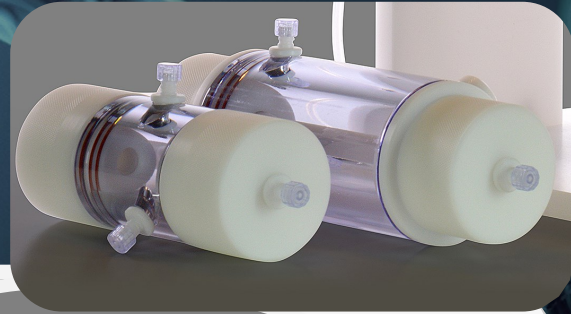




3D Culture Systems for a 3D World

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

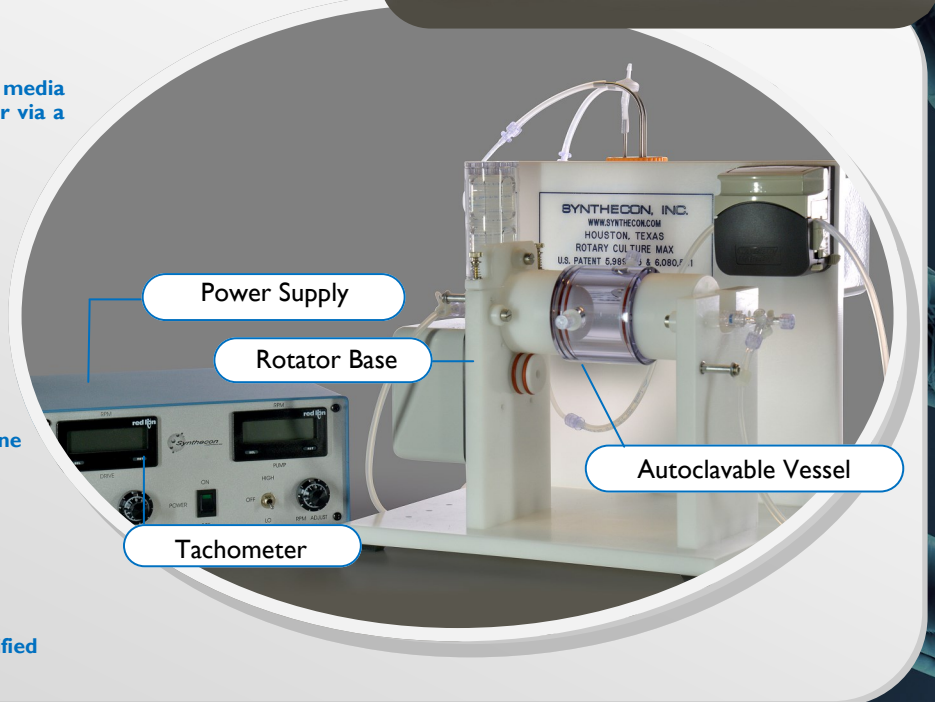
Oxygenator

- 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.

