

## 7. Heating and cooling technology

### Cooling/Cryogenic tubes-Cryogenic boxes

#### 1 Cryo Color Coders for Nunc Cryotubes

Use Nunc Cryo Color Coders as part of a versatile and comprehensive filing system. Fit all CryoTubes™ and are available in 10 different colours.

Thermo Scientific



Colour	PK	Cat. No.
Red	500	7.079 568
Orange	2000	9.401 272
Brown	500	7.630 646
White	2000	9.401 274
Blue	2000	9.401 275
Green	2000	9.401 276
Magenta	500	6.204 811
Yellow	2000	9.401 278
Purple	500	6.901 208
Grey	500	6.901 244
Assorted colours	500	7.200 519

#### 2 Miniboxes for CryoTubes™, PS

Miniboxes made from High Impact Polystyrene (HIPS) are ideal for the transport of CryoTubes™. Available in two sizes.

Thermo Scientific



For	PK	Cat. No.
5 CryoTubes™ 1.0-1.8ml	350	9.390 600
10 CryoTubes™ 1.0-1.8ml	200	9.390 601

#### 3 Storage boxes, PC for cryogenic tubes

Operating range: -196 °C to +121 °C (in gas phase of liquid nitrogen). Autoclavable at 121 °C (2 bar), according to DIN EN 285.

**NEW**  
BRAND



For tubes	For thread type	Width	Depth	Height	Aperture array	PK	Cat. No.
ml		mm	mm	mm	qty.		
1.2 and 2	internal / external	132	132	52	81	1	7.400 583
3, 4 and 5	external	132	132	95	81	1	7.071 111
1.2 and 2	internal	132	132	52	100	1	7.300 574

#### 4 LLG-Cryogenic storage boxes, plastic coated, 136 x 136

Freezer and cryogenic storage boxes (CryoBoxes). Made of cardboard, **plastic coated** without divider. Dimensions: 136 x 136mm square. For the storage of samples. With lid. Further colours available on request.



Colour	Int. height mm	PK	Cat. No.
white	32	1	4.653 682
blue	32	1	6.269 788
red	32	1	6.269 789
green	32	1	6.269 790
yellow	32	1	6.269 791
white	50	1	6.080 130
yellow	50	1	6.077 876
blue	50	1	6.077 875
green	50	1	6.081 021
red	50	1	6.081 022
white	75	1	6.802 726
blue	75	1	6.260 006
red	75	1	6.260 007
green	75	1	6.260 008
yellow	75	1	6.260 009
white	100	1	6.237 840
blue	100	1	6.260 010
red	100	1	6.260 011
green	100	1	6.260 012
yellow	100	1	4.654 547
white	130	1	6.083 519

## Cooling/Cryogenic boxes



### 1 LLG-Partition inserts for LLG-Cryoboxes, 136 x 136

For cryoboxes 136 x 136mm. With compartment heights and formats as indicated. Other sizes available on request.

Height	Array	PK	Cat. No.
<b>mm</b>			
22	7 x 7	1	4.654 558
22	8 x 8	1	4.654 557
22	9 x 9	1	4.654 556
22	10 x 10	1	4.654 555
40	9 x 9	1	9.405 872
22	12 x 12	1	4.654 554
22	13 x 13	1	4.654 553
22	14 x 14	1	4.654 552
22	16 x 16	1	6.257 202
30	4 x 4	1	6.305 840
30	5 x 5	1	9.401 055
30	6 x 6	1	6.090 419
30	7 x 7	1	7.617 877
30	8 x 8	1	6.243 752
30	9 x 9	1	9.405 871
30	10 x 10	1	9.405 875
30	12 x 12	1	9.401 050
30	13 x 13	1	6.228 893
30	14 x 14	1	6.260 016
30	16 x 16	1	9.405 883
40	4 x 4	1	6.401 505
40	5 x 5	1	6.260 020
40	6 x 6	1	6.202 839
40	7 x 7	1	6.802 215
40	8 x 8	1	6.900 361
40	10 x 10	1	9.405 876
40	12 x 12	1	9.405 880
65	6 x 6	1	6.201 071
65	8 x 8	1	6.801 789
65	9 x 9	1	9.405 873
65	10 x 10	1	9.405 877
65	4 x 4	1	9.405 870
65	5 x 5	1	6.079 677

2



### 2 LLG-Cryogenic storage boxes, plastic coated, 133 x 133

Made of cardboard, **plastic coated**. Without divider. Dimensions: 133 x 133 mm square. For the storage of samples. With lid. Further sizes and colours available on request.

