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TECHNOLOGY GROUP

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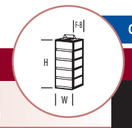
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Chest Freezers Individual Racks

for 2" or 3" box storage



Box Height	Catalog Number	Description/Dimensions	Cabinet Volume (Cu.Ft.)	3.1	6.8	10.3	13.7	17.1	20.5
				Total Rack Capacity–Internal Configuration (F-B x W)					
2" (50mm)	5972	Full rack w/ shelf lip, holds 7 boxes 16.56"H x 5.375"F-B x 5.375"W (420mm x 140mm x 140mm)		9 (3x3)					
	5978	Full rack w/ shelf lip, holds 11 boxes 26.1"H x 5.375"F-B x 5.375"W (660mm x 140mm x 140mm)		12 (3x4)	18 (3x6)	24 (3x8)	30 (3x10)	36 (3x12)	
	6230	Half rack w/ locking rod, holds 6 boxes 13.125"H x 5.562"F-B x 5.5"W (330mm x 140mm x 140mm)			24 2 levels of 3 x 4	36 2 levels of 3 x 6	48 2 levels of 3 x 8	60 2 levels of 3 x 10	72 2 levels of 3 x 12
	6232	Short full rack w/ locking rod, holds 4 boxes 8.75"H x 5.562"F-B x 5.5"W (220mm x 140mm x 140mm)			24 2 levels of 3 x 4	36 2 levels of 3 x 6	48 2 levels of 3 x 8	60 2 levels of 3 x 10	72 2 levels of 3 x 12
3" (80mm)	5973	Full rack w/ shelf lip, holds 5 boxes 16.5"H x 5.375"F-B x 5.375"W (410mm x 140mm x 140mm)		9 (3x3)					
	6096	Full rack w/ shelf lip, holds 8 boxes 25.75"H x 5.375"F-B x 5.375"W (650mm x 140mm x 140mm)			12 (3x4)	18 (3x6)	24 (3x8)	30 (3x10)	36 (3x12)
	6231	Half rack w/ locking rod, holds 4 boxes 13.125"H x 5.562"F-B x 5.5"W (330mm x 140mm x 140mm)			24 2 levels of 3 x 4	36 2 levels of 3 x 6	48 2 levels of 3 x 8	60 2 levels of 3 x 10	72 2 levels of 3 x 12
	6233	Short full rack w/ locking rod, holds 3 boxes 9.75"H x 5.562"F-B x 5.5"W (330mm x 140mm x 14 0mm)			24 2 levels of 3 x 4	36 2 levels of 3 x 6	48 2 levels of 3 x 8	60 2 levels of 3 x 10	72 2 levels of 3 x 12

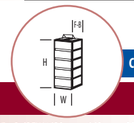

Boxes Sold Separately

Chest Freezers Full Load Inventory Systems

Box Height	Catalog Number	Description/Dimensions	Total Number of Racks	Total Number of Boxes and Dividers	Total Vial Capacity
2" (50mm)	6852	Complete Kit for 3.1 cu. ft.– includes racks, boxes and (100 cell) dividers	9	63	6300
	6856	Complete Kit for 6.8 cu. ft.– includes racks, boxes and (100 cell) dividers	12	132	13200
	6865	Complete Kit for 10.3 cu. ft.– includes racks, boxes and (100 cell) dividers	18	198	19800
	6867	Complete Kit for 13.7 cu. ft.– includes racks, boxes and (100 cell) dividers	24	264	26400
	6869	Complete Kit for 17.1 cu. ft.– includes racks, boxes and (100 cell) dividers	30	330	33000
	6878	Complete Kit for 20.5 cu. ft.– includes racks, boxes and (100 cell) dividers	36	396	39600
3" (80mm)	6859	Complete Kit for 3.1 cu. ft.– includes racks, boxes and (100 cell) dividers	9	45	4500
	6863	Complete Kit for 6.8 cu. ft.– includes racks, boxes and (100 cell) dividers	12	96	9600
	6872	Complete Kit for 10.3 cu. ft.– includes racks, boxes and (100 cell) dividers	18	144	14400
	6874	Complete Kit for 13.7 cu. ft.– includes racks, boxes and (100 cell) dividers	24	192	19200
	6876	Complete Kit for 17.1 cu. ft.– includes racks, boxes and (100 cell) dividers	30	240	24000
	6885	Complete Kit for 20.5 cu. ft.– includes racks, boxes and (100 cell) dividers	36	288	28800



