



CryoMed Controlled-Rate Freezer with OPC UA, Medical Device

Optimal freezing and protection

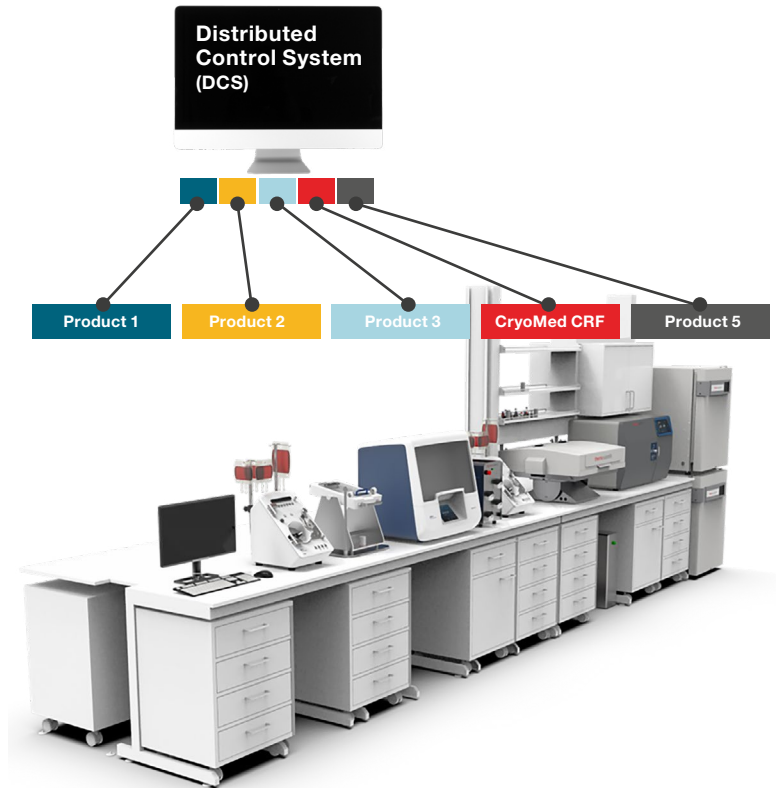
Thermo Scientific™ CryoMed™ Controlled-Rate Freezers with OPC UA provide precise, repeatable freezing results that protect precious samples from intracellular freezing. They are equipped with enhanced data traceability features to support audit requirements and they offer customizable freezing profiles while supporting 21 CFR Part 11 compliance and GMP needs. Once frozen, samples can be placed into long-term cryo storage or shipped near and far with cryo transport solutions.

- Onboard Open Platform Communications United Architecture (OPC UA) server—ethernet only
- UI logs usage and events support compliance with 21 CFR Part 11 requirements
- User security: Three levels of user accessibility
- USB data export of PDF file run logs support 21 CFR Part 11 compliance
- FDA-listed Class II medical device, 510K exempt (USA version only)
- Real-time run monitoring for sample protection
- Reliable temperature performance for high-throughput usage

Enhanced data traceability

Providing lab simplicity through automation capabilities

The CryoMed Controlled-Rate Freezer with OPC UA firmware comes integrated with OPC UA (Open Platform Communications United Architecture) protocol, enabling equipment communication via Distributed Control Systems (DCS). Introducing this automated process into your lab can help simplify operational complexity, lower project risk, save overall operation costs, and enables you to manage the entirety of the cell therapy workflow.