Colour	Int. height mm	PK	Cat. No.
white	32	1	6.260 029
red	32	1	6.234 735
green	32	1	4.654 505
yellow	32	1	4.654 506
blue	32	1	6.802 431
white	50	1	6.082 701
red	50	1	6.081 654
green	50	1	6.084 538
yellow	50	1	6.260 091
blue	50	1	6.700 568
white	75	1	6.801 707
yellow	75	1	6.260 031
green	75	1	6.803 056
blue	75	1	9.698 776
white	100	1	6.260 032
red	100	1	9.698 787
yellow	100	1	9.698 789
blue	100	1	9.698 786
green	100	1	9.698 788
white	130	1	6.260 033

## 7. Heating and cooling technology

### Cooling/Cryogenic boxes

#### 1 Partition inserts for LLG-Cryoboxes, 133 x 133

For cryoboxes 133 x 133 mm. With compartment heights and formats as indicated. Other sizes available on request.

Height	Array	PK	Cat. No.
<b>mm</b>			
22	7 x 7	1	4.654 511
22	8 x 8	1	4.654 512
22	9 x 9	1	6.265 799
22	10 x 10	1	6.265 800
22	12 x 12	1	4.653 626
30	4 x 4	1	6.260 038
30	5 x 5	1	7.606 811
30	6 x 6	1	6.265 798
30	7 x 7	1	9.698 773
30	8 x 8	1	9.698 772
30	9 x 9	1	6.081 879
30	10 x 10	1	6.075 820
30	12 x 12	1	6.260 035
40	4 x 4	1	4.654 519
40	5 x 5	1	6.260 044
40	6 x 6	1	6.260 043
40	7 x 7	1	9.698 783
40	8 x 8	1	9.698 782
40	9 x 9	1	9.698 781
40	10 x 10	1	9.698 780
65	3 x 3	1	4.654 521
65	4 x 4	1	6.079 079
65	5 x 5	1	6.260 046
65	6 x 6	1	6.206 129
65	7 x 7	1	9.698 793
65	8 x 8	1	9.698 792
65	9 x 9	1	9.698 791
65	10 x 10	1	9.698 790
30	14 x 14	1	4.654 514



#### 2 LLG-Cryobox for 5 ml centrifuge tubes with partition insert, white, 133 x 133

**NEW**

Water repellent high quality and recyclable carton. With partition inserts for up to 25 x 5 ml centrifuge tubes.

Description	Array	PK	Cat. No.
LLG-Cryobox	5 x 5	1	6.281 179



#### 3 Cryogenic Cardboard Boxes, 145 x 145 and Partitions

For storage of large samples and 15 and 50 ml tubes. One size box safely stores 15 and 50 ml tubes in LN<sub>2</sub> or mechanical freezers. Choose from two partitions for your tube size. Colour white.

Heathrow Scientific

Description	Int. height mm	PK	Cat. No.
Box for 15 or 50 ml tubes, with lid	122	1	6.254 570
Partition for 16 x 50 ml tubes	122	1	6.254 571
Partition for 36 x 15 ml tubes	122	1	6.254 572



#### 4 LLG-Cryogenic storage boxes, PP, autoclavable

With 81 places, 9 x 9 grid and numerical coded. Robust hinge with safe snap-on lid, stackable for safe transport. Minimised liquid retention. Guaranteed metal free. Temperature resistant from -90 °C - +121 °C, autoclavable at 121 °C, opened, 20 minutes. Dimensions: 133 x 133 x 52 mm

Colour	Array	PK	Cat. No.
Magenta/clear	9 x 9	1	9.405 800



## Cooling/Cryogenic boxes



### 4 Cryogenic Boxes true north® Flatpack, PP

**NEW**

Heathrow Scientific

Store down to temperatures of -80 °C.  
Suitable for repeated freezing and defreezing.

