



# 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](http://www.synthecon.com/faq)

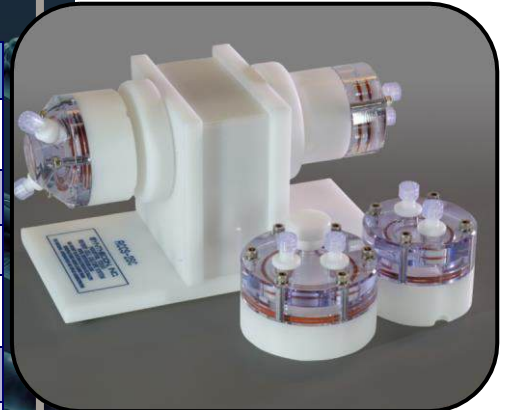
RCCS-2SC



# RCCS-2SC

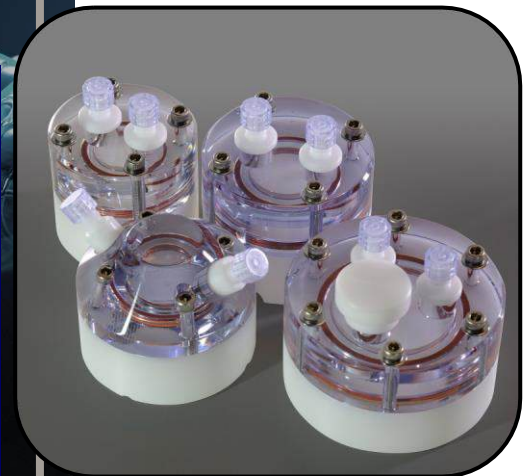
## TECHNICAL SPECIFICATIONS-DIMENSIONS RCCS-2SC

| 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<br>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](http://www.synthecon.com) for more details.

**3D Culture Systems**  
for a 3D World

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