eppendorf



DOMINIQUE DUTSCHER SAS

Mid-Sized Minus 80

Need an all-purpose storage solution?
CryoCube® F570 series ULT Freezers

Keep it Safe, Stable, and Sorted

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How often do you open your ULT freezer door every day? For how long? What are the crucial factors for maintaining a steady -80 °C? It's best practice to always open and close your freezer as quickly as possible when accessing samples. However, locating and removing the correct sample can take time. The more time it takes, the more the temperature of your frozen samples increases as they are exposed to the warm environment. The efficient and reliable compressor systems of CryoCube F570 series ULT freezers ensure sample protection by guaranteeing fast recovery and pull-down back to -80 °C.

> Space for up to 40,000 vessels (1.5 mL) for your daily sample storage, combined with efficient pull-down and recovery times
> Hydrocarbon cooling based on almost 20 years of experience in R&D, production, logistics, and service in the field
> Technical data based on external test house evaluation for independent validation

User-friendly

> Easy-to-use interface at eye-level for fast and convenient adjustments
> Automatic 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
> Flexible shelf positions for customizable setup

Need a reliable storage partner?

> Up to 400 boxes, organized in 25 racks for easy sample retrieval
> Heavy duty shelves for loads up to 65 kg (143.3 lbs)
> To customize your rack selections, please check the rack configuration tool at: **https://econfig.nenies.com/**
> Stainless steel chamber for easy cleaning
> Robust, powder-coated outer housing

Keep your samples safe

> Short pull-down times to -80°C and fast door opening recovery for safe return to -80°C
> Efficient and reliable 2-stage compressor system
> Internal temperature probe located in middle compartment for reliable measurement
> Long warm-up times for increased sample safety with 130 mm walls containing polyurethane foam and vacuum insulation panels*

*CryoCube F570h & F570hw







CryoCube® F570 Series



Model	CryoCube F570n	CryoCube F570h	CryoCube F570hw*
LCD with softkey inputs	■	■	■
Access code	■	■	■
Hydrocarbon cooling liquids	■	■	■
Vacuum insulation panels	–	■	■
Air-cooled	■	■	–
Water-cooled	–	–	■

*Only 230 V version available

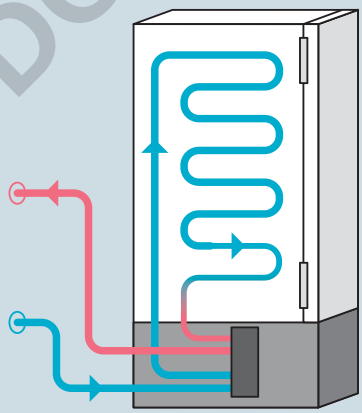


PhysioCare concept

Ergonomics – comfort for you

> Convenient door handle based on Eppendorf PhysioCare Concept® for easy opening and closing of outer door
> Automatic vent port for fast entry
> Display with all relevant information at eye level
> Connect the freezer by using the VisioNize® box and remotely monitor freezer performance with VisioNize Lab Suite

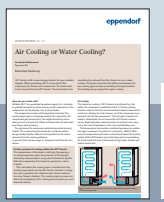
More information:
www.eppendorf.com/visionize



Air conditioning at the limit? Go for water-cooling

You can improve the conditions and comfort in your lab while saving energy by installing a water-cooled Eppendorf freezer. Many ULT freezers use the air in the laboratory to extract heat energy from the freezer's heat exchanger. Another option is to use a water-cooled ULT freezer connected to a facility's recirculating water system. A constant stream of water removes the heat from the exchanger, rather than the ambient air in the lab.

Learn more in White Paper 53:
Air-Cooling or Water-Cooling?



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Typical Performance Characteristics

Model	CryoCube F570h	CryoCube F570hw	CryoCube F570n
Insulation	Vacuum insulation paneling / polyurethane foam	Vacuum insulation paneling / polyurethane foam	Polyurethane foam
Wall Thickness	Type C	Type C	Type A
Capacity	570 L / 20.1 ft³	570 L / 20.1 ft³	570 L / 20.1 ft³
No. of internal doors	5	5	5
No. of compartments	5	5	5
Max. racks per freezer	25	25	25
Box capacity per rack			
53 mm (2 in) tall boxes	16	16	16
Sample capacity			
53 mm (2 in)	40,000	40,000	40,000
Box capacity per freezer			
53 mm (2 in) tall boxes	400	400	400
76 mm (3 in) tall boxes	200	200	200
102 mm (4 in) tall boxes	200	200	200
Dimensions (W × D × H)[1)2)3)]	110.3 × 89.8 × 195 cm / 43.4 × 35.4 × 76.8 in	110.3 × 89.8 × 195 cm / 43.4 × 35.4 × 76.8 in	110.3 × 89.8 × 195 cm / 43.4 × 35.4 × 76.8 in
Dimensions internal (W × D × H)	76.5 × 57.5 × 126.5 cm / 30.1 × 22.6 × 49.8 in	76.5 × 57.5 × 126.5 cm / 30.1 × 22.6 × 49.8 in	76.5 × 57.5 × 126.5 cm / 30.1 × 22.6 × 49.8 in
Weight w/o accessories	341 kg / 752 lbs	341 kg / 752 lbs	281 kg / 619 lbs
Shipping weight	388 kg / 855 lbs	388 kg / 855 lbs	328 kg / 723 lbs
Pull-down time to -80 °C (230 V / 115 V)[4)]	4 h 27 min / 3 h 15 min	4 h 20 min / –	3 h 53 min / 3 h 34 min
Recovery time to -80 °C (230 V / 115 V)[5)]	27 min / 23 min	31 min / –	29 min / 28 min
Noise level[7)]	57.2 dB	59.0 dBA	57.6 dB
Heat output (230 V)	310 W (1,058 BTU/h)	332 W (1,133 BTU/h)	347 W (1,183 BTU/h)
Power consumption Eppendorf freezer[6)]	230 V: 7.4 KWh/day (0.37 KWh/ft³) 208 V: – 115 V: 7.1 KWh/day (0.35 KWh/ft³)	230 V: 8.0 KWh/day (0.40 KWh/ft³) 208 V: – 115 V: –	230 V: 8.3 KWh/day (0.41 KWh/ft³) 208 V: 8.5 KWh/day (0.42 KWh/ft³) 115 V: 8.8 KWh/day (0.44 KWh/ft³)
Interior	Stainless steel	Stainless steel	Stainless steel
Password protection of setpoints	yes	yes	yes
Extras	Automatic vent port	Automatic vent port, water-cooled	Automatic vent port
Cooling liquid	R290 / R170	R290 / R170	R290 / R170

