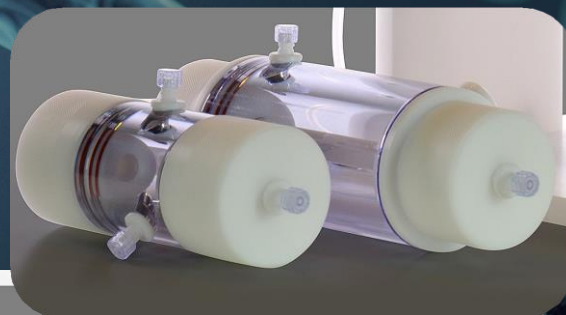




SYNTHECON

3D Culture Systems for a 3D World

RCCMax



Single Station Rotator Base

- Allows continuous feeding from external media bottle. Cells are retained in culture chamber via a molecular weight cutoff membrane.

Power Supply

(with Tachometer and Ribbon Cable)

Operation Manual

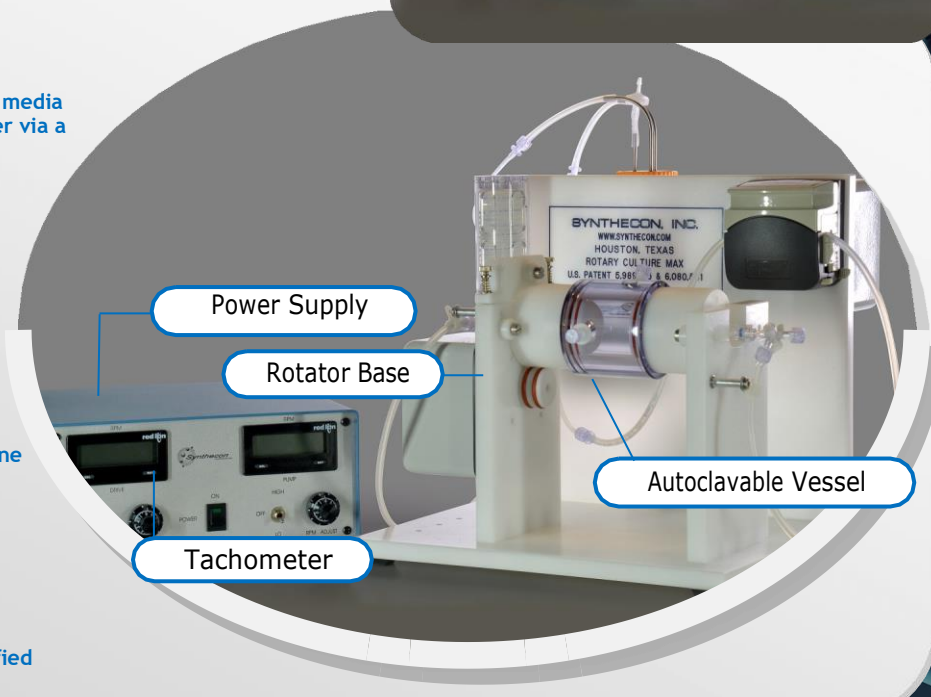
Oxygenator

- Media flows through an external silicone oxygenator via a peristaltic pump.

Peristaltic Pump

Single or Dual Vessel

- Media can be exchanged, sampled, or modified without stopping vessel rotation.



FAQ

Q: How are the cells oxygenated?

A: In a gas regulated incubator, gas diffuses through the silicone membrane located in the oxygenator assembly

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 RCMW a roller bottle system?

A: No. Roller bottles grow cells on the wall of the bottle in 2D. The RCMW 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

RCCMax

RCCMax

TECHNICAL SPECIFICATIONS-DIMENSIONS RCCMax

COMPONENT	HEIGHT	WIDTH	DEPTH
Base	9.0" (33.0 cm)	15.0" (38.1 cm)	13.0" (33.0 cm)
Power Supply	4.5" (11.4 cm)	9.5" (24.1 cm)	9.5" (24.1 cm)
COMPONENT	WEIGHT	ROTATIONAL SPEED	AIR PUMP FLOW RATE
Base	14.5 lbs (6.84 Kg)	7-40 RPM	—
Power Supply	6.5 lbs (3.06 Kg)	—	—
Air Pump	—	1-30 RPM	.5-15 mL/min

RCCMax POWER AND ENVIRONMENTAL SPECIFICATIONS

POWER	VOLTAGE	FREQUENCY
Power Supply Input	85-260 VAC @ .5Amps	50-60 Hz
Power Supply Output	27 VDC @ .25Amps	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

RCCMax COMPATIBLE CULTURE VESSELS

CULTURE VESSEL MODEL	SIZE	COMPATIBILITY
Autoclavable RCCMax Vessel	100 mL	Yes
Autoclavable RCCMax Vessel	125 mL	Yes
Autoclavable RCCMax Vessel	150 mL	Yes

A single or dual vessel can be manufactured. Visit www.synthecon.com for more details.