For tubes	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.
ml		mm			
0.2	white	133 x 130 x 30	144	10	<b>6.281 163</b>
0.2	blue	133 x 130 x 30	144	10	<b>6.281 164</b>
0.5	white	133 x 130 x 42	81	10	<b>6.281 166</b>
0.5	blue	133 x 130 x 42	81	10	<b>6.281 167</b>
1.5/2.0	white	133 x 130 x 51	81	10	<b>6.281 158</b>
1.5/2.0	blue	133 x 130 x 51	81	10	<b>6.281 161</b>
5.0	white	133 x 130 x 75	25	10	<b>6.281 169</b>
5.0	blue	133 x 130 x 75	25	10	<b>6.281 170</b>
15	white	145 x 145 x 36	36	10	<b>6.281 172</b>
15	blue	145 x 147 x 120	36	10	<b>6.281 173</b>
50	white	145 x 147 x 120	16	10	<b>6.281 159</b>
50	blue	145 x 147 x 120	16	10	<b>6.281 160</b>



### 5 Cryogenic Boxes true north® Flatpack, PP Film

**NEW**

Heathrow Scientific

Store down to temperatures of -196 °C.

For tubes	Colour	Dimensions (W x D x H)	Array	PK	Cat. No.
ml		mm			
1.5/2.0	white	125 x 125 x 49	81	10	<b>6.284 250</b>
1.5/2.0	blue	125 x 125 x 49	81	10	<b>6.284 251</b>
1.5/2.0	green	125 x 125 x 49	81	10	<b>6.284 252</b>
1.5/2.0	purple	125 x 125 x 49	81	10	<b>6.284 253</b>



### 6 Cryogenic storage boxes Arctic Square®, PC, autoclavable

Heathrow Scientific

Safely store vials from -196 to +121 °C for repeated use in mechanical freezers as well as liquid nitrogen. Boxes are designed with unique features to help the user orient, identify, and access vials with ease. The forward-sloped base and high-contrast, imprinted indexing on the transparent lid ensure quick visual orientation. Hinged lid allows easy one-handed access to samples. A built-in stop prevents the lid from swinging too far when the box is picked up by the lid, helping to prevent accidental spills. The 5 x 5 array box does not have hinged lid. All boxes include vent and drainage holes. Stackable. Autoclavable.

For tubes	Colour	Dimensions (W x D x H)	Array	Figure	PK	Cat. No.
		mm				
up to 2.0 ml	red	76 x 76 x 53	5 x 5	A	1	<b>9.405 911</b>
up to 5.0 ml	purple	133 x 133 x 96	9 x 9	C	1	<b>9.405 912</b>
up to 2.0 ml	red, blue, green, purple	133 x 133 x 53	9 x 9	B	4	<b>9.405 913</b>
up to 2.0 ml	blue	133 x 133 x 53	10 x 10	D	1	<b>9.405 910</b>



### 7 Cryogenic boxes, PP, autoclavable, 133 x 133

Ratiolab

Polypropylene. 9 x 9 array. Resists ultra-low storage temperatures from -90 °C up to +121 °C. With grid numbers on the lid for reliable identification of individual samples. Box fits most stainless steel racks. Autoclavable

Colour	Height mm	PK	Cat. No.
natural	52	1	<b>9.405 890</b>
yellow	52	1	<b>9.405 892</b>
red	52	1	<b>9.405 894</b>
green	52	1	<b>9.405 896</b>
blue	52	1	<b>9.405 898</b>
black	52	1	<b>9.405 900</b>
natural	75	1	<b>9.405 891</b>
yellow	75	1	<b>9.405 893</b>
red	75	1	<b>9.405 895</b>
green	75	1	<b>9.405 897</b>
blue	75	1	<b>9.405 899</b>
black	75	1	<b>9.405 901</b>

## 7. Heating and cooling technology Cooling/Cryogenic boxes

### 1 2 Cryogenic boxes, slip lid with adaptable height, PP, 133 x 133

- Made from polypropylene
- Height adaptable from 50 mm to 75 mm, by turning the lid 90°.
- 9 x 9 array, 10 x 10 array
- Numerical coded places (except black box)
- Drain bores at the bottom for dew liquids
- Autoclavable, temperature resistant from -90 °C to +121 °C

