



SYNTHECON

3D Culture Systems for a 3D World

RCCS-2SC

Stem Cell



Dual Station Rotator Base

Power Supply

(with Tachometer and Ribbon Cable)

Operation Manual

Two Stem Cell Culture Vessels

- Low cost, easy to use system which makes the technology available to most laboratories.
- Two autoclavable Stem Cell type culture vessel of your choice (1mL, 2mL, 4mL or 10mL)
- Sterile valves for vessels and vessel assembly tool included.



FAQ

Q: How are the cells oxygenated?

A: In a gas regulated incubator, gas diffuses through the silicone membrane of the bioreactor.

Q: Do the cells stay in one place in the bioreactor?

A: No, they continuously fall through the media during vessel rotation. The continuous motion of the cells in media facilitates their exposure to nutrients.

Q: Is the RCCS a roller bottle system?

A: No. Roller bottles grow cells on the wall of the bottle in 2D. The RCCS grows cells in suspension, either as 3D spheroids or on scaffolds/beads.

The Synthecon Rotary Cell Culture System

Produces differentiated high density, three dimensional tissue cultures.

Membrane oxygenation provides bubble free operation, which results in an extremely gentle culture.

Operates in standard incubators. Samples may be easily drawn at any time.

Ideal for growing and maintaining normal tissues, cancer tumors spheroids and bacteria/virally infected tissue models.

Synthecon can design and build systems to user's specifications.

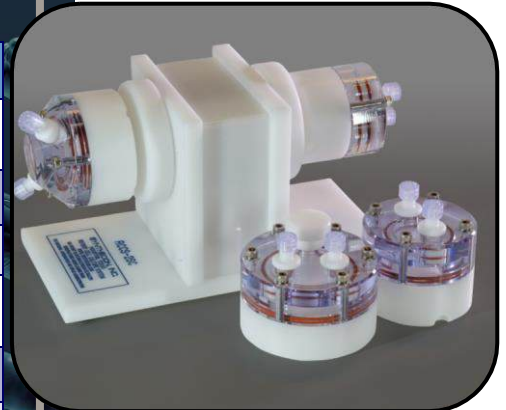
* For additional FAQs visit www.synthecon.com/faq

RCCS-2SC

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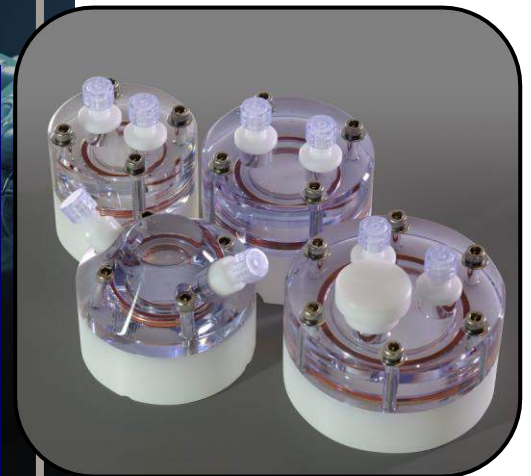
TECHNICAL SPECIFICATIONS-DIMENSIONS RCCS-2SC

COMPONENT	HEIGHT	WIDTH	DEPTH
Base	5.0" (12.7 cm)	4.0" (10.2 cm)	8.0" (20.3 cm)
Power Supply	2.5" (6.35 cm)	5.0" (12.7 cm)	14.0" (5.5 cm)
COMPONENT	WEIGHT	ROTATIONAL SPEED	—
Base	2.4 lbs (1.13 Kg)	5-35 RPM	—
Power Supply	2.0 lbs (.94Kg)	—	—



RCCS-2SC POWER AND ENVIRONMENTAL SPECIFICATIONS

POWER	VOLTAGE	FREQUENCY
Power Supply Input	USA 120 VAC @ .25Amps OTHER 240 VAC @ .125Amps	50-60 Hz
Power Supply Output	7.5 VDC @ .8Amps	50-60 Hz
ENVIRONMENT	TEMPERATURE	HUMIDITY
Base	50-105 °F (10-40 °C)	0-100% RH
Power Supply	50-80 °F (10-27 °C)	0-75% RH



RCCS-2SC COMPATIBLE CULTURE VESSELS

CULTURE VESSEL MODEL	SIZE	COMPATIBILITY
Disposable HARV	10 mL	Yes
Disposable HARV	50mL	Yes
Autoclavable HARV	1 mL	Yes
Autoclavable HARV	2 mL	Yes
Autoclavable HARV	4 mL	Yes
Autoclavable HARV	10 mL	Yes
Autoclavable HARV	50 mL	No
Autoclavable STLV	55 mL	No
Autoclavable STLV	110 mL	No
Autoclavable STLV	250 mL	No
Autoclavable STLV	500 mL	No

Two Stem Cell Autoclavable HARVs are provided with the RCCS-2SC System. All other compatible vessel types are ordered separately.
Visit www.synthecon.com for more details.

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