

Lamp Housing Selection Guide

RC-801, RC-802, RC-802 InterWeave™

RC-901, RC-902, RC-902 InterWeave™

High Energy Pulsed Light Systems

- 1 – Model LH-810 – 5.5" diameter Spiral Lamp
- 2 – Model LH-820 – 10" U-Shape Lamp
- 3 – Model LH-830 – 12" U-Shape Lamp
- 4 – Model LH-840 – 16" Linear Lamp
- 5 – Model LH-851 – 20" Linear Lamp
- 6 – Model LH-852 – 20" Linear Lamp
- 7 – Model LH-870 – 30" Linear Lamp
- 8 – Model LH-910 – 5.5" diameter Spiral Lamp

Introduction

Selecting an RC-800 or RC-900 Series modular curing system may start with a review of the flashlamp housings to determine the optical curing area, lamp spectra, and pulse energy configurations available. This guide is intended to assist in quickly reviewing lamp housing specifications. Selection tables are also included, detailing power supply specifications and other system configuration options for each flashlamp housing. Additional information on the RC-800 Series may be found in the RC-800 Series data sheet.

XENON CORPORATION

XENON



Model LH-810 Spiral Lamp Housing 107-mm Spiral Lamp

| | |
|-----------------------------------|---|
| Pulse Energy & Pulse Rate Options | 13 J/pulse @ 100 pps (100% Duty Cycle, max) |
| | 15 J/pulse @ 70 pps or 100 pps (50% Duty Cycle, max) |
| | 207 J/pulse @ 10 pps or 15 pps (100% Duty Cycle, max) |
| Control Cable Options | 3, 6, 8 or 10 meters |
| | Sealed Housing 3 or 6 meters |
| High Voltage Cable Options | 3, 6, 8 or 10 meters |
| | Sealed Housing 3 or 6 meters |
| Lamp Housing Filter | None, side, rear, inside mount |
| Spiral Lamp Spectra Options | 107 mm diameter, type B spectra : 240 nm cutoff |
| | 107 mm diameter, type C spectra : 190 nm cutoff |
| Window Opening | 6.3" (160 mm) diameter |
| Optical Curing Area | Circular: 5.50" (139.7 mm) diameter |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-812 (2kW) or PS-813; PS-833 (3kW) |

Model LH-820 U-shape Lamp Housing 10-inch U Lamp

| | |
|-----------------------------------|--|
| Pulse Energy & Pulse Rate Options | 13 J/pulse @ 100 pps (100% Duty Cycle, max) |
| | 15 J/pulse @ 70 pps or 100 pps (50% Duty Cycle, max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| U-shape Lamp Spectra Options | 254 mm length, type B spectra : 240 nm cutoff |
| | 254 mm length, type C spectra : 190 nm cutoff |
| Window Opening | 10.18" (259 mm) x 4.5" (114 mm) L x W |
| Optical Curing Area | Rectangular: 10" (240 mm) x 3.0" (76.2 mm) |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-812 (2kW) or PS-813; PS-833 (3kW) |

Model LH-830 U-shape Lamp Housing 12-inch U lamp

| | |
|-----------------------------------|--|
| Pulse Energy & Pulse Rate Options | 13 J/pulse @ 100 pps (100% Duty Cycle, max) |
| | 15 J/pulse @ 70 pps or 100 pps (50% Duty Cycle, max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| U-shape Lamp Spectra Options | 305 mm length, type B spectra : 240 nm cutoff |
| | 305 mm length, type C spectra : 190 nm cutoff |
| Window Opening | 12.18" (309 mm) x 4.5" (114 mm) L x W |
| Optical Curing Area | Rectangular: 12" (304.8 mm) x 3.0" (76.2 mm) |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-812 (2kW) or PS-813; PS-833 (3kW) |

Model LH-840 Linear Lamp Housing 16-inch Linear Lamp

| | |
|---------------------------------------|---|
| Pulse Energy & Pulse Rate Options | 507 J/pulse @ 3 pps (100% Duty Cycle, max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| Linear Lamp Spectra Options | 406 mm length, type B spectra : 240 nm cutoff |
| | 406 mm length, type C spectra : 190 nm cutoff |
| Window Opening - Elliptical Reflector | 21.0" (533 mm) x 3.5" (89 mm) L x W |
| Optical Curing Area | Rectangular: 16" (406 mm) x 1.0" (25.4 mm) |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-812 (2kW) or PS-813; PS-833 (3kW) |

