

# CTS Rotea Counterflow Centrifugation System

Closed cell therapy processing system



## Key features of the Gibco™ CTS™ Rotea™ Counterflow Centrifugation System

- **Low output volumes**—proprietary technology can deliver as little as 5 mL of cell concentrate
- **Process flexibility**—user-programmable software enables you to create and optimize a broad range of protocols for cell separation, washing, and concentration
- **High cell recovery and viability**—gentle processing enables >95% cell recovery with the ability to maintain cell viability
- **From research through commercial manufacturing**—closed single-use kit enables sterile processing, and OPC-UA\* interface enables connectivity to a 21 CFR Part 11–compliant system

Specifications	
<b>Instrument</b>	
Centrifugal force	3,000 x g
Peristaltic pump flow rate	5–110 mL/min (standard kit); 30–160 mL/min (Hi-Flow kit)
Centrifuge chamber volume	10 mL
Cell count per chamber load	5 x 10 <sup>7</sup> –5 x 10 <sup>9</sup> cells**
Output cell concentration	5 x 10 <sup>6</sup> –500 x 10 <sup>6</sup> cells/mL
Recommended input volume range	50 mL–20 L
Minimum output volume	5 mL
Maximum fluid density	1.10 g/mL
Operating noise level	<70 dBA
Dimensions (H x W x D)	16 (body only)/30 (with bag poles) x 11.4 x 20 in. (40.6 (body only)/76.2 (with bag poles) x 29 x 50.8 cm)
Weight	44 lb (20 kg)
Tablet accessory model	2-in-1 Dell™ system (laptop and tablet)
System Cat. No.	A50757† A47695‡ CTS Rotea Counterflow Centrifugation System + 2 year warranty (including OQ after PM) + IQOQ A50760† A47679‡ CTS Rotea Counterflow Centrifugation System + 2 year warranty (including PM)
<b>Consumables</b>	
Kit tubing material	DEHP-free PVC
Tube dimensions	0.160 in. OD, 0.116 in. ID (4 mm OD, 3 mm ID)
Pump tube material	Bioprene™ plastic
Counterflow centrifuge chamber material	Tritan™ MX711 copolyester
Sterilization method	Gamma irradiation
Consumable Cat. No.	Standard kit: A49585 (10 pk); A49313 (5 pk); Hi-Flow kit: A46575 (10 pk); A49239 (5 pk)
<b>Accessories</b>	
Rotea Kit Tube Clamps	A49127 (100 pk)
Rotea Kit Sterile Connectors	A50110 (10 pk)
Rotea Kit Sterile Sample Ports	A50110 (10 pk)

\* OPC-UA: Open Platform Communications United Architecture.

\*\* Dependent upon cell type. Centrifuge can be filled multiple times to process larger batches.

† North America, Europe.

‡ Rest of World

Note: Instrument and Consumable Regulatory Support File available upon request at [thermofisher.com/regulatory](http://thermofisher.com/regulatory)

Find out more at [thermofisher.com/rotea](http://thermofisher.com/rotea)

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