Chest Freezer Racks for Microplate / Microtube

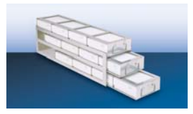


Type	Catalog Number	Description/Dimensions	Compartments	Cabinet Volume (Cu.Ft.) 3.1	6.8	10.3	13.7	17.1	20.5
				Total Rack Capacity–Internal Configuration (F-B x W)					
Microplates .562"H x 5"F-B x 3.375"W (10mm x 130mm x 90mm)	7153	Rack holds (25) plates w/lids or (30) plates w/o lids, 16.625"H x 5.5"F-B x 3.625W (420mm x 140mm x 90mm)	5	12 (4x3)					
7156 Locking Rod Model	7156	Rack holds (35) plates w/lids or (42) plates w/o lids, 23.25"H x 5.5"F-B x 3.625W (590mm x 140mm x 90mm)	7		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)
	7158	Rack holds (35) plates w/lids or (42) plates w/o lids w/ locking rod, 23.375"H x 5.5"F-B x 3.625W (590mm x 140mm x 90mm)	7		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)
Deep-well Plates 1.625"H x 5"F-B x 3.375"W (40mm x 130mm x 90mm)	7155	Rack holds (9) plates, 16.5"H x 5.5"F-B x 3.625W (420mm x 140mm x 90mm)	9	12 (4x3)					
7159 Locking Rod Model	7159	Rack holds (14) plates, 25.5"H x 5.5"F-B x 3.625W (650mm x 140mm x 90mm)	14		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)
	7160	Rack holds (14) plates w/ locking rod, 25.625"H x 5.5"F-B x 3.625W (650mm x 140mm x 90mm)	14		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)
Microtube Boxes 2.125"H x 5"F-B x 3.375"W (50mm x 130mm x 90mm) **or Microplates** .562"H x 5"F-B x 3.375"W (10mm x 130mm x 90mm)	7161	Rack holds (11) boxes or (33) plates w/lids or (44) plates w/o lids, 24.5"H x 5.5"F-B x 3.625W (620mm x 140mm x 90mm)	11		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)
	7162	Rack holds (11) boxes or (33) plates w/lids or (44) plates w/o lids w/ locking rod, 24.625"H x 5.5"F-B x 3.625W (630mm x 140mm x 90mm)	11		18 (3x6)	27 (3x9)	36 (3x12)	45 (3x15)	57(3x19)

Plates and Boxes Sold Separately.

Inventory Accessories

Drawer Rack



For upright freezers only. Stainless steel drawer racks hold standard 2"or 3" (50mm or 80mm) boxes (ordered separately). Drawers slide out for easy access to boxes.

Catalog No. 5992

For 2" Boxes Catalog No.	Drawers	For 3" Boxes Catalog No.	Drawers	inches (mm) Drawer Rack Dimensions	Upright Freezer Capacity 13.4 cu.ft.	17.2 cu.ft	20.2 cu.ft.	24.4 cu.ft.
5992	3	5991	2	5.4"W x 21.25" F-B x 7"H (140mm x 540mm x 180mm)		20	25	30
5994	4	5993	3	5.4"W x 16.1" F-B x 9.4"H (140mm x 400mm x 240mm)	20			
5996	4	5997	3	5.4"W x 21.25" F-B x 9.4"H (140mm x 540mm x 240mm)		20	25	30

Fiberboard Boxes

Fiberboard boxes and grid dividers are packaged in lots of one dozen. Boxes and dividers are sold separately. All boxes are 5.25" (130mm) square.


Fiberboard boxes with dividers

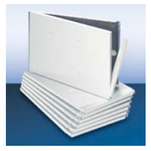
Description	
2" high boxes (50mm)	**Catalog No. 5954**
3" high box (80mm)	**Catalog No. 5956**

Fiberboard Grid Dividers

Description	
10 x 10, 7/16" cell, holds 100 – 12mm vials	**Catalog No. 5958**
7 x 7, 5/8" cell, holds 49 – 16mm vials	**Catalog No. 5959**
8 x 8, 9/16" cell , holds 64 – 14mm vials	**Catalog No. 5960**
9 x 9, 1/4" cell, holds 81 – 13mm vials	**Catalog No. 6212**

Red Cell Canister

For flat freezing and storage; holds one standard 1,000 ml red cell bag, plus tubing sections in external slot.