Models LH-851 & LH-852 Linear Lamp Housings 20-in Linear Lamp

| | |
|-------------------------------------|--|
| Pulse Energy & Pulse Rate Options | 13 J/pulse @ 100 pps (100% Duty Cycle, max) |
| | 15 J/pulse @ 70 pps or 100 pps (50% Duty Cycle, max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| Linear Lamp Spectra Options | 508 mm length, type A spectra : 370 nm cutoff |
| | 508 mm length, type B spectra : 240 nm cutoff |
| | 508 mm length, type C spectra : 190 nm cutoff |
| Window Opening | |
| Elliptical Reflector - Model LH-851 | 21" (533 mm) x 3.5" (89 mm) L x W |
| Radial Reflector - Model LH-852 | 21" (533 mm) x 4.5" (114 mm) L x W |
| Optical Curing Area | Rectangular: 20" (508 mm) x 1.0" (25.4 mm) |
| Elliptical Reflector - Model LH-851 | Rectangular: 20" (508 mm) x 1.0" (25.4 mm) |
| Radial Reflector - Model LH-852 | Rectangular: 20" (508 mm) x 2.0" (50.8 mm) |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-812 (2kW); or PS-813; PS-833 (3kW) |

Model LH-870 Linear Lamp Housing 30-inch Linear Lamp

| | |
|---------------------------------------|---|
| Pulse Energy & Pulse Rate Options | 19.4 J/pulse @ 100 pps (100% Duty Cycle, max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| Linear Lamp Spectra Options | 762 mm length, type B spectra : 240 nm cutoff |
| | 762 mm length, type C spectra : 190 nm cutoff |
| Window Opening - Elliptical Reflector | 31.5" (800 mm) x 3.5" (89 mm) L x W |
| Optical Curing Area | Rectangular: 30" (762 mm) x 1.0" (25.4 mm) |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-801; RC-802, RC-802 InterWeave™ |
| Power Supplies | PS-813; PS-833 (3kW) |

RC-900 SERIES LAMP HOUSING OPTIONS

Model LH-870 Linear Lamp Housing 30-inch Linear Lamp

| | |
|-----------------------------------|--|
| Pulse Energy & Pulse Rate Options | 19.4 J/pulse @ 100 pps (100% Duty Cycle max) |
| Control Cable | 3 meters |
| High Voltage Cable | 3 meters |
| Linear Lamp Spectra Options | 508 mm length, type B spectra : 240 nm cutoff 508 mm length, type C spectra : 190 nm cutoff |
| Window Opening | 31.5" (800 mm) x 3.5" (89 mm) L x W |
| Optical Curing Area | Rectangular: 30" (762 mm) x 1.0" (25.4 mm) |
| Systems | RC-901; RC-902, RC-902 InterWeave™ |
| Power Supplies | PS-813; PS-833, (3kW); PS-916; PS-936 (6kW) |

Model LH-910 Spiral Lamp Housing 107-mm Spiral Lamp

| | |
|-----------------------------------|--|
| Pulse Energy & Pulse Rate Options | 207 J/pulse@ 25 pps (30% Duty Cycle max) |
| Control Cable Options | 3, or 6 meters Sealed Housing, flex cables, 3 or 6 meters |
| High Voltage Cable Options | 3, 6, 8 or 10 meters Sealed Housing 3 or 6 meters |
| Lamp Housing Filter | None, side, rear, inside mount |
| IR Reduction | Reduction Kit IR Absorbing Reflector Only IR Window Only |
| Spiral Lamp Spectra Options | 107 mm diameter, type B spectra : 240 nm cutoff 107 mm diameter, type C spectra : 190 nm cutoff |
| Window Opening | 6.3" (160 mm) diameter |
| Optical Curing Area | Circular: 5.50" (139.7 mm) diameter |
| Optimum distance to target | 1.0" (25.4 mm) from window face |
| Systems | RC-901; RC-902, |
| Power Supplies | PS-916; PS-936 (6kW) |

POWER SUPPLY OPTIONS

| Description | Part Number | MAINS VOLTAGE |
|-----------------------------|-------------|---|
| Model PS-812, 2300 J/s, max | 289-0020 | 200 Vac-240 Vac, 50/60 Hz, 1-phase [note 1] |
| Model PS-813, 3400 J/s, max | 289-0019 | 200 Vac-240 Vac, 50/60 Hz, 1-phase |
| Model PS-916, 6000 J/s, max | 289-0022 | 200 Vac-240 Vac, 50/60 Hz, 1-phase |
| Model PS-833, 3400 J/s, max | 289-0024 | 200 Vac-240 Vac or 380 Vac- 480 Vac, 50/60 Hz, 3-phase [note 2] |
| Model PS-936, 6000 J/s, max | 289-0023 | 200 Vac-240 Vac or 380 Vac- 480 Vac, 50/60 Hz, 3-phase [note 2] |

Note 1: Model PS-812 should be used with the RC-801 and RC-802 systems (not RC-802 InterWeave) in the following applications:

- a - Continuous operation (100% Duty Cycle)
- b - High pulse rate: greater than 70 pps
- c - Low pulse energy: less than 20 J/pulse

Note 2: For 3-phase power supplies, mains input voltage range is factory configured. Specify desired range when ordering.