[1)] Optional CO_2/LN_2 backup systems add 8.65 cm/3.5 in to height.
[2)] To allow for handling of door handle, add 80 mm to width of freezers.
[3)] Door open adds up to 15 cm to width.
[4)] Empty freezer with shelves fitted, pull down from 20 °C ambient conditions to -80 °C.
[5)] Empty freezer with shelves fitted, set point -80 °C, recovery back to -80 °C after 60 s opening.
[6)] Empty freezer with shelves fitted, set point -80 °C, 20 °C ambient conditions.
[7)] Measured average noise value at -80°C set temperature at 2m clear distance to front.

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Our Part for Sustainability

> 100 % renewable energy in freezer facility
> 5 compartments with 5 insulated inner doors for safe and reliable sample storage
> 130 mm thick walls with vacuum insulation panels for long warm-up times
> Usage of hydrocarbon cooling liquids in Eppendorf ULT freezers since 2008
> ACT® certification by My Green Lab®
> Long lifespan from Eppendorf ULT freezers that you can rely on
> Almost 20 years of experience at Eppendorf with green cooling liquids for -80 °C applications in R&D, production, logistics, and service in the field
> Packaging material with at least 69% share of recycled origin
> Packaging is 100% recyclable

epGreen

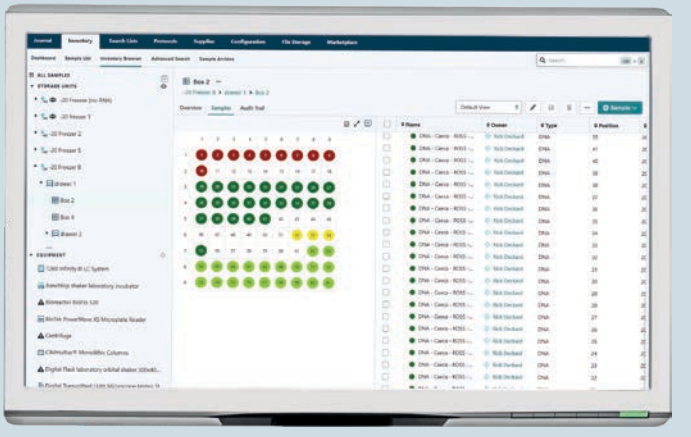
ACT.
The Environmental Impact Factor Label

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Keep track of your samples with SciSure
SciSure LIMS is a sample management software provided by SciSure. The tool organizes any item in the laboratory inventory, including samples, reagents, consumables. Manage any type of equipment and make a virtual copy of any storarage units, including freezers and refrigerators. The platform is flexible and fully configurable to work in your laboratory. Additionally, it's fully integrated with SciSure ELN.

> Manage any type of samples, reagents, consumables or equipment
> Intuitive user interface includes visual inventory, detailed filters and custom views
> Barcode functionality and integration with label printers
> High level of customizability for data entry and storage structure
> Various options for import and export
> 21 CFR part 11 and ISO 27001:2022 certifications for security and compliance
> Restrict the access according to your laboratory rules with customizable roles and permissions
> Benefit from add-on open ecosystem from us and our partners

Start a free 30-day trial!
https://www.scisure.com/sign-up-for-a-free-trial



Freezer Ordering information

Model		Door Handle	Inner Compartments	Voltage*	Order No.
CryoCube® F570n		Left	5	115 V	F571200035
				208 V	F571400035
				230 V	F571300031
CryoCube® F570h		Left	5	115 V	F571240035
				230 V	F571340031
CryoCube® F570hw Water-cooled		Left	5	230 V	F571340131

*230 V are 50–60 Hz with European (Schuko) plug, further plug versions available

Accessories Ordering Information

Description	Order no.
Freezer storage boxes	Please inquire online
Metal freezer racks, stainless steel, aluminum, drawer, & side-access available	Please inquire online
CO_2 and LN_2 back-up systems	Please inquire online
VisioNize® Lab Suite	Please inquire online
VisioNize® sense	Please inquire online
VisioNize® box, with mains/power adapter[1]	1006 000 009
VisioNize® box adapter for freezers, CryoCube® and Innova® models	1006 075 009
VisioNize® box cable, Ethernet, length 5 m	1006 073 006
RS-485 interface kit for Premium/HEF®/CryoCube® F570 series, except Innova® U360	F652 999 007

[1] Important note: Depending on your country, VisioNize and the VisioNize services may not be available. You can check the Eppendorf eShop or contact your Eppendorf Sales representative for details.

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Your local distributor: www.eppendorf.com/contact
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www.eppendorf.com/freezers

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