

# Sample Handling



Eppendorf High-Efficiency ULT Freezers

Model	HEF® U410	CryoCube® F570h	CryoCube® F570hw
Page(s)	276	276	276
Insulation	Vacuum insulation paneling/polyurethane foam	Vacuum insulation paneling/polyurethane foam	Vacuum insulation paneling/polyurethane foam
Capacity	410 L	570 L	570 L
Number of internal doors	5	5	5
Number of shelves	5	5	5
Max. racks per freezer	15	25	25
Box capacity per rack			
5 cm (2 in) tall boxes	16	16	16
7.5 cm (3 in) tall boxes	12	12	12
10 cm (4 in) tall boxes	8	8	8
Box capacity per freezer			
5 cm (2 in) tall boxes	240	400	400
7.5 cm (3 in) tall boxes	180	300	300
10 cm (4 in) tall boxes	120	200	200
Sample capacity			
5 cm (2 in) tall boxes	24,000	40,000	40,000
7.5 cm (3 in) tall boxes	18,000	30,000	30,000
10 cm (4 in) tall boxes	12,000	20,000	20,000
Dimensions (W x D x H) <sup>3 4 5</sup>	80 x 85.2 x 193.0 cm	102.5 x 85.2 x 194 cm	102.5 x 85.2 x 194.0 cm
Dimensions internal (W x D x H)	55 x 57.5 x 126.5 cm	76.5 x 57.5 x 126.5 cm	76.5 x 57.5 x 126.5 cm
Weight w/o accessories	262 kg	296 kg	296 kg
Shipping weight	302 kg	341 kg	341 kg
Pull-down time to -85 °C <sup>2</sup>	4.66 h	4.33 h	4.10 h
Noise level	53 dBA	59 dBA	56.0 dBA
Heat output	505 W	316 W	325 W
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>1</sup>	8.4 kWh/day	7.6 kWh/day	7.8 kWh/day
Max. power consumption per 5 cm box <sup>1</sup>	35 Wh/day	19 Wh/day	19.5 Wh/day
Interior	Stainless steel	Stainless steel	Stainless steel
Password protection of setpoints	yes	yes	yes
Extras	-	Automatic vent port	Automatic vent port, water-cooled

<sup>1</sup> Empty freezer with shelves fitted, upright freezers only, set point -80 °C, 21 – 23 °C ambient conditions. <sup>2</sup> Empty freezer with shelves fitted, upright freezers only, pull down from 21 – 23 °C ambient conditions. <sup>3</sup> Optional CO<sub>2</sub>/LN<sub>2</sub> backup systems add 8.65 cm/3.5 in to height. <sup>4</sup> To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to the depth <sup>5</sup> Door open adds up to 15 cm.



Eppendorf High-Efficiency ULT Freezers

Model	CryoCube® FC660h	Innova® U725-G air-cooled	Innova® U725-G water-cooled
Page(s)	277	276	276
Insulation	Vacuum insulation paneling/polyurethane foam	Vacuum insulation paneling/polyurethane foam	Vacuum insulation paneling/polyurethane foam
Capacity	660 L	725 L	725 L
Number of internal doors	N/A	3	3
Number of shelves	40	3	3
Max. racks per freezer	13	18	18
Box capacity per rack			
5 cm (2 in) tall boxes	9	28	28
7.5 cm (3 in) tall boxes	6	20	20
10 cm (4 in) tall boxes		12	12
Box capacity per freezer			
5 cm (2 in) tall boxes	520	504	504
7.5 cm (3 in) tall boxes	360	360	360
10 cm (4 in) tall boxes	240	216	216
Sample capacity			
5 cm (2 in) tall boxes	52,000	50,400	50,400
7.5 cm (3 in) tall boxes	36,000	36,000	36,000
10 cm (4 in) tall boxes	24,000	21,600	21,600
Dimensions (W x D x H)	207 x 84 x 107.5 cm	102.5 x 86.7 x 195 cm	102.5 x 86.7 x 195 cm
Dimensions internal (W x D x H)	147 x 59 x 76 cm	86.5 x 61.5 x 136.5 cm	86.5 x 61.5 x 136.5 cm
Weight w/o accessories	304 kg	315 kg	317 kg
Shipping weight	352 kg	365 kg	365 kg
Pull-down time to -85 °C <sup>2</sup>	3.66 h	4.8 h	4.8 h
Noise level	58.3 dBA	57.2 dBA	57.3 dBA
Heat output	328 W	502 W	469 W
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>1</sup>	8.1 kWh/day	12.2 kWh/day	11.3 kWh/day
Max. power consumption per 5 cm box <sup>1</sup>	15.6 Wh/day	24.2 Wh/day	22.4 Wh/day
Interior	Stainless steel	Stainless steel	Stainless steel
Password protection of setpoints	yes	yes	yes
Extras	30 mm thick inner lids for temp uniformity	30 mm thick inner lids for temp uniformity	30 mm thick inner lids for temp uniformity



