



CryoMed Controlled-Rate Freezer with OPC UA, General Purpose

Optimal freezing and protection

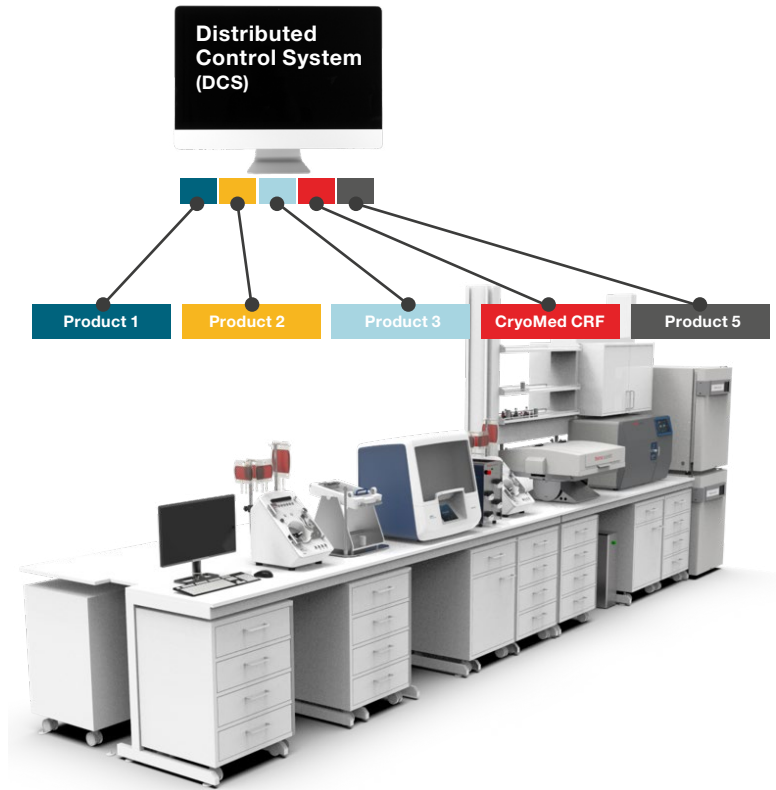
Thermo Scientific™ CryoMed™ Controlled-Rate Freezers with OPC UA provide precise, repeatable freezing results that protect precious samples from intracellular freezing. They are equipped with enhanced data traceability features to support audit requirements and they offer customizable freezing profiles 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
- 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, General Purpose

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)	All models require 22 psi (1.5 bar) low pressure supply tank and are supplied with one 6-foot braided stainless steel hose with .5" x 45 degree flare connectors on each end	120v/60Hz	NEMA 5-15P	TSCM17SA
34 L (1.2 cu. ft.)			43.3 x 21.7 x 24.3 (109.9 x 55.1x 61)	13 x 12 x 13 (33 x 30.5 x 33)	174 lbs. (78.9 kg)		220v/50Hz	CEE 7/7	TSCM17SV
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	TSCM34SA
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)		220v/50Hz	CEE 7/7	TSCM34SV
34 L (1.2 cu. ft.)			43.3 x 21.7 x 24.3 (109.9 x 55.1x 61)	13 x 12 x 13 (33 x 30.5 x 33)	175 lbs. (79.3 kg)		120v/60Hz	NEMA 5-15P	TSCM48SA
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)		220v/50Hz	CEE 7/7	TSCM48SV
							120v/60Hz	NEMA 5-15P	TSCM17FA
							220v/50Hz	CEE 7/7	TSCM17FV
							120v/60Hz	NEMA 5-15P	TSCM34FA
							220v/50Hz	CEE 7/7	TSCM34FV
							120v/60Hz	NEMA 5-15P	TSCM48FA
							220v/50Hz	CEE 7/7	TSCM48FV

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	



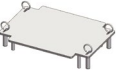




CryoMed CRF canisters for freezing racks

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	4	8	12	4000314
			Bags per press	2	2	2	
			Total no. bags per chamber	8	16	24	
	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	N/A	4	8	4000316
			Bags per press	N/A	2	2	
			Total no. bags per chamber	N/A	8	16	
	Bag press for Delmed 2030-2	8.8 x 12 (22.4 x 30.5)	Presses per chamber	N/A	4	8	4000317
			Bags per press	N/A	4	4	
			Total no. bags per chamber	N/A	16	32	
	Bag press for 250 mL bag (Fenwal 4R5461 or CryoStore 250)	9 x 12 (22.9 x 30.5)	Presses per chamber	N/A	4	8	4000318
			Bags per press	N/A	4	4	
			Total no. bags per chamber	N/A	16	32	
	Bag press for 200 mL bag (Gambro DF-200 or equivalent)	9 x 12 (22.9 x 30.5)	Presses per chamber	N/A	4	8	4000320
			Bags per press	N/A	4	4	
			Total no. bags per chamber	N/A	16	32	
	Bag press for 700 mL bag (Gambro DF-700 or equivalent)	8 x 12 (20.3 x 30.5)	Presses per chamber	N/A	4	8	4000321
			Bags per press	N/A	2	2	
			Total no. bags per chamber	N/A	8	16	
	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	4	6	12	4000555
			Bags per press	2	2	2	
			Total no. bags per chamber	8	12	24	

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	IQQPCKE89003505
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.



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