

RADPlusTM Vial Rotator



Designed to be compatible with the RS 1800•Q & 1800•Q4 Biological Irradiators, specifically configured for cell irradiation applications

Instructions for Use

Loading

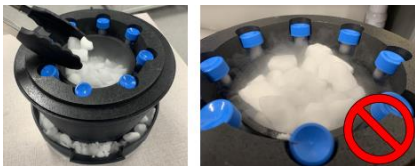
1. Lift cup & drop vials



2. Drop cup back in but do not press down.



3. Fill cup halfway with dry ice. Do not overfill cup and do not fill area outside of cup.



4. Place rotator on stand inside the chamber and align corners from below. The Vial rotator should be placed on the manual lift on the lower level, pushed back into position within the spacer, and raised manually into radiation position.



5. Push rotator under x-ray tube & turn knob on stand clockwise to raise rotator all the way. If dry ice makes noise, cup is overfilled.



6. Plug in rotator

Recommended Placement for Optimal Dosing

Place on floor of the chamber.
Use the spacer provided to position the jack of the Vial Rotator in the center.



Refill and Rotate

During first use, monitor dry ice every hour.

Recommended refill time:
3 hours

Turn rotator 90 degrees halfway through the cycle for more even dose delivery.

*Rad Source does not dictate protocol but suggests checking the dry ice every hour until your own protocol is established.

Unloading

1. Unplug rotator
2. Turn knob on stand to lower rotator all the way
3. Pull rotator forward and lift from stand
4. Remove dry ice if needed
5. Lift cup and remove vials

RADPlus™ Vial Rotator



Designed to be compatible with the RS 1800•Q & 1800•Q4 Biological Irradiators, specifically configured for cell irradiation applications

Ensures Optimal Dosing

Proprietary RADPlus material aids in uniform dosing and allows for higher dose rates. This technology ensures optimal and consistent dosing of the cells being irradiated compared to dosing in the absence of the RADPlus tool.

Functions as a placeholder for eight 15 mL vials.

Angle of Inclination

The Vial rotator's inclination angle provides higher dose rates for 15 mL vials, and a DUR comparable to the 50 mL Vial Holder.

Rotator Motion

Upon cycle start up, the rotator motor in the center spins the cup which in turn rotates the vials for better dose uniformity across all vials.

Accounts for Sample Preservation

Dry ice is used for continual freezing that can be placed within the cup in the middle and on the outside ledge.



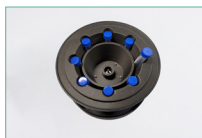
RADPlus Shelf



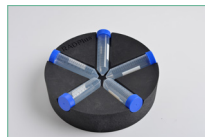
Well Plate Holder



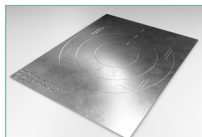
Petri Dish Holder



Vial Rotator



Vial Holder



Aluminum Shelf

Visit our website using the QR code below for more info on our RADPlus Research Solutions.

Technical Specifications

	2kW Irradiator	4 kW Irradiator
Dose Rate	32.5 Gy/min	65 Gy/min
DUR	1.45	
Weight	11.4 lbs	

Note: Dose rate specified above is the minimum dose rate across the RADPlus material.

$$DUR = 100 \times \frac{D_{max}}{D_{min}}$$

ORDERING INFORMATION

• Vial Rotator

RS# 1409656



SCAN ME

Rad Source is a global leader in developing x-ray solutions for life science. Our mission is to develop innovative x-ray technologies that enable our customers to improve the world through life science research and life saving innovation. Whether our customers are doing cell or cancer research, solving life's most challenging issues or preventing the spread of infectious diseases, we are here to support them. Our global network of employees and partners deliver an unrivaled combination of the world's most innovative x-ray based life science solutions and a highly trained and responsive global service and support footprint. RADPlus research tools are for use with Rad Source equipment ONLY.

For more info, visit www.radsources.com or call 678-765-7900



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