



Green Cooling, Intensified

Store safer, store larger, store smarter: the CryoCube® F740h

Your Solution for Long-Term Sample Safety

The Eppendorf R&D team had a distinct goal: Take what was already great and make it better. The known and proven Eppendorf freezer concept was improved with new technologies and enhanced benefits for you as a user.

The CryoCube F740 series »h« ULT Freezer is the latest addition to the Eppendorf Freezer Family. Combining the high-quality tradition of our previous freezers with an increased capacity, the CryoCube F740h is designed to store more of your samples securely while maintaining optimal energy usage. The integration of the PhysioCare Concept® during development means that the CryoCube F740h is easier and more comfortable to use, reduces user stress, supports an ergonomic workspace, and provides optimal workflow in the lab.

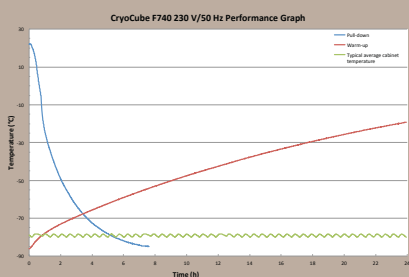
Sample security

- > Rapid door-opening recovery times to maintain temperature during sample access
- > Robust and reliable insulation enables "24/7"-safe, -80 °C conditions.
- > A reliable harbor for your valuable samples: Set -80 °C and maintain -80 °C



Energy efficiency

- > Fast pull-down times to bring your freezer to temperature with minimal energy usage
- > Vacuum insulation panel comes standard
- > Flat and flexible outer gaskets and optimized inner gaskets
- > Green cooling and reliable cascade compressor systems

