

PDS-R

PULSED RUBY LASER SYSTEM FOR THOMSON SCATTERING



The well-known JKLasers/Lumonics PDS series has an enviable reputation for quality and reliability built up over 20 years of use in industry and research. The new PDS-R retains all of the key features and qualities associated with previous PDS generations, and now includes the additional benefits of a lighter compact laser head and power supply, with advanced fault diagnostics. The microprocessor control system is specifically designed to allow easy access to system parameters and function controls via an RS232 interface with PC control.

KEY FEATURES

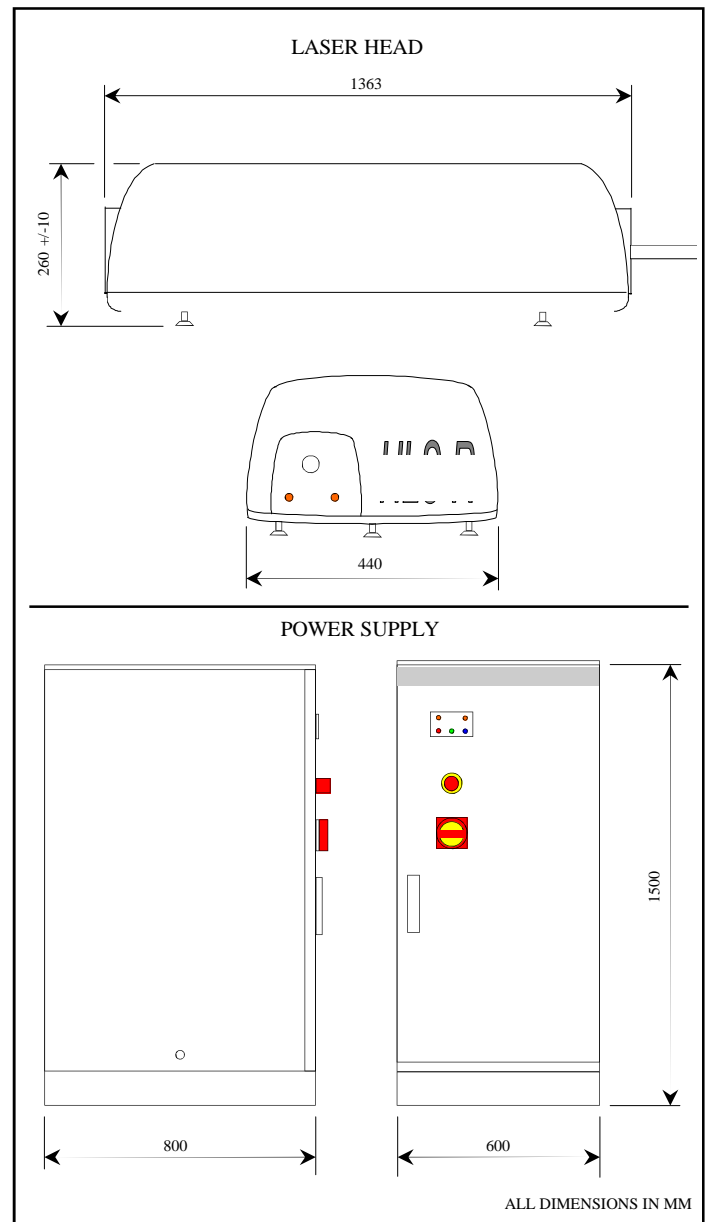
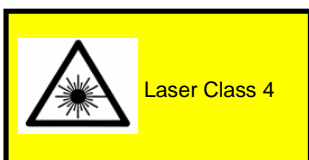
- Carbon fibre resonator structure provides stable alignment that stays aligned.
- Close coupled efficient pumping chambers for uniform laser inversion across the rod diameter.
- Spatial filter assembly ensures excellent beam profile
- Microprocessor controlled via RS232 PC control
- Self-contained chiller system (no requirement for external water supply).
- Advanced fault diagnostics.

SPECIFICATION PDS-R40

<i>Wavelength</i>	694.3nm
<i>Pulse Energy</i>	
<i>Single Pulse</i>	10.0 Joule
<i>Double Pulse</i>	4.5 to 5.5 Joules/Pulse
<i>Double Pulse Separation</i>	1 microsecond to 800 microseconds
<i>Pulse Duration (Nominal)</i>	20 Nanoseconds
<i>Repetition Rate</i>	Up to 4ppm
<i>Supply Rating</i>	5.5kVA
<i>Maximum Power Consumption</i>	5kW
<i>Voltage (PSU)</i>	90-255V 50-60Hz

Note: Self contained chiller must be selected to suit supply

Other models and specifications available



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