Eppendorf Innova® ULT Freezers

Model	Innova® U101	Innova® U360	Innova® U535
Page(s)	277	277	277
Insulation	Vacuum insulation paneling/ polyurethane foam	Vacuum insulation paneling/ polyurethane foam	Vacuum insulation paneling/ polyurethane foam
Capacity	101 L	360 L	535 L
Number of internal doors	2	3	3
Number of shelves	2	3	3
Max. racks per freezer	6	9	12
Box capacity per rack			
5 cm (2 in) tall boxes	10	28	28
7.5 cm (3 in) tall boxes	6	20	20
10 cm (4 in) tall boxes	4	12	12
Box capacity per freezer			
5 cm (2 in) tall boxes	60	252	336
7.5 cm (3 in) tall boxes	36	180	240
10 cm (4 in) tall boxes	24	108	144
Sample capacity			
5 cm (2 in) tall boxes	6,000	25,200	33,600
7.5 cm (3 in) tall boxes	3,600	18,000	24,000
10 cm (4 in) tall boxes	2,400	10,800	14,400
Dimensions (W x D x H) <sup>13 14 15</sup>	90 x 56.6 x 83 cm	67 x 86.7 x 195 cm	80 x 86.7 x 195 cm
Dimensions internal (W x D x H)	48 x 33 x 64 cm	44 x 61.5 x 136.5 cm	64 x 61.5 x 136.5 cm
Weight w/o accessories	116 kg	230 kg	250 kg
Shipping weight	141 kg	240 kg	298 kg
Pull-down time to -85 °C <sup>2</sup>	3.7 h	5.6 h	5.9 h
Noise level	55 dBA	56 dBA	56 dBA
Heat output	310 W	590 W	720 W
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>1</sup>	7.4 kWh/day	10.7 kWh/day	13.2 kWh/day
Max. power consumption per 5 cm box <sup>1</sup>	123.3 Wh/day	42.5 Wh/day	39.3 Wh/day
Interior	Stainless steel	Stainless steel	Stainless steel
Password protection of setpoints	yes	yes	yes
Extras	Stackable, fits below bench	-	-

<sup>1</sup> Empty freezer with shelves fitted, upright freezers only, set point -80 °C, 21 – 23 °C ambient conditions. <sup>2</sup> Empty freezer with shelves fitted, upright freezers only, pull down from 21 – 23 °C ambient conditions. <sup>3</sup> Optional CO<sub>2</sub>/LN<sub>2</sub> backup systems add 8.65 cm/3.5 in to height. <sup>4</sup> To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to the depth <sup>5</sup> Door open adds up to 15 cm.



Eppendorf Innova® ULT Freezers

Model	Innova® U725	Innova® C585	Innova® C760
Page(s)	277	277	277
Insulation	Vacuum insulation paneling/ polyurethane foam	Vacuum insulation paneling/polyurethane foam	Vacuum insulation paneling/polyurethane foam
Capacity	725 L	585 L	760 L
Number of internal doors	3		
Number of shelves	3	N/A	N/A
Max. racks per freezer	18	32	44
Box capacity per rack			
5 cm (2 in) tall boxes	28	13	13
7.5 cm (3 in) tall boxes	20	9	9
10 cm (4 in) tall boxes	12	6	6
Box capacity per freezer			
5 cm (2 in) tall boxes	504	416	572
7.5 cm (3 in) tall boxes	360	288	396
10 cm (4 in) tall boxes	216	192	264
Sample capacity			
5 cm (2 in) tall boxes	50,400	41,600	57,200
7.5 cm (3 in) tall boxes	36,000	28,800	39,600
10 cm (4 in) tall boxes	21,600	19,200	26,400
Dimensions (W x D x H) <sup>13 14 15</sup>	102.5 x 86.7 x 195 cm	169 x 78.5 x 109.2 cm	205 x 78.5 x 109.2 cm
Dimensions internal (W x D x H)	86.5 x 61.5 x 136.5 cm	120 x 62.5 x 78 cm	156 x 62.5 x 78 cm
Weight w/o accessories	315 kg	240 kg	285 kg
Shipping weight	363 kg	298 kg	333 kg
Pull-down time to -85 °C <sup>2</sup>	5.9 h	4.5 h	5.8 h
Noise level	59 dBA	56 dBA	58 dBA
Heat output	714 W	700 W	750 W
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>1</sup>	17.1 kWh/day	13.6 kWh/day	16 kWh/day
Max. power consumption per 5 cm box <sup>1</sup>	33.9 Wh/day	32.7 Wh/day	28 Wh/day
Interior	Stainless steel	Stainless steel	Stainless steel
Password protection of setpoints	yes	yes	yes
Extras	-	30 mm thick inner lids for temp uniformity	30 mm thick inner lids for temp uniformity