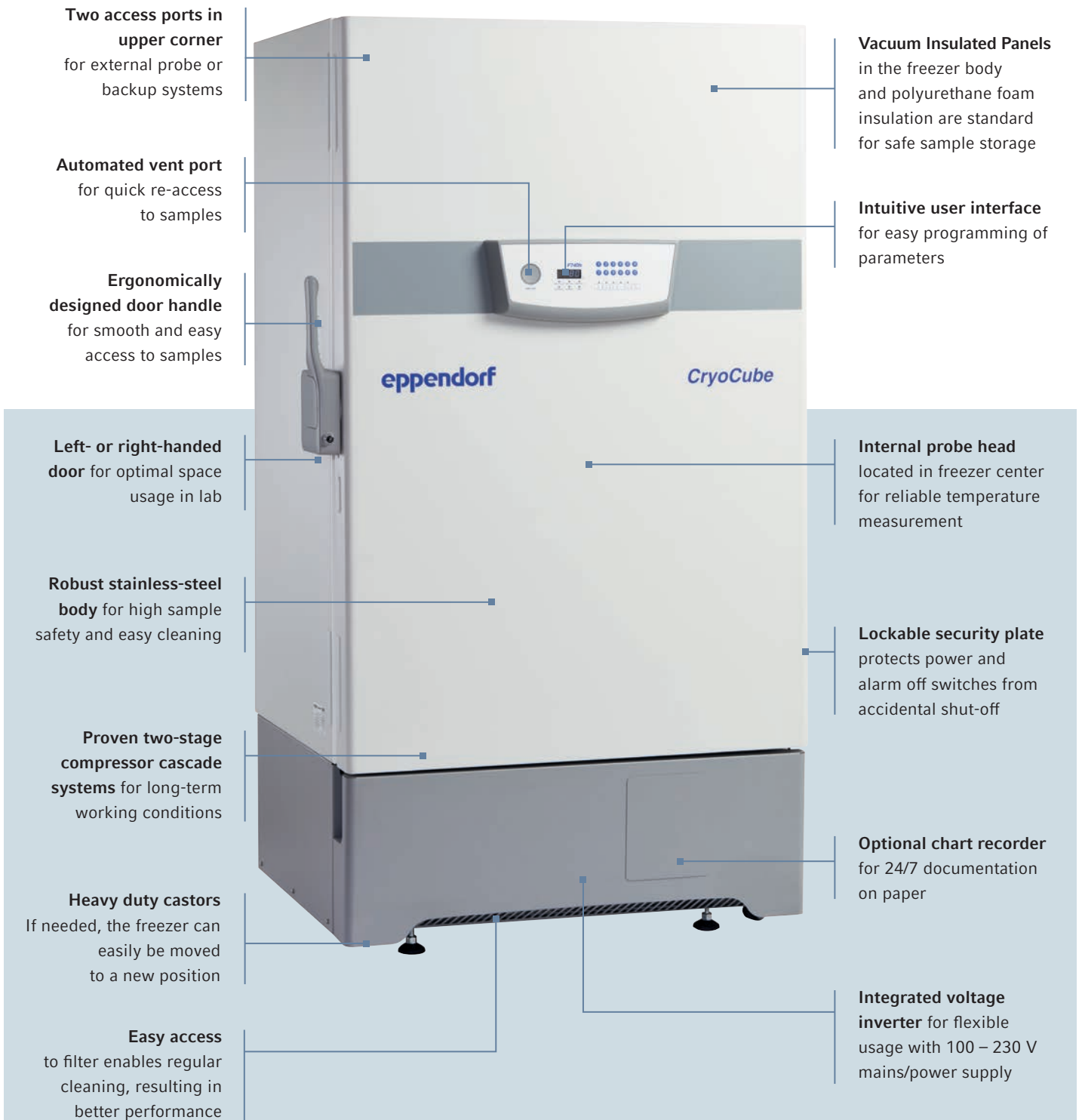


User-friendly

- > Easy-to-use interface at eye-level for fast and convenient adjustments
- > Automated vent port on the front of the door for quick re-access to samples
- > Easy access to filter enables regular cleaning, resulting in better performance



CryoCube® F740h



Two access ports in upper corner for external probe or backup systems

Automated vent port for quick re-access to samples

Ergonomically designed door handle for smooth and easy access to samples

Left- or right-handed door for optimal space usage in lab

Robust stainless-steel body for high sample safety and easy cleaning

Proven two-stage compressor cascade systems for long-term working conditions

Heavy duty castors
If needed, the freezer can easily be moved to a new position

Easy access to filter enables regular cleaning, resulting in better performance

Vacuum Insulated Panels in the freezer body and polyurethane foam insulation are standard for safe sample storage

Intuitive user interface for easy programming of parameters

Internal probe head located in freezer center for reliable temperature measurement

Lockable security plate protects power and alarm off switches from accidental shut-off

Optional chart recorder for 24/7 documentation on paper

Integrated voltage inverter for flexible usage with 100 – 230 V mains/power supply

Technical Specifications*

Power	Mains/power supply (A)	115 V, 60 Hz	12		
		208 - 230 V, 60 Hz	9		
		230 V, 50 Hz	6		
	kWh per day¹ (-80 °C/-70 °C)	115 V, 60 Hz	13.0/8.9		
		208 - 230 V, 60 Hz	11.8/8.1		
		230 V, 50 Hz	11.8/8.1		
Capacity	Overall	740 L (26.13 ft ³)			
	Compartments		3	5	
	Racks per shelf		6	6	
	Racks per freezer		18	30	
	Box capacity per rack	2 in (53 mm) box (H)	32	16 (24)	
		3 in (76 mm) box (H)	20	8 (16)	
		4 in (102 mm) box (H)	16	8 (12)	
	Box capacity per freezer	2 in (53 mm) box (H)	576	528	
		3 in (76 mm) box (H)	360	288	
		4 in (102 mm) box (H)	288	264	
Sample capacity per freezer	2 in (53 mm) box (H)	57,600	52,800		
Performance	Noise level (dB)	230 V, 50 Hz	47.8		
	Max. heat output (-80 °C/-70 °C) (Watts)	115 V, 60 Hz	542/371		
		208 - 230 V, 60 Hz	492/338		
		230 V, 50 Hz	492/338		
Cooling	Refrigerant	R290/R170			
	Cool down time to -80 °C	4 h 10 min			
Dimensions	External^{2,3,4}	Height	197.3 cm/77.7 in		
		Width	109.9 cm/43.3 in		
		Depth	91.5 cm/36.0 in		
	Internal	Height	139.0 cm/54.7 in		
		Width	86.5 cm/34.1 in		
		Depth	62.1 cm /24.5 in		
Weight	Net weight	308.0 kg/679.0 lbs		317.0 kg/699.0 lbs	
	Shipping weight	357.0 kg/787.0 lbs		366.0 kg/807.0 lbs	

