diode Laser Material Processing

Wavelength: 915 nm to 980 nm
Power: up to 2 kW



FEATURES

- Turn Key System
- Power up to multi kW
- Ultra-High Brightness
- Fast Modulation Capability
- Industrial Delivery Fiber
- Microprocessor Operation
- Ethernet, RS232, Analog and TTL Control
- Graphical User Interface

APPLICATIONS

- Metal Cutting/Welding
- Brazing
- Additive Welding/Cladding
- Paint Stripping
- Annealing

DIRECTPROCESS 900

Direct Diode Laser
Material Processing

TECHNICAL SPECIFICATIONS

Output Power, Fiber Coupled	W	500	1000	2000
Wavelength	nm	935	950	
Spectral Width, FWHM, typ.	nm	20	55	100
Beam Parameter Product, free-space	mm*mrad	5		
Beam Parameter Product, ex fiber	mm*mrad	7.5		
Fiber Core Diameter	µm	105		
Fiber Length	m	5		
Fiber Connector		QBH, LLK-B		
Maximum Modulation Frequency	kHz	50		
Rise / Fall Time	µs	10		
Supply voltage	V	110 - 230		
Current @ 110 V	A	18	42	74
Current @ 220 V	A	9	21	37
Dimensions (L x W x H)	mm (inch)	220 x 200 x 85 (8.7 x 8 x 3.4)	600 x 482 x 88 (24 x 19 x 3.5)	600 x 482 x 178 (24 x 19 x 7)
Operating Temperature range	°C	20 - 35		
Storage Temperature	°C	5 - 50		
Humidity @ 25°C		<75%		
Typical Dissipated Heat	W	1.000	2.500	4.400
Typical Flow Rate	l/min (gpm)	7.5 (2.0)	18 (4.8)	32 (8.5)
Minimum Flow Rate	l/min (gpm)	5.3 (1.4)	13 (3.5)	22 (6.0)
Typical Pressure Drop	bar (psi)	2.5 (35)	3.5 (45)	3.5 (55)
Flow Rate, Fiber Connector	l/min (gpm)	tbd		
Maximum Inlet Pressure	bar (psi)	4 (60)		
Water Temperature Range	°C	20 - 25		
Water Filter	µm	100		
Water Quality		clean tap water		