Eppendorf ULT Freezers

Model	Premium U410
Page(s)	277
Insulation	Polyurethane foam
Capacity	410 L
Number of internal doors	5
Number of shelves	5
Max. racks per freezer	15
Box capacity per rack	
5 cm (2 in) tall boxes	16
7.5 cm (3 in) tall boxes	12
10 cm (4 in) tall boxes	8
Box capacity per freezer	
5 cm (2 in) tall boxes	240
7.5 cm (3 in) tall boxes	180
10 cm (4 in) tall boxes	120
Sample capacity	
5 cm (2 in) tall boxes	24,000
7.5 cm (3 in) tall boxes	18,000
10 cm (4 in) tall boxes	12,000
Dimensions (W x D x H) <sup>13</sup> <sup>14</sup> <sup>15</sup>	80 x 85.2 x 193 cm
Dimensions internal (W x D x H)	55 x 57.5 x 126.5 cm
Weight w/o accessories	235 kg
Shipping weight	283 kg
Pull-down time to -85 °C <sup>2</sup>	5.6 h
Noise level	58.8 dBA
Heat output	448 W
Power supply	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>11</sup>	10.8 kWh/day
Max. power consumption per 5 cm box <sup>11</sup>	45 Wh/day
Interior	Stainless steel
Password protection of setpoints	yes
Extras	-

<sup>11</sup> Empty freezer with shelves fitted, upright freezers only, set point -80 °C, 21 – 23 °C ambient conditions. <sup>12</sup> Empty freezer with shelves fitted, upright freezers only, pull down from 21 – 23 °C ambient conditions. <sup>13</sup> Optional CO<sub>2</sub>/LN<sub>2</sub> backup systems add 8.65 cm/3.5 in to height. <sup>14</sup> To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to the depth <sup>15</sup> Door open adds up to 15 cm.

i For more information go to [www.eppendorf.com](http://www.eppendorf.com)

Technical specifications subject to change.



Eppendorf ULT Freezers

Model	CryoCube® F570
Page(s)	277
Insulation	Polyurethane foam
Capacity	570 L
Number of internal doors	5
Number of shelves	5
Max. racks per freezer	25
Box capacity per rack	
5 cm (2 in) tall boxes	16
7.5 cm (3 in) tall boxes	12
10 cm (4 in) tall boxes	8
Box capacity per freezer	
5 cm (2 in) tall boxes	400
7.5 cm (3 in) tall boxes	300
10 cm (4 in) tall boxes	200
Sample capacity	
5 cm (2 in) tall boxes	40,000
7.5 cm (3 in) tall boxes	30,000
10 cm (4 in) tall boxes	20,000
Dimensions (W x D x H) <sup>13</sup> <sup>14</sup> <sup>15</sup>	102.5 x 85.2 x 194 cm
Dimensions internal (W x D x H)	76.5 x 57.5 x 126.5 cm
Weight w/o accessories	270 kg
Shipping weight	315 kg
Pull-down time to -85 °C <sup>2</sup>	5.10 h
Noise level	59.5 dBA
Heat output	438 W
Power supply	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>11</sup>	10.5 kWh/day
Max. power consumption per 5 cm box <sup>11</sup>	26.3 Wh/day
Interior	Stainless steel
Password protection of setpoints	yes
Extras	Automatic vent port



Model	CryoCube® FC660
Page(s)	277
Insulation	Polyurethane foam
Capacity	660 L
Number of internal doors	
Number of shelves	
Max. racks per freezer	N/A
Box capacity per rack	40
5 cm (2 in) tall boxes	
7.5 cm (3 in) tall boxes	13
10 cm (4 in) tall boxes	9
Box capacity per freezer	
5 cm (2 in) tall boxes	520
7.5 cm (3 in) tall boxes	360
10 cm (4 in) tall boxes	240
Sample capacity	
5 cm (2 in) tall boxes	52,000
7.5 cm (3 in) tall boxes	36,000
10 cm (4 in) tall boxes	24,000
Dimensions (W x D x H) <sup>13</sup> <sup>14</sup> <sup>15</sup>	207 x 84 x 107.5 cm
Dimensions internal (W x D x H)	147 x 59 x 76 cm
Weight w/o accessories	280 kg
Shipping weight	328 kg
Pull-down time to -85 °C <sup>2</sup>	4.4 h
Noise level	58.9 dBA
Heat output	440 W
Power supply	230 V, 50 Hz
Power consumption Eppendorf freezer <sup>11</sup>	10.6 kWh/day
Max. power consumption per 5 cm box <sup>11</sup>	20.4 Wh/day
Interior	Stainless steel
Password protection of setpoints	yes
Extras	30 mm thick inner lids for temp uniformity

