

New Eppendorf Freezers –
Sample security meets the latest in
energy efficiency



Stay Cool

CryoCube® ULT Freezers: Efficiency has a new name

»You can trust CryoCube® ULT Freezers with your most valuable samples.«

The complete storage solution

CryoCube ultra-low temperature freezers combine maximum sample security with improved functionality. New advancements decrease power consumption and make CryoCube freezers more comfortable to use. Eppendorf quality means years of trouble-free operation and dependable support.

Convenience

- > Quick door opening and improved temperature uniformity with new automatic vent port located within the user interface
- > Reduced energy consumption with high-efficiency fan, compressor, and condenser

Comfort

- > Easy opening with new ergonomic handle that requires less force

Sample security

- > Easy access to samples with new magnetic closures on inner doors



New automatic vent port



New magnetic closures



New handle design

CryoCube® F570 & FC660

Uncompromising quality

To protect your precious samples, CryoCube freezers are built with reliability in mind. Constructed from premium components, they ensure consistent performance and preservation year after year.



Reduce your carbon footprint

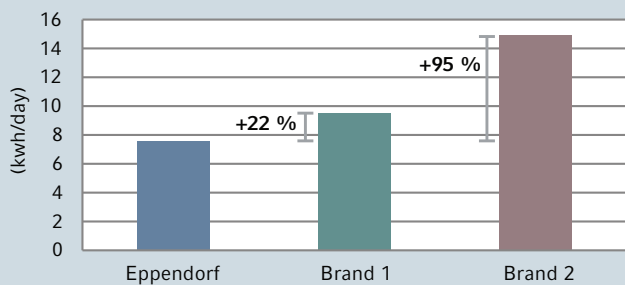
The CryoCube F570h and FC660h (high energy efficiency models) further improve energy efficiency by up to 25 %, compared to the F570 and FC660. They combine all the enhanced technology of the F570 and the FC660 with additional vacuum insulation coverage.

CryoCube® F570h & FC660h

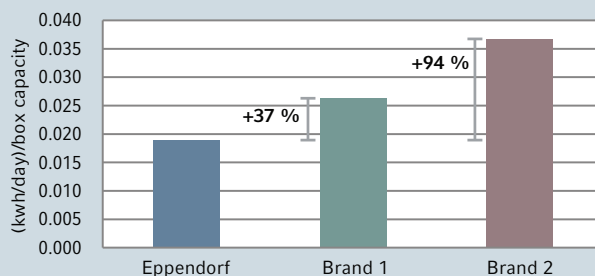


Performance tests conducted by Eppendorf in July 2014 using CryoCube F570h freezers and competitor models of comparable size, refrigerant (hydrocarbon), and capacity. All tests were performed under the same conditions at -80 °C in ambient temperature.

Power Consumption



Power Consumption by Capacity



CryoCube® Freezers*

Style			Upright	Upright	Chest	Chest	
Model			F570	F570h	FC660	FC660h	
Order No.	120 V, 60 Hz †		F570200005	F570220005	—	—	
	208 - 230 V, 60 Hz‡		F570400005	—	F660400005	F660420005	
	230 V, 50 Hz‡		F570300001	F570320001	F660300001	F660320001	
Power	Mains/power supply (A)	115 V, 60 Hz	16.5	16.5	—	—	
		208 - 230 V, 60 Hz	6.5	—	8.0	8.0	
		230 V, 50 Hz	7.0	7.0	6.0	6.0	
	kWh per day ¹	115 V, 60 Hz	12.0	9.4	—	—	
		208 - 230 V, 60 Hz	11.5	—	10.9	9.5	
		230 V, 50 Hz	10.5	7.6	10.6	8.1	
Capacity	Overall		570 L	570 L	660 L	660 L	
	Compartments		5	5	—	—	
	Racks per shelf		5	5	—	—	
	Racks per freezer		25	25	40	40	
	Box capacity per rack	2 in (50 mm) box (H)		16	16	13	13
		3 in (75 mm) box (H)		12	12	9	9
		4 in (100 mm) box (H)		8	8	6	6
	Box capacity per freezer	2 in (50 mm) box (H)		400	400	520	520
		3 in (75 mm) box (H)		300	300	360	360
		4 in (100 mm) box (H)		200	200	240	240
	Sample capacity per freezer	2 in (50 mm) box (H)		40,000	40,000	52,000	52,000
		3 in (75 mm) box (H)		30,000	30,000	36,000	36,000
		4 in (100 mm) box (H)		20,000	20,000	24,000	24,000
Performance	Pull down to -85 °C (Hours) ²	115 V, 60 Hz	4.7	4.9	—	—	
		208 - 230 V, 60 Hz	4.7	—	4.8	4.7	
		230 V, 50 Hz	5.1	4.3	4.4	3.7	
	Noise level (dB)	115 V, 60 Hz	59.7	58.8	—	—	
		208 - 230 V, 60 Hz	58.8	—	58.5	60.1	
		230 V, 50 Hz	59.5	59.1	58.9	58.3	
	Heat output (Watts)	115 V, 60 Hz	500	392	—	—	
		208 - 230 V, 60 Hz	479	—	454	396	
		230 V, 50 Hz	438	316	440	338	
Refrigerant	60 Hz models		404A/508B	404A/508B	404A/508B	404A/508B	
	50 Hz models		404A/508B	R290/R170	404A/508B	R290/R170	
Dimensions ³	External	Height (cm)	194.0	194.0	109.0	109.0	
		Width (cm)	102.5	102.5	207.0	207.0	
		Depth (cm)	85.2	85.2	84.5	84.5	
	Internal	Height (cm)	126.5	126.5	76.0	76.0	
		Width (cm)	76.5	76.5	147.0	147.0	
		Depth (cm)	57.5	57.5	59.0	59.0	
Weight	Net weight (Kg)		270	296	280	304	
	Shipping weight (Kg)		315	341	328	352	

* Specifications subject to change.

† USA (NEMA) regional plug.

‡ Shuko & UK plug. Last digit is country dependent. For Australia, change 1 to 3; for China, change 1 to 4; for Argentina change 1 to 8; for Brazil change 1 to 9.

¹ Empty freezer with shelves fitted (upright freezers only), set point -80 °C, 21 – 23 °C ambient conditions.

² Empty freezer with shelves fitted (upright freezers only), pull down from 21 – 23 °C ambient conditions.

³ Optional CO₂/LN₂ back-up systems add 8.65 cm (3.4 in) to height; to allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to depth of chest freezers. Open doors on upright freezers add up to 150 mm.