Order details

CryoMed Controlled-Rate Freezer with OPC UA, Medical Device

Chamber volume	Printer/ no printer	Temp. range	Exterior dimensions W x H x D in. (cm)	Interior dimensions W x H x D in. (cm)	Product weight	LN ₂ and utility connection	Electrical	Plug type	Cat. No.
17 L (0.6 cu. ft.)	No thermal printer	+50°C to -180°C	37.3 x 21.7 x 24.3 (94.7 x 55.1 x 61)	7 x 12 x 13 (17.8 x 30.5 x 33)	154 lbs. (69.8 kg)	Requires 22 PSIG (1.5 bar) low pressure supply tank. Comes with one 6-foot braided stainless steel hose with .5" x 45 degree flare connectors	120v/60Hz	NEMA 5-15P	TSCM17CA
34 L (1.2 cu. ft.)			43.3 x 21.7 x 24.3 (109.9 x 55.1 x 61)	13 x 12 x 13 (33 x 30.5 x 33)	174 lbs. (78.9 kg)		120v/60Hz	NEMA 5-15P	TSCM34CA
48.1 L (1.7 cu. ft.)			49.3 x 21.7 x 24.3 (125.2 x 55.1 x 61)	19 x 12 x 13 (48.3 x 30.5 x 33)	191 lbs. (86.6 kg)		120v/60Hz	NEMA 5-15P	TSCM48CA
17 L (0.6 cu. ft.)	Built-in thermal printer		37.3 x 21.7 x 24.3 (94.7 x 55.1 x 61)	7 x 12 x 13 (17.8 x 30.5 x 33)	155 lbs. (70.3 kg)		120v/60Hz	NEMA 5-15P	TSCM17TA
34 L (1.2 cu. ft.)			43.3 x 21.7 x 24.3 (109.9 x 55.1 x 61)	13 x 12 x 13 (33 x 30.5 x 33)	175 lbs. (79.3 kg)		120v/60Hz	NEMA 5-15P	TSCM34TA
48.1 L (1.7 cu. ft.)			49.3 x 21.7 x 24.3 (125.2 x 55.1 x 61)	19 x 12 x 13 (48.3 x 30.5 x 33)	192 lbs. (87 kg)		120v/60Hz	NEMA 5-15P	TSCM48TA

CryoMed CRF sensors

Description	Cat. No.		
	CryoMed 0.6 cu. ft.	CryoMed 1.2 cu. ft.	CryoMed 1.7 cu. ft.
Thermocouple sensor for 1.2/2 mL vials		4000385	
Thermocouple sensor for 4/5 mL vials		4000386	
Thermocouple sensor ribbon type for bags		4000393	
Thermocouple sensor .02 sheath for straws		4000384	



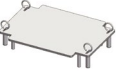




CryoMed CRF canisters for freezing racks

Bag type/size	Description	Dimensions L x W x D (in./cm)	Cat. No.
Pall MEDSEP 25 mL, OriGen CS 25, or equivalent	Swing arm canister for 25 mL bag	3.6 x 3.9 x 0.4 (9.14 x 9.4 x 1)	1950831
Fenwal 4R9951, OriGen CS 50, or equivalent	Swing arm canister for 50 mL bag	3.7 x 6.3 x 0.5 (9.4 x 16 x 1.3)	4000610
Gambro DF-200 or CryoMACS 50 and 250	Swing arm canister for 200 mL bag	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)	4000356
Gambro DF-700, OriGen CS 1000, or CryoMACS 750 and 1000	Swing arm canister for 700 mL bag	6.5 x 12.1 x 0.8 (16.5 x 30.7 x 2)	4000357
Fenwal 4R5461, OriGen CS 25, or CryoMACS 50 and 250	Sliding canister for 250 mL bag	5.5 x 7.6 x 0.4 (14 x 19.3 x 1)	4000335
Fenwal 4R5462, OriGen CS 500, or equivalent	Sliding canister for 500 mL bag	5.6 x 9.2 x 0.4 (14.2 x 23.4 x 1)	4000336
Gambro DF-200 or equivalent	Sliding canister for 200 mL bag	6.4 x 7.8 x 0.8 (16.3 x 19.1 x 2)	4000332
Gambro DF-700, OriGen CS 1000, or CryoMACS 750 and 1000	Sliding canister for 700 mL bag	6.5 x 11.8 x 0.8 (16.5 x 30 x 2)	4000333