**epServices**  
for premium performance

On page 436 you will find detailed information on services for these products!

i For more information go to [www.eppendorf.com](http://www.eppendorf.com)

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# Eppendorf High-Efficiency ULT Freezers

## Description

For Eppendorf, being green is not a trend, it's in our nature. Since 1945 we have recognized our place as a global citizen and began our green initiative by building high-quality, long-lasting products. Today, we continue to set new standards with our high-efficiency freezers, among the most energy-efficient ULT freezers on the

market. Eppendorf High-Efficiency ULT Freezers minimize operating costs while providing superior protection for your critical samples. They reduce energy consumption by up to 50 % when compared to other models. This group of freezers provides all of the features of the other freezer models.



1. Premium seals for optimal temperature uniformity and sample safety
2. Ergonomic door handle requires less force and provides easier access<sup>1)</sup>
3. New high-efficient fan, compressor, and condensor for energy saving
4. New automatic<sup>1)</sup> vent port on front door improves energy consumption and enables fast sample access
5. Vacuum insulation panels combined with traditional polyurethane foam form a thick layer of insulation for exceptional energy efficiency
6. Lockable main switch to prevent switch-offs by accident
7. Location for chart recorder for data documentation

► <sup>1)</sup>: limited to upright Eppendorf CryoCubes

## Less Power Consumption. Smaller Carbon Footprint. Save using Eppendorf Freezers.

	Capacity	Power consumption Eppendorf freezer	Power consumption competitor's freezer	Power saving with Eppendorf freezer
Innova® U725-G, 50 Hz <sup>1)</sup>	725 L	12.2 kWh/day	17.0 kWh/day	4.8 kWh/day
Premium U410, 50 Hz	410 L	10.8 kWh/day	15.3 kWh/day	4.5 kWh/day
HEF® U410, 50 Hz	410 L	8.4 kWh/day	15.3 kWh/day	6.7 kWh/day
CryoCube® F570, 50 Hz	570 L	10.5 kWh/day	16.9 kWh/day	6.4 kWh/day
CryoCube® F570h, 50 Hz	570 L	7.6 kWh/day	14.9 kWh/day	7.3 kWh/day

<sup>1)</sup> Hydrocarbon based models<sup>2)</sup> According to the European Commission eurostat.<sup>3)</sup> Electricity sources in Europe emit 352 g CO<sub>2</sub> per kWh, according to the International Energy Agency, IEA.



New door handle design based on Eppendorf PhysioCare Concept® to enable easy access<sup>1)</sup>

► <sup>1)</sup>: limited to upright Eppendorf CryoCubes

## Environmentally friendly and energy efficient

Ultra-low temperature freezers traditionally consume a large amount of energy, as they maintain extremely low temperatures 24/7. With today's high energy costs and focus on the environment, energy conservation has become even more important in the lab. Eco-friendly Eppendorf ULT freezers are designed to help you save energy without compromising sample security.

- > A highly efficient compressor control system reduces cycling times to lower energy consumption and increase freezer longevity
- > Low noise levels and heat output to benefit your work environment
- > High-quality insulation materials and gaskets provide ultimate temperature control and optimized energy efficiency
- > Environmentally safe, HCFC-free and CFC-free refrigerants minimize greenhouse gases
- > Biodegradable and commercially-available, high-performance, synthetic compressor lubricants prevent "oil-logging"
- > A single, quiet, condenser fan reduces energy consumption; compared to many freezers that require two
- > Built with 95 – 98 % recyclable materials (by weight)
- > Meets WEEE directives for disposal

## Offset with Eppendorf freezers

The standard rule of thumb is you produce 352 g of carbon dioxide with each kilowatt hour of electricity you use. In other words, for every kilowatt hour of electricity you DO NOT use, you save 352 g of carbon dioxide from entering the atmosphere. On average, by selecting an Eppendorf freezer you can save up to 9.4 metric tons of CO<sub>2</sub> from entering the atmosphere over the lifetime of the unit. This would be equivalent to 241 tree seedlings planted and grown for 10 years. The average vehicle traveling 15,000 km each year consuming 5.5 L gasoline per 100 km emits more than 2,310 kg of carbon dioxide per year. Not only do you help save the environment, but also substantially reduce your operating costs. To see how much you can save, see the worksheet below.