| OPTION | LAMP HOUSING | | | | | | |
|------------------------------------|---------------|-------------|-------------|------------|------------|------------|---------------|
| | LH-810 | LH-820 | LH-830 | LH-840 | LH-851/852 | LH-870 | LH-910 |
| Lamp Shape | Spiral | 10" U-Shape | 12" U-Shape | 16" Linear | 20" Linear | 30" Linear | Spiral |
| Curing Area | 5.5" diameter | 3" x 10" | 3" x 12" | 1" x 16" | 1" x 20" | 1" x 30" | 5.5" diameter |
| | | | | | 2" x 20" | | |
| Lamp Spectral Cut-Off | | | | | | | |
| Type A - 370 nm | | | | | √ | | |
| Type B - 240 nm | √ | √ | √ | √ | √ | √ | √ |
| Type C - 190 nm | √ | √ | √ | √ | √ | √ | √ |
| Lamp Housing Filter | | | | | | | |
| None | √ | | | | | | √ |
| Side Mount | √ | | | | | | √ |
| Rear Mount | √ | √ | √ | √ | √ | √ | √ |
| Inside Mount | √ | | | | | | √ |
| Lamp Housing Cable Length | | | | | | | |
| 3 meters | √ | √ | √ | √ | √ | √ | √ |
| 6 meters | √ | | | | | | √ |
| 8 meters | √ | | | | | | |
| 10 meters | √ | | | | | | |
| Pulse Energy and Pulse Rate | | | | | | | |
| 13 J/pulse @ 100pps | √ | √ | √ | | √ | | |
| 15 J/pulse @ 70pps | √ | √ | √ | | √ | | |
| 15 J/pulse @ 100pps | √ | √ | √ | | √ | | |
| 19.4 J/pulse @ 100pps | | | | | | √ | |
| 207J/pulse @ 10pps | √ | | | | | | |
| 207J/pulse @ 15pps | √ | | | | | | |
| 207J/pulse @ 25pps | | | | | | | √ |
| 505 J/pulse @ 3pps | | | | √ | | | |
| LiteMark-XL | √ | √ | √ | √ | √ | √ | √ |
| Controller | | | | | | | |
| InterWeave™ | √ | √ | √ | √ | √ | √ | √ |
| External Timer Control | √ | √ | √ | √ | √ | √ | √ |
| External PLC Control | √ | √ | √ | √ | √ | √ | √ |
| Timer Kit | √ | √ | √ | √ | √ | √ | √ |
| Switch Control Box | √ | √ | √ | √ | √ | √ | √ |
| RC-847 Cabinet | √ | √ | √ | √ | √ | √ | |
| PS-812 (2kW) | √ | √ | √ | √ | √ | | |
| PS-813; PS-833 (3kW) | √ | √ | √ | √ | √ | √ | √ |
| PS-916; PS-936 (6kW) | | | | | | √ | √ |
| Blower Kits | | | | | | | |
| BL-510, 50/60 Hz | √ | √ | √ | √ | √ | | |
| BL-1020, 60 Hz | √ | √ | √ | √ | √ | | |
| BL-1030, 50 Hz | √ | √ | √ | √ | √ | √ | |
| BL-1003, 3ph, 50/60Hz | √ | √ | √ | √ | √ | | |
| BL-2003, 3ph, 50/60Hz | | √ | √ | √ | √ | √ | √ |



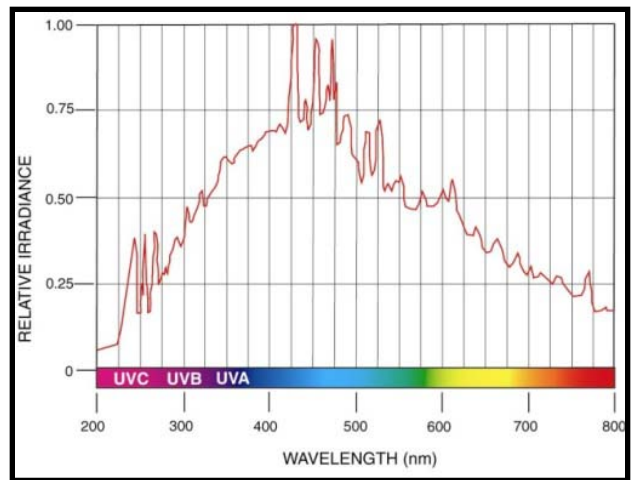
LH-810 and LH-910 Lamp Housings



LH-840, LH-850 and LH-870 Lamp Housings



LH-820 and LH-830 Lamp Housings



Typical Lamp C Spectra



XENON Corporation

37 Upton Drive
Wilmington, MA 01887-1018

USA

Telephone 1-978-661-9033

Fax 1-978-661-9055

E-mail info@xenoncorp.com

Web www.xenoncorp.com

© 2008 Xenon Corporation. All rights reserved. Information furnished by Xenon Corporation is believed to be accurate and reliable. However, no responsibility is assumed by Xenon Corporation for its use, or for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Xenon Corporation. Xenon Corporation and the Xenon logo are trademarks of Xenon Corporation.

Printed in the United States SD110b -04/09