Description	
Red Cell Canister	**Catalog No. 6225**

Upright Freezer Shelves

Solid stainless steel shelves are reinforced for heavy loads. Shelves rest on removable mounting brackets which are adjustable in 1" (25.4mm) vertical increments. Each shelf includes 5 clips for left, rear and center support.

Description	
For 13.4 cu.ft. cabinet (379 liter)	**Catalog No. 6667**
For 17.2 cu.ft. cabinet (487 liter)	**Catalog No. 6668**
For 20.2 cu.ft. cabinet (572 liter)	**Catalog No. 6669**
For 24.4 cu.ft. cabinet (691 liter)	**Catalog No. 6670**

Note: All shelves are adjustable except standard top shelf, fixed position

Wire Basket Kits

Wire baskets offer convenient inventory management for chest freezers. The three-level array has upper and middle level baskets which slide on mounting rails. Bottom baskets rest on the freezer interior bottom, which is protected by a high-impact polystyrene liner.

- Catalog numbers in chart refer to complete basket kits including baskets, rails, liner and mounting hardware
- Large baskets are 16.5"L x 10.4"W x 7.8"D (410mm x 260mm x 200mm)
- Small baskets are 16.5"L x 8.5"W x 4.5"D (410mm x 220mm x 110mm)

To order individual baskets:

Large	Catalog No. 46062H01
Small	Catalog No. 44400H01

Catalog No.	Freezer Volume	Basket	Quantity
6217	6.8 cu.ft.	Large	Small
Level	Upper	1	
	Middle		1
	Lower	2	
6218	10.3 cu.ft.	Large	Small
Level	Upper	2	
	Middle		2
	Lower	3	
6190	13.7 cu.ft.	Large	Small
Level	Upper	3	
	Middle		4
	Lower	4	
6191	17.1 cu.ft.	Large	Small
Level	Upper	4	
	Middle		5
	Lower	5	
6192	20.5 cu.ft.	Large	Small
Level	Upper	5	
	Middle		6
	Lower	6	

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Accessories

Temperature Recorders



Catalog No. 6383-5

All 6" (150mm) circular chart, 7-day temperature recorders use pressure-sensitive chart paper; 1 box of 50 charts included.

- No inking is required
- Built-in, panel-mounted recorders are factory installed (specify when ordering)
- Free-standing recorders are customer installed

Temperature Recorder 6" chart, 7-day chart drive	-86°C and -40°C Freezers	-140°C and -150°C Freezers
Built-in, factory installed, specify when ordering	Catalog No. 6183-6	Catalog No. 6183-5
Built-in, field installed	Catalog No. 6283-6	Catalog No. 6283-5
Free-standing, customer installed	Catalog No. 6383-6*	Catalog No. 6383-5*
Chart paper, temperature range +50°C to -115°C	Catalog No. 6185**	
Chart paper, temperature range 0°C to -200°C		Catalog No. 7289**

*Indicate voltage **Package of 50

Backup Systems

Backup systems inject liquid CO_2 or LN_2 on demand when cabinet temperature warms to a pre-set level

- Built-in backup systems are available on Ultima II and Elite models only
- All Ultima II, Elite and Value Series 3.1 cu.ft. (88 liters) -86°C models require a free-standing backup system
- Liquid flow is shut off automatically when the freezer door or lid is opened
- Activation setpoints are adjustable in 1°C increments, to -75°C for CO_2 and -150°C for LN_2
- The control module digital display shows actual temperature when button is pushed
- An indicator light glows when activated
- The system operates on a continually recharged battery, and includes all hardware except the supply cylinder

Description	-86°C and -40°C Freezers	-150°C and -140°C Freezers
CO_2 backup system, built-in factory installed, specify when ordering	Catalog No. 6594*	n/a
LN_2 backup system, built-in factory installed, specify when ordering	Catalog No. 6595*	Catalog No. 6595
CO_2 backup system, free-standing, customer installed; specify when ordering	Catalog No. 6593**	n/a
LN_2 backup system, free-standing, customer installed; specify when ordering	Catalog No. 6214**	Catalog No. 6214

*Not available on 3.1 cu.ft. (88 liter) chest models. **Indicate voltage

Surge Suppressor

A built-in surge suppressor is standard on Ultima II Series models. A free-standing surge suppressor is available for Elite and Value Series models and requires field installation by a qualified electrician or factory authorized service center. Freezer model number and voltage must be specified when ordering.

Catalog No. 6402

Alarm Delay Module



Alarm delay module

The alarm delay eliminates nuisance alarms due to intermittent or transitory conditions such as lightning or brief power outages. The adjustable delay requires an alarm condition to exist continuously for a pre-determined time (adjustable) before a signal is released to a central alarm/monitoring system or telephone dialer.