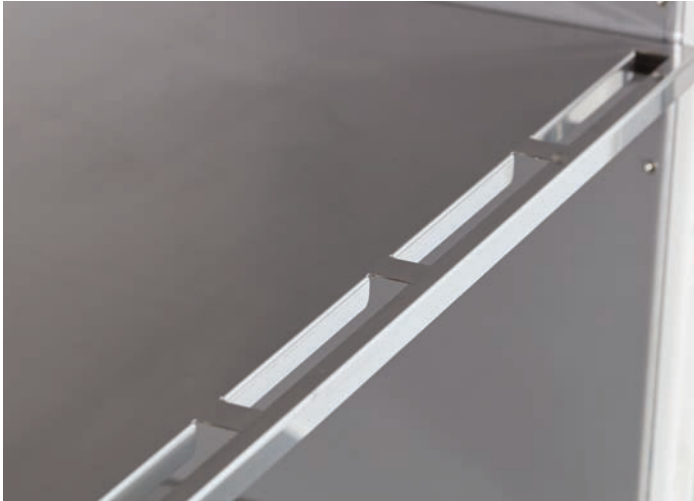
*Specifications subject to change.

¹Empty freezer with shelves fitted, upright freezers only, set point -80 °C, 20 °C ambient conditions. ²Optional CO₂/LN₂ back-up systems add 8.65 cm/3.5 in to height.

³To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to the depth. ⁴Door open adds up to 15 cm.

Ordering information

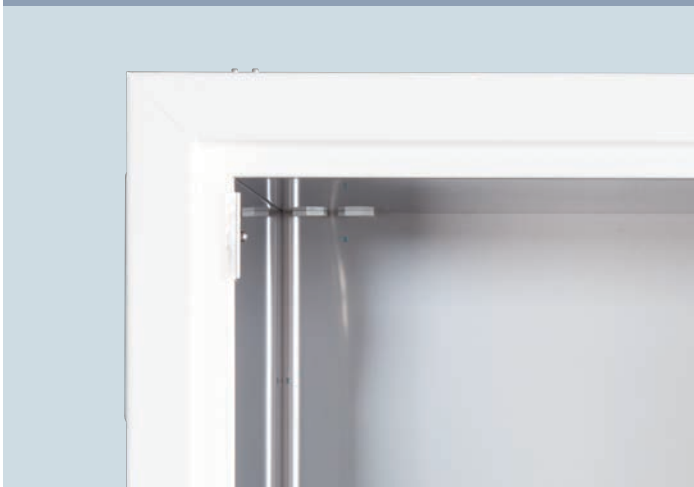
Right or left door handle	Inner compartments	Voltage	Order no.
Left	5	115 V	F740540035
		208 V	F740540035
		230 V	F740340031
	3	115 V	F740540015
		208 V	F740540015
		230 V	F740340011
Right	5	115 V	F740540045
		208 V	F740540045
		230 V	F740340041
	3	115 V	F740540025
		208 V	F740540025
		230 V	F740340021



- > **Enhanced shelf design:** integrated airways for fast and consistent air circulation
- > **Keep your fingers safe:** rounded metal rims at shelves



- > **Double your safety:** gaskets on inner doors come standard to reduce air leakage
- > **Easy access:** magnetic door-closing system



- > **External probes or back ups:** two access ports in the upper corner
- > **Keep the cold inside:** broad and flexible outer gaskets



- > **Personal storage preference:** 3 or 5 compartment/shelf versions for flexible sample storage
- > **Built for convenience:** stainless steel interior for easy cleaning
- > **Flexible monitoring:** use RS485 or BMS cable for alarm system



- > **Easy access:** quickly open the bottom-mounted air filter for easy cleaning and maintenance
- > **Simple solution:** no tools required to access the filter

Accessories Ordering information

Description	Order no.
Chart recorder (Type II), 100 – 120 V/50 – 60 Hz, powered by freezer	F652999001
Chart recorder (Type II), 208 – 230 V/50 – 60 Hz, powered by freezer	F652999002
Chart recorder pens (Type II), 3 pk	F652999004
Chart recorder paper (Type II), 0 to -100 °C, 60 pc.	F652999003
CO ₂ back-up system, 110 – 220 V/60 Hz, Innova® (“narrow” version)	U9043-0002
LN ₂ back-up system, 110 – 220 V/60 Hz, Innova® (“narrow” version)	U9044-0002