Average cost per kWh <sup>2)</sup>	Eppendorf energy savings over 10 years	Energy savings for every 25 units over 10 years	Reduction in CO <sub>2</sub> emission tons over 10 years <sup>3)</sup>
0.22 €	3,854.40 €	96,360.00 €	6.2 t
0.22 €	3,613.50 €	90,337.50 €	5.8 t
0.22 €	5,380.10 €	138,517.50 €	8.8 t
0.22 €	5,139.20 €	128,480.00 €	8.2 t
0.22 €	5,861.90 €	146,547.50 €	9.4 t

# Eppendorf Innova® ULT Freezers

## Description

When it comes to maximizing sample storage capacity, Eppendorf Innova ULT Freezers set the standard. They take advantage of ultra-efficient, ultra-compact vacuum insulation panels which are used in combination with traditional insulation to slim down the freezer wall

thickness from 130 mm to 80 mm. These models are ideal for labs short on space. Four models are offered: U101, U360, U535, and U725.



1. Inner doors in upright models are gasketed and insulated, creating three separate compartments to minimize cold air loss and direct sample access
2. Provides up to 30 % more storage capacity than freezers with traditional insulation
3. Innova U101 and U360 provide a convenient and space-saving solution when space is limited
4. Advanced lock and alarm features for improved sample safety
5. Special heated air vent with plunger to clear ice buildup and release vacuum formation providing immediate access to the freezer
6. Flat, frost resistant gaskets on outer door on all upright and chest models reduce cold air loss and allow for rapid temperature recovery
7. Built-in voltage stabilizer on U535, U725, C585, and C760 freezers provides extra sample safety
8. Quick pull-down and recovery times with reliable and efficient heavy duty compressors



Air vent port easy to access to enable fast re-opening of freezer



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



Up to 50,400 tubes can be stored in the Eppendorf Innova ULT freezer U725



The Eppendorf Innova ULT freezer U101: A personal sized upright freezer that packs all of the features of our full uprights into one small package



30 mm thick inner lids, constructed from molded insulation, help maintain temperature stability

For more information go to [www.eppendorf.com](http://www.eppendorf.com)

# Eppendorf ULT Freezers

## Description

Eppendorf ULT Freezers are known for their energy efficiency, reliability, and worry-free, long-term sample preservation. They provide many of the same features as our Innova ULT Freezers, but are conventionally insulated for a cost-effective alternative.

Polyurethane insulation combined with a highly efficient cooling system achieve and maintain ultra-low temperatures of -86 °C.



1. Polyurethane insulation for high performance and efficiency, reducing your energy bill and keeping your samples safe

2. Access port for TCA-3 alarm system for supervised sample storage

3. Classic interface for easy control of the important parameters

4. Automatic<sup>1)</sup> vent port or heated vent port for easy re-access to samples

5. Five interior compartments with insulated inner doors for superior sample protection

6. Heavy duty castors to easily move the freezer to a new position

► <sup>1)</sup>: limited to upright Eppendorf CryoCubes

For more information go to [www.eppendorf.com](http://www.eppendorf.com)



Quick release fixation of grid for easy access and cleaning



Automatic vent port on front door enables fast sample access\*



Stainless steel inner compartment for easy cleaning



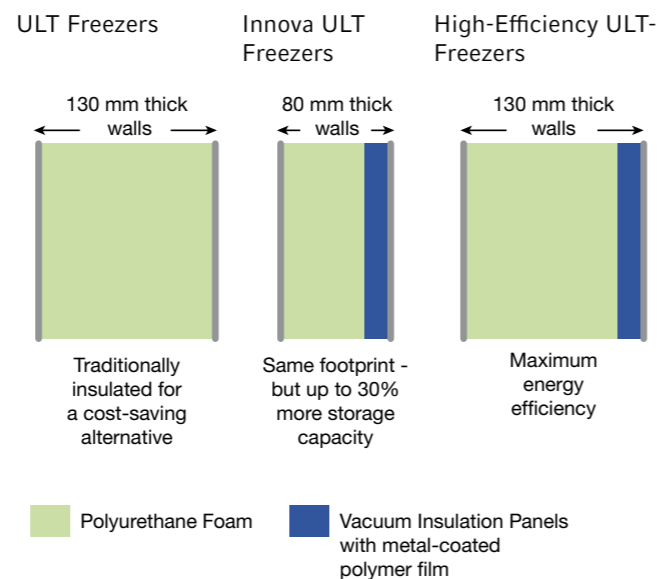
Two access ports allow CO<sub>2</sub>/LN<sub>2</sub> injection or addition of probes