Catalog No. 6903

Deluxe Electronic Remote Alarm

The REVCO deluxe electronic remote alarm can be programmed to sound an alarm in the event of a temperature increase or power failure.



- The alarm can dial up to 4 telephone numbers
- Advises of an alarm condition across any telephone system which accepts pulse dialing
- One system can monitor up to 4 individual freezers or up to 3 groups of freezers

Requires dedicated phone line Catalog No. 6224

Digital Temperature Monitor

Simple, accurate and cost-effective, the REVCO digital temperature and power monitor provides both alarm/monitoring and digital temperature display in a single, self-contained unit. Standard features include high alarm, alarm mute and chirp, audio delay timer, remote alarm contacts (SPDT), nicad battery backup, and low voltage AC power supply, 120V, AC.

Digital Temperature Monitor Specifications

	Digital		Microprocessor-Based		
Catalog No.	6898	6899	6900	6901	6902
Input channels	1	1	2	3	4
Temperature range	-100°C to+25°C				
Display and setpoint resolution	1°C	1°C	0.1°C	0.1°C	0.1°C
Temperature alarm	high only		high and low		
LCD alphanumeric display			8-character, back-lit, adjustable		
Visual alarm			green = normal; red = deviation		
Solid-state probe lead wire	8 foot Teflon®	8 foot 24 gauge	20' Teflon®, color-coded		
Relay delay	n/a		programmable, 0 – 30 minutes		
Alarm/battery test switch	n/a		standard		
Mounting method	Velcro®		bracket		
Case dimensions	5"L x 4.5"W x 2"D 130mm x 110mm x 50mm		6.25"L x 3.25"W x 2"D 160mm x 80mm x 50mm		

RS-232 Data Port and Software

For microprocessor-based Elite Series freezers only, standard on Ultima II models. Allows computer monitoring of freezer performance

Catalog No. 6405

Cabinet Pass-Thru Port

Each REVCO ultra-low and cryogenic freezer includes a 1" diameter (25.4mm) pass-thru port as standard equipment. Additional ports for probes, cables, leads or measuring instruments may be added. Additional ports are 1" diameter (25.4mm) unless otherwise specified.

Catalog No. 6105

Stainless Steel Interior

An optional stainless steel interior may be substituted for the standard powder painted interior; specify when ordering.

Cabinet Size, cu.ft. liters	Catalog No.
3.1 (88 liter) chest	6121
6.8 (193 liter) chest	6122
10.3 (292 liter) chest	6123
13.7 (388 liter) chest	6124
17.1 (484 liter) chest	6125
20.5 (581 liter) chest	6126
13.4 (379 liter) upright	6179
17.2 (487 liter) upright	6180
20.2 (572 liter) upright	6181
24.4 (691 liter) upright	6645

LabCooler™ Cryopreservation Modules



Catalog No. 6742

Modules are useful in providing nominal control over pulldown during initial freeze cycles, and maintaining temperature stability of stored samples in vials during handling.

- LabCooler and LabCooler Lite preservation modules are designed to freeze mammalian and insect cells with greater control over pulldown freezing prior to storage in an ultra-low freezer

LabCooler cryopreservation module; holds 32 standard vials

CatalogNo. 6742

LabCooler Lite cryopreservation module, holds 7 standard vials; includes a clear, interlocking top to allow viewing of contents.

Catalog No. 6743

LabCooler Lite benchtop cooler, holds 7 standard vials; includes a clear, interlocking top to allow viewing of contents.

Catalog No. 6745

Cryo Gloves



Catalog No. 4425

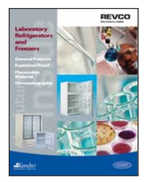
Suitable for use with ultra-cold surfaces, Cryo Gloves protect hands and arm when inserting or removing inventory.

- Layered material is specially selected for high insulation value with ample dexterity
- Mid-arm style is available in sizes medium or large

Medium	Catalog No. 4425
Large	Catalog No. 4426









All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles and control panel protrusions.

Kendro offers a complete line of REVCO® ultra-low temperature freezers, laboratory refrigerators, -20°C and -30°C freezers, automatic CO_2 incubators and specialty refrigeration products. For information on these and other REVCO products, call or visit our web site at www.kendro.com.

All models are designed to meet UL, CUL, CE and TUV criteria for safety and performance

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