Freezer Rack Ordering Information

Rack type	Drawer height (rack dimensions D x W x H)	Order no.	Total racks per freezer	Boxes per rack	Total # of boxes per freezer
*Drawer, stainless steel, 3-shelf	2 in or 53 mm (563 x 140 x 449 mm)	6001072210	18	32	576
	2.5 in or 64 mm (563 x 140 x 412 mm)	6001072910	18	24	432
	3 in or 76 mm (563 x 140 x 414 mm)	6001072310	18	20	360
	4 in or 102 mm (563 x 140 x 431 mm)	6001072410	18	16	288
	5 in or 127 mm (563 x 140 x 414 mm)	6001072510	18	12	216
*Side access, stainless steel, 3-shelf	2 in or 53 mm (569 x 139 x 444 mm)	6001071210	18	32	576
	2.5 in or 64 mm (569 x 139 x 406 mm)	6001071910	18	24	432
	3 in or 76 mm (569 x 139 x 412 mm)	6001071310	18	20	360
	4 in or 102 mm (569 x 139 x 444 mm)	6001071410	18	16	288
	5 in or 127 mm (569 x 139 x 414 mm)	6001071510	18	12	216
	DWP (549 x 139 x 444 mm)	6001071110	18	48	864
**Drawer, stainless steel, 5-shelf, shelves 1 – 4	2 in or 53 mm (563 x 140 x 231 mm)	6001022210	24	16	384 (528)
	2.5 in or 64 mm (563 x 140 x 204 mm)	6001022910	24	12	288 (408)
	3 in or 76 mm (563 x 140 x 166 mm)	6001022310	24	8	192 (288)
	4 in or 102 mm (563 x 140 x 216 mm)	6001022410	24	8	192 (264)
**Side access, stainless steel, 5-shelf, shelves 1 – 4	2 in or 53 mm (569 x 139 x 230 mm)	6001021210	24	16	384 (528)
	2.5 in or 64 mm (569 x 139 x 205 mm)	6001021910	24	12	288 (408)
	3 in or 76 mm (569 x 139 x 167 mm)	6001021310	24	8	192 (288)
	4 in or 102 mm (569 x 139 x 230 mm)	6001021410	24	8	192 (264)
	DWP (549 x 139 x 224 mm)	6001021110	24	24	576 (792)
*Drawer, stainless steel, 5-shelf, shelf 5	2 in or 53 mm (563 x 140 x 346 mm)	6001082210	6	24	144 (528)
	2.5 in or 64 mm (563 x 140 x 344 mm)	6001082910	6	20	120 (408)
	3 in or 76 mm (563 x 140 x 331 mm)	6001082310	6	16	96 (288)
	4 in or 102 mm (563 x 140 x 324 mm)	6001082410	6	12	72 (264)
	5 in or 127 mm (563 x 140 x 276 mm)	6001082510	6	8	48 (48)
*Side access, stainless steel, 5-shelf, shelf 5	2 in or 53 mm (569 x 139 x 343 mm)	6001081210	6	24	144 (528)
	2.5 in or 64 mm (569 x 139 x 339 mm)	6001081910	6	20	120 (408)
	3 in or 76 mm (569 x 139 x 330 mm)	6001081310	6	16	96 (288)
	4 in or 102 mm (569 x 139 x 343 mm)	6001081410	6	12	72 (264)
	5 in or 127 mm (569 x 139 x 277 mm)	6001081510	6	8	48 (48)
	DWP (549 x 139 x 343 mm)	6001081110	6	36	216 (792)

***MAX racks for maximum capacity.**

****Compatible with Premium/CryoCube® F570 racks.**

The racks from Innova U360, U535, U725, and U725G are compatible with the CryoCube F740 series (3 compartment). Up to 6 racks per compartment/shelf do fit. For 2 in or 53 mm freezer boxes, 504 boxes can be stored by using the Innova-line compatible racks. For maximum capacity (576 boxes), we recommend the MAX racks (not all backwards compatible to Innova ULT freezers).

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