3D Culture Systems
for a 3D World

RCCMax Vessels

TECHNICAL SPECIFICATIONS-DIMENSIONS (Vessel Chamber- Inner Vessel)

VESSEL	CHAMBER ID	CHAMBER LENGTH	VESSEL OD	VESSEL LENGTH
50mL	1.663"	1.555"	2.863"	6.05"
100mL	1.668"	3.25"	2.868"	6.05"
125mL	1.750"	3.48"	2.95"	6.98"
150mL	1.75"	4.35"	2.95"	8.85"
250mL	2.125"	4.709"	3.325"	8.85"

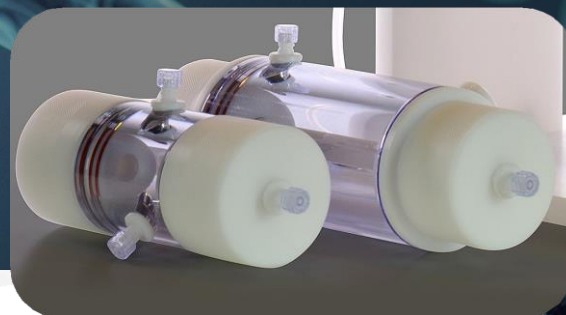
3D Culture Systems
for a 3D World



SYNTHECON

3D Culture Systems for a 3D World

RCCMax Dual



Single Station Rotator Base

- Allows continuous feeding from external media bottle. Cells are retained in culture chamber via a molecular weight cutoff membrane.

Power Supply

(with Tachometer and Ribbon Cable)

Operation Manual

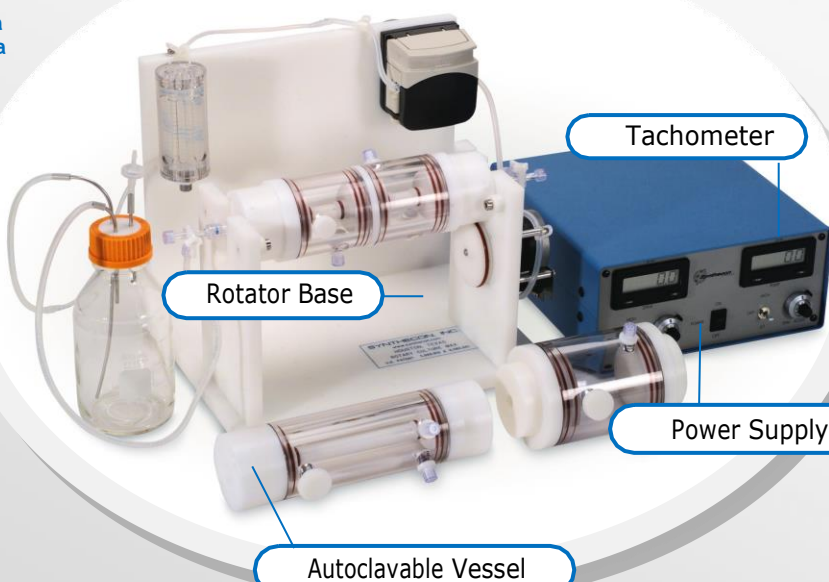
Oxygenator

- Media flows through an external silicone oxygenator via a peristaltic pump.

Peristaltic Pump

Single or Dual Vessel

- Media can be exchanged, sampled, or modified without stopping vessel rotation.



FAQ

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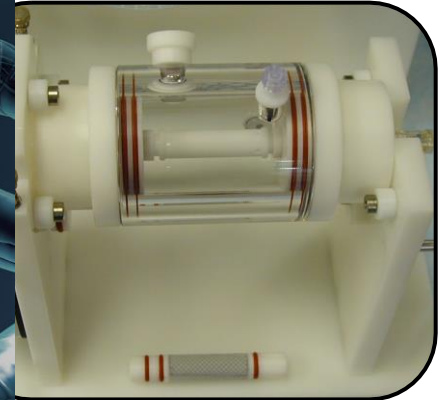
* For additional FAQs visit www.synthecon.com/faq

RCCMax Dual

RCCMax Dual

TECHNICAL SPECIFICATIONS-DIMENSIONS RCCMax Dual

COMPONENT	HEIGHT	WIDTH	DEPTH
Base	9.0" (33.0 cm)	15.0" (38.1 cm)	13.0" (33.0 cm)
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Air Pump	—	1-30 RPM	.5-15 mL/min



RCCMax Dual POWER AND ENVIRONMENTAL SPECIFICATIONS

POWER	VOLTAGE	FREQUENCY
Power Supply Input	85-260 VAC @ .5Amps	50-60 Hz
Power Supply Output	27 VDC @ .25Amps	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

RCCMax COMPATIBLE CULTURE VESSELS

CULTURE VESSEL MODEL	SIZE	COMPATIBILITY
Autoclavable RCCMax Vessel	50 mL	Yes

A single or dual vessel can be manufactured. Custom volumes available. Visit www.synthecon.com for more details.

3D Culture Systems
for a 3D World

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