New magnetic closures on inner doors for easy access to samples<sup>1)</sup>

► <sup>1)</sup>: limited to upright Eppendorf CryoCubes

## Eppendorf High-Efficiency ULT Freezers



### High-Efficiency ULT Freezers

Description	Order no.
<b>CryoCube® FC660h</b> , 660 L, 230 V/50 Hz	F660320001
<b>HEF® U410</b> , 410 L, 230 V/50 Hz	U9260-0008
<b>CryoCube® F570h</b> , 570 L, 230 V/50 Hz	F570320001
<b>CryoCube® F570hw</b> , 570 L, 230 V/50 Hz	F570320101
<b>Innova® U725-G</b> , 725 L, 230 V/50 Hz, Air-Cooled	U9440-0005
<b>Innova® U725-G</b> , 725 L, 230 V/50 Hz, Water-Cooled	U9440-0004
<b>Chest freezer rack: Innova® C585, C760, CryoCube® FC660/ FC660h</b>	
50 mm (2 in) tall box, 13 boxes per rack	K0641-1690
75 mm (3 in) tall box, 9 boxes per rack	K0641-1700
100 mm (4 in) tall box, 6 boxes per rack	K0641-1750
<b>Upright freezer rack: Innova® U360, U535, U725, U725-G</b>	
50 mm box (2 in) tall box, 28 boxes per rack	K0641-3000
75 mm (3 in) tall box, 20 boxes per rack	K0641-3001
100 mm (4 in) tall box, 12 boxes per rack	K0641-3002
<b>Upright freezer rack: U410, HEF U410, U700, F570, F570h</b>	
50 mm (2 in) tall box, 16 boxes per rack	K0641-1900
75 mm (3 in) tall box, 12 boxes per rack	K0641-1890
100 mm (4 in) tall box, 8 boxes per rack	K0641-1880
<b>CO<sub>2</sub> back-up system</b> , 230 V/50 Hz, Innova® and Green "G"	U9043-0004
<b>LN<sub>2</sub> back-up system</b> , 230 V/50 Hz, Innova® and Green "G"	U9044-0004
<b>CO<sub>2</sub> back-up system</b> , 230 V/50 Hz, CryoCube®, Premium, and HEF®	U9043-0008
<b>LN<sub>2</sub> back-up system</b> , 230 V/50 Hz, CryoCube®, Premium, and HEF®	U9044-0008

For more information go to [www.eppendorf.com](http://www.eppendorf.com)

## Eppendorf Innova® ULT Freezers

### Innova® ULT Freezers

Description	Order no.
<b>Innova® U101</b> , 101 L, 230 V/50 Hz	U9420-0001
<b>Innova® U360</b> , 360 L, 230 V/50 Hz	U9425-0001
<b>Innova® U535</b> , 535 L, 230 V/50 Hz	U9430-0001
<b>Innova® C585</b> , 585 L, 230 V/50 Hz	U9400-0001
<b>Innova® U725</b> , 725 L, 230 V/50 Hz	U9440-0001
<b>Innova® C760</b> , 760 L, 230 V/50 Hz	U9410-0001
<b>Upright freezer rack: Innova® U101</b>	
50 mm (2 in) tall box, 10 boxes per rack	K0641-3003
75 mm (3 in) tall box, 6 boxes per rack	K0641-3004
100 mm (4 in) tall box, 4 boxes per rack	K0641-3005
<b>Chest freezer rack: Innova® C585, C760, CryoCube® FC660/ FC660h</b>	
50 mm (2 in) tall box, 13 boxes per rack	K0641-1690
75 mm (3 in) tall box, 9 boxes per rack	K0641-1700
100 mm (4 in) tall box, 6 boxes per rack	K0641-1750
<b>Upright freezer rack: Innova® U360, U535, U725, U725-G</b>	
50 mm box (2 in) tall box, 28 boxes per rack	K0641-3000
75 mm (3 in) tall box, 20 boxes per rack	K0641-3001
100 mm (4 in) tall box, 12 boxes per rack	K0641-3002
<b>CO<sub>2</sub> back-up system</b> , 230 V/50 Hz, Innova® and Green "G"	U9043-0004
<b>LN<sub>2</sub> back-up system</b> , 230 V/50 Hz, Innova® and Green "G"	U9044-0004