CryoMed CRF printer paper

Description	Cat. No.
Thermal printer paper (5 rolls per pack)	4000566

CryoMed CRF bag freezing presses

Image	Description	Dimensions W x D (in./cm)	Storage	CryoMed 0.6 cu. ft.	CryoMed 1.2 cu. ft.	CryoMed 1.7 cu. ft.	Cat. No.
	Bag press for 250 mL bag (Fenwal 4R5461 or OriGen CryoStore 250)	5.9 x 9 (15 x 22.9)	Presses per chamber Bags per press Total no. bags per chamber	4 2 8	8 2 16	12 2 24	4000314
	Bag press for 200 mL bag (Gambro DF-200 or CryoMACS 50 and 250)	8 x 8.5 (20.3 x 21.6)	Presses per chamber Bags per press Total no. bags per chamber	N/A N/A N/A	4 2 8	8 2 16	4000316
	Bag press for Delmed 2030-2	8.8 x 12 (22.4 x 30.5)	Presses per chamber Bags per press Total no. bags per chamber	N/A N/A N/A	4 4 16	8 4 32	4000317
	Bag press for 250 mL bag (Fenwal 4R5461 or CryoStore 250)	9 x 12 (22.9 x 30.5)	Presses per chamber Bags per press Total no. bags per chamber	N/A N/A N/A	4 4 16	8 4 32	4000318
	Bag press for 200 mL bag (Gambro DF-200 or equivalent)	9 x 12 (22.9 x 30.5)	Presses per chamber Bags per press Total no. bags per chamber	N/A N/A N/A	4 4 16	8 4 32	4000320
	Bag press for 700 mL bag (Gambro DF-700 or equivalent)	8 x 12 (20.3 x 30.5)	Presses per chamber Bags per press Total no. bags per chamber	N/A N/A N/A	4 2 8	8 2 16	4000321
	Bag press for 500 mL bag (Fenwal 4R5462 or CryoMACS 500 and 750, CryoStore 500)	6 x 10.3 (15.2 x 26.2)	Presses per chamber Bags per press Total no. bags per chamber	4 2 8	6 2 12	12 2 24	4000555

CryoMed CRF compliance services¹

Qualification/service	Overview of qualification/service	Description	Cat. No.
Installation qualification (IQ) ²	<ul style="list-style-type: none"> Verifies that the equipment, manuals, supplies, and any other accessories arrived undamaged as specified in the sales order; verifies equipment and any other accessories are assembled and installed Verifies that the installation site and equipment environment meet manufacturer-specified environmental requirements 	On-site IQ/OQ service	IOQPCKE89003505
Operation qualification (OQ)	<ul style="list-style-type: none"> Detailed configuration information for each system component has been recorded (as applicable) Verifies important equipment functions and ensures that the equipment operates as expected by the manufacturer and in conformance with standards and requirements 2 point temperature verification performed on chamber and sample readings (as per purchased configuration) Key tests: Power failure and temperature alerts 		
Temperature mapping ³	<ul style="list-style-type: none"> Identifies temperature variations across the chamber space Temp map test: Manufacturing performance specifications verified via a multi point temperature mapping with recommended test profile and probe configuration. 	On-site IQ/OQ + temperature mapping service	IOPQPCKE89003505
		On-site temperature mapping service	TEMPMAP
Calibration ⁴	<ul style="list-style-type: none"> Periodic verification that equipment is producing accurate results within specified limits compared to traceable standards of measurement 	Temperature calibration ISO 17025	CALPRCOLD
		Temperature calibration ISO 9001	CALBCCOLD

1. Compliance services are only available in select locations including the United States, Germany, France, the United Kingdom, Ireland, Spain, Portugal, Italy, Austria, Switzerland, Norway, Sweden, Denmark, Belgium and the Netherlands. Key tests may vary by region. For more information, contact your local sales or service representative.
2. Installation of equipment is not included within our IQ services. Additional fees apply for inside delivery shipping method or for full installation and setup of equipment.
3. Key test offerings may vary by region.
4. Calibration services are only offered in North America. Not available outside the North America region.



Learn more at [thermofisher.com/cryomedmd](https://www.thermofisher.com/cryomedmd)

For the preparation of samples for storage at ultra-low or cryogenic temperatures (-80°C to -196°C) to support medical applications. Intended for use: 1) As a device used to prepare samples for research use. 2) As a device for preparation of samples intended to be introduced into the human body, such as primary cell lines, stem cells (hESC), Car T and whole blood or blood components. 3) As a processing device for use in vaccine and pharmaceutical production. © 2022 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. G Pall is a trademark of Pall Corporation. Fenwal is a trademark of Baxter Healthcare. OriGen and CryoStore are trademarks of OriGen Biomedical Corp. Gambro is a trademark of Gambro Lundia AB. CryoMACS is a trademark of Miltenyi Biotec B.V. & Co. Delmed is a trademark of Delmed Inc. COL019105 MD 0322