

## Reactor (Model RPR-200)



The model RPR-200 reactor utilizes the same chamber as found in our popular 100 model. It was designed for vertical and horizontal operation. Unlike our standard 100 model, the 200 has greater flexibility. The Rayonet chamber lamps are controlled by dual switches located on the front panel. It is an intense source of ultraviolet light. approximately  $1.65 \times 10^8$  photons/sec/cm<sup>3</sup> at

2537A°. No special water jacketed vessels are required. Standard features include 16 light sources at 2537A°, 2-built in support rods and a 250 watt convenience outlet.

**Designed for the Photolysis of:** Heterocyclic Compounds, Ketones, Aromatic Nuclei, Halogen Derivatives, Conjugated Dienes, Thio Compounds, Polyenes, Olefins, Epoxides

Ideal for ICH Photo stability Testing.

### **OPTIONAL ACCESSORIES AVAILABLE:**

4 - Adjustable legs

Nitrogen manifold (for low temp study)

2 - Merry-Go-Round sample holders

Horizontal tray or rack

Cooling fan magnetic stirrer

### **RPR LIGHT SOURCES OPTIONS:**

1 849/2537A°, 2537A°, 41 90A°, 3000A°, 3500A°, 3800A°, 5750

*Economical* - Long lamp life is 3000 hours.

**SPECIFICATIONS:** Model RPR-200 is a compact 16" high, 14 1/2" square at base. Reactor chamber is 16" deep, 10" in diameter, with 2/8" openings at top and bottom. Light source arc length 9", operating temp 40°C; weight 50 lbs.; 110/227 volts, 50/60 Hz., A.C. Total current consumption approximately 400 watts. The finish is an attractive and powder coated process.

### **RPR-2537A° LAMPS AS USED IN THE RAYONET REACTOR**

Watts of 2537A° ultraviolet -- 35 watts approx.

Photos of 2537A° ultraviolet --  $1.65 \times 10^{16}$  sec/cm<sup>3</sup>.

<b>Wave Length (A°)</b>	<b>Center</b>	<b>2 Inches From Lamps</b>	<b>1.5 Inches From Lamps</b>
2537	12800	16000	21000
2652	388	488	640
2804	14	16	21
2894	18	16	21
2967	66	83	109
3022	32	40	52
3129	250	313	411
3654	213	267	351
4047	250	316	416
4359	768	960	1260
5461	418	523	687
5780	91	113	149

Above data from new lamps with a reactor temperature of 44°C.