## Eppendorf ULT Freezers

### ULT Upright Freezers

Description	Order no.
<b>CryoCube® FC660</b> , 660 L, 230 V/50 Hz	F660300001
<b>CryoCube® F570</b> , 570 L, 230 V/50 Hz	F570300001
<b>Premium U410</b> , 410 L, 230 V/50 Hz	U9260-0001
<b>Chest freezer rack: Innova® C585, C760, CryoCube® FC660/ FC660h</b>	
50 mm (2 in) tall box, 13 boxes per rack	K0641-1690
75 mm (3 in) tall box, 9 boxes per rack	K0641-1700
100 mm (4 in) tall box, 6 boxes per rack	K0641-1750
<b>Upright freezer rack: U410, HEF U410, U700, F570, F570h</b>	
50 mm (2 in) tall box, 16 boxes per rack	K0641-1900
75 mm (3 in) tall box, 12 boxes per rack	K0641-1890
100 mm (4 in) tall box, 8 boxes per rack	K0641-1880
<b>CO<sub>2</sub> back-up system</b> , 230 V/50 Hz, CryoCube®, Premium, and HEF®	U9043-0008
<b>LN<sub>2</sub> back-up system</b> , 230 V/50 Hz, CryoCube®, Premium, and HEF®	U9044-0008

Ordering information for other voltage options begins on page 478

## Freezer Racks

**Eppendorf TCA-3 Temperature Monitor**

- > Receive email, voicemail, and text alarms if the temperature exceeds desired levels for higher sample safety
- > Quick installation on any freezer regardless of manufacturer for flexible usage
- > View temperature data readings, graphs, and statistics from any web browser for flexible data access
- > Temperature range is from -100 °C to 100 °C

**Ordering information**

Description	Order no.
<b>Eppendorf TCA-3 Temperature Monitor</b>	
230 V/50 Hz	P0625-2050

**Chart Recorder**

- > Includes chart recorder, RTD probe, keys, chart recorder paper, and chart recorder pens
- > Will continuously monitor and record freezer temperature for data documentation
- > Front mounted to your freezer for easy access and can be fitted to all freezer models
- > Battery powered: Will provide a minimum of eighteen months of operation
- > Selectable temperature range (0 to -50 °C and -50 to -100 °C) and rotation speed
- > User configurable built in high and low temperature alarms
- > Can be factory installed with your freezer order at no additional charge or retrofitted on location

**Ordering information**

Description	Order no.
<b>Chart recorder</b>	P0625-2100
<b>Chart recorder pens, 3 pk</b>	K0660-0051
<b>Chart recorder paper, -50 to -100 °C</b>	P0625-2110
<b>Chart recorder paper, 0 to -50 °C</b>	P0625-2111

**Padlock adaptor kit**

- > Allows a user-supplied padlock to be added to the freezer's outer handle for extra security
- > Available for upright models only

**Ordering information**

Description	Order no.
<b>Padlock adaptor kit, for CryoCube®</b>	F651570003
<b>Padlock adapter, for all upright ULT freezers besides CryoCubes® models</b>	P0625-1170

**CO<sub>2</sub> and LN<sub>2</sub> Back-up System**

- > Equipped with a battery back-up to temporarily protect the contents of your freezer in case of power failure
- > Available in either liquid CO<sub>2</sub> and LN<sub>2</sub>. Liquid CO<sub>2</sub> can maintain temperatures between -50 °C and -70 °C, where as LN<sub>2</sub> can go down to -85 °C
- > Both systems can be factory installed with your freezer order at no additional charge or retrofitted on location
- > Info: CO<sub>2</sub> and LN<sub>2</sub> are not interchangeable systems

**Ordering information**

Description	Order no.
<b>CO<sub>2</sub> back-up system, 230 V/50 Hz, Innova® and Green "G"</b>	U9043-0004
<b>LN<sub>2</sub> back-up system, 230 V/50 Hz, Innova® and Green "G"</b>	U9044-0004
<b>CO<sub>2</sub> back-up system, 230 V/50 Hz, CryoCube®, Premium, and HEF®</b>	U9043-0008
<b>LN<sub>2</sub> back-up system, 230 V/50 Hz, CryoCube®, Premium, and HEF®</b>	U9044-0008

## Freezer Racks



# Freezer Racks



## Ordering information

Description	Order no.
<b>Upright freezer rack: Innova® U101</b>	
50 mm (2 in) tall box, 10 boxes per rack	K0641-3003
75 mm (3 in) tall box, 6 boxes per rack	K0641-3004
100 mm (4 in) tall box, 4 boxes per rack	K0641-3005
<b>Chest freezer rack: Innova® C585, C760, CryoCube® FC660/ FC660h</b>	
50 mm (2 in) tall box, 13 boxes per rack	K0641-1690
75 mm (3 in) tall box, 9 boxes per rack	K0641-1700
100 mm (4 in) tall box, 6 boxes per rack	K0641-1750
<b>Upright freezer rack: Innova® U360, U535, U725, U725-G</b>	
50 mm box (2 in) tall box, 28 boxes per rack	K0641-3000
75 mm (3 in) tall box, 20 boxes per rack	K0641-3001
100 mm (4 in) tall box, 12 boxes per rack	K0641-3002
<b>Upright freezer rack: U410, HEF U410, U700, F570, F570h</b>	
50 mm (2 in) tall box, 16 boxes per rack	K0641-1900
75 mm (3 in) tall box, 12 boxes per rack	K0641-1890
100 mm (4 in) tall box, 8 boxes per rack	K0641-1880

**i** For more information go to [www.eppendorf.com](http://www.eppendorf.com)



# Eppendorf Storage Boxes

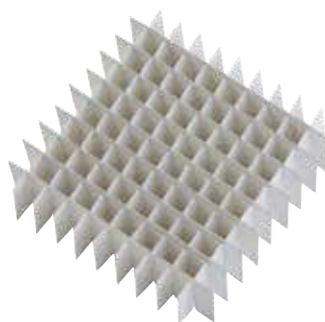


## Freezer Cardboard Storage Boxes

- > White cardboard box with water resistant coating, designed to withstand ultra-low temperature
- > Available in 50 mm (2 in), 75 mm (3 in), and 100 mm (4 in) tall boxes
- > Compatible with box dividers 7 × 7 to 10 × 10 (dividers sold separately)

### Ordering information

Description	Order no.
<b>Freezer Cardboard Storage Boxes, white</b>	
50 mm tall	B50-SQ
75 mm tall	B75-SQ
100 mm tall	B95-SQ



## Freezer Boxes Dividers

- > Available in 7 × 7, 8 × 8, 9 × 9 and 10 × 10 configurations
- > Compatible with freezer cardboard storage boxes (sold separately)

### Ordering information

Description	Order no.
<b>Freezer Boxes Dividers</b>	
7 × 7, 17.4 mm max. tube diameter, holds 49 tubes	D49
8 × 8, 15 mm max. tube diameter, holds 64 tubes	D64
9 × 9, 13 mm max. tube diameter, holds 81 tubes	D81
10 × 10, 11.8 mm max. tube diameter, holds 100 tubes	D100

For more information go to [www.eppendorf.com](http://www.eppendorf.com)



## The Eppendorf Storage Boxes – a complete system solution for sample storage

The comprehensive modular concept allows selection of the optimal box combinations for individual storage demands. The outer footprint dimensions are compatible with common freezer rack systems and the different inner grid variants provide for a perfect fit to all typical tube formats: cryogenic tubes, microcentrifuge tubes, conical tubes 15 and 50 mL and other laboratory vessels. This space-saving approach together with the application benefits resulting from the listed product features help to optimize your storage and archiving of samples.

### Product features

- > Made of polypropylene (PP) for high stability in freezing applications and smooth opening and closing
- > For freezing to -86 °C
- > High-contrast permanent alphanumeric marking of each location through laser labeling enables easy sample reference and minimizes risk of sample mix-up
- > Autoclavable (121 °C, 20 min)
- > Transparent lid for easy and fast sample inspection
- > Flexible and reliable labelling on the light colored box and on the 5 writing areas of the lid
- > Optimal use of freezer space due to flexible combination of the different formats

### Ordering information

Description	Order no.
<b>Storage Box 10 × 10</b> , for 100 cryogenic tubes w. int. thread, 3 pcs., height 52.8 mm, 2 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.508
<b>Storage Box 9 × 9</b> , for 81 screw cap (cryog.) tubes 1 – 2 mL, 3 pcs., height 52.8 mm, 2 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.516
<b>Storage Box 9 × 9</b> , for 81 screw cap (cryog.) tubes 3 mL, 2 pcs., height 76.2 mm, 3 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.540
<b>Storage Box 9 × 9</b> , for 81 screw cap (cryog.) tubes 4 – 5 mL, 2 pcs., height 101.6 mm, 4 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.567
<b>Storage Box 8 × 8</b> , for 64 tubes 1 – 2 mL, 3 pcs., height 52.8 mm, 2 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.524
<b>Storage Box 5 × 5</b> , for 25 tubes 5 mL, 4 pcs., height 63.5 mm, 2.5 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.532
<b>Storage Box 5 × 5</b> , for 25 tubes 5 mL screw cap, 2 pcs., height 76.2 mm, 3 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.613
<b>Storage Box 5 × 5</b> , for 25 tubes 15 mL, 2 pcs., height 127 mm, 5 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.583
<b>Storage Box 3 × 3</b> , for 9 tubes 50 mL and 4 tubes 15 mL, 2 pcs., height 127 mm, 5 inch, polypropylene, for freezing to -86 °C, autoclavable, with lid and alphanumeric code	0030 140.591