Ratiolab



For tubes diam.	Colour	Array	PK	Cat. No.
mm				
13	natural	9 x 9	5	9.405 840
13	yellow	9 x 9	5	9.405 843
13	red	9 x 9	5	9.405 845
13	green	9 x 9	5	9.405 844
13	blue	9 x 9	5	9.405 842
13	black	9 x 9	5	9.405 846
13	natural, yellow, red, green, blue	9 x 9	5	9.405 841
11.5	natural	10 x 10	5	9.405 847
11.5	yellow	10 x 10	5	9.405 848
11.5	red	10 x 10	5	9.405 849
11.5	green	10 x 10	5	9.405 850
11.5	blue	10 x 10	5	9.405 851
11.5	black	10 x 10	5	9.405 852
11.5	natural, yellow, red, green, blue	10 x 10	5	9.405 855



### 3 Cryogenic boxes, Type 5025, 5026, 5027, 5050, PC, autoclavable

Stable, autoclavable PC. With printed grid on lid for cryovials and similar tubes up to 13.5 mm diameter. Temperature resistant from -196 to +121 °C. With grid numbers for reliable identification of individual samples.

Thermo Scientific

\*Type 5050 is a plain box with transparent PC lid, without grid, used for storing tubes of various sizes. Supplied in packs as outlined below.

\*\*Only for tubes up to 12.5 mm diameter.

Type	For tubes ml	Dimensions (l x w x h) mm	Array	PK	Cat. No.
SYSTEM 100™ 5026**	1/1.5	133 x 133 x 52	10 x 10	1	9.400 927
CryoBoxes™ 5025	1.2/2.0	76 x 76 x 52	5 x 5	1	9.400 946
CryoBoxes™ 5026	1.2/2.0	133 x 133 x 52	9 x 9	1	9.400 947
CryoBoxes™ 5027	5.0	133 x 133 x 95	9 x 9	1	9.400 948
Storage Box 5050*		133 x 133 x 52	1	1	9.400 949



### 4 Cryogenic boxes, PP, 81 well, autoclavable

The boxes are made of polypropylene and can be used in temperatures as low as -90 °C. The boxes are autoclavable at +121 °C for 20 minutes. The boxes have a fixed grid divider with 9x9 cells and are suited for 1.2 ml and 2 ml cryogenic vials. Cellcodes are printed on the lid for easy identification.

Type	Dimensions (l x w x h) mm	PK	Cat. No.
Blue	130 x 130 x 50	1	9.698 708
Green	130 x 130 x 50	1	9.698 709
Natural	130 x 130 x 50	1	9.698 710
Red	130 x 130 x 50	1	9.698 711
Yellow	130 x 130 x 50	1	9.698 712



### 5 Cryogenic boxes, PP, 81 well, autoclavable

Polypropylene box fits in standard freezer racks. Locate tubes is easily with moulded grid lines and a moulded reference point on the lid. Stores 1.5 ml to 2.0 ml microtubes under easy-open, friction-fit lid. Dimensions: 130 mm x 130 mm x 47 mm. Autoclavable.

Heathrow Scientific

Colour	PK	Cat. No.
natural	1	9.193 983
blue	1	7.078 821
green	1	7.058 103
pink	1	7.058 102
yellow	1	7.078 822
orange	1	7.083 522
blue, green, pink, yellow, orange	5	9.193 984



## Cooling/Cryogenic boxes



### 1 Microtube Storage Boxes, PP, 50-/100-Well

Autoclavable. Compact storage box has angled front slot for easy access to tubes.

Heathrow Scientific

Rugged, polypropylene box has durable three-point hinges, snapping clasp for secure closure, moulded grid lines on lid, imprinted coordinates on bottom of base and imprinted and raised coordinates on tube wells. Ideal for sample or case study storage. Holds 1.5 ml to 2.0 ml microtubes. Resist storage temperatures from -80 to +121 °C.

Colour	Dimensions (l x w x h) mm	Array	PK	Cat. No.
blue, green, purple, yellow, orange	141 x 92 x 56	50	5	9.193 985
natural	141 x 92 x 56	50	1	6.243 162
blue, green, purple, yellow, orange	141 x 151 x 57	100	5	9.193 981
natural	141 x 151 x 57	100	1	6.206 710



### 2 Microtube Storage Boxes

NEW

ISOLAB

Manufactured from polycarbonate with high mechanical strength and high temperature resistance between -196 to +121 °C. Uniquely designed to carry 81 cryo tubes in 9 x 9 array "Hedgehog" designed tube compartments holds the tube in their position firmly.

Unique design with vent and drainage holes guarantees best, efficient air circulation.

Forward slope base ensures quick visual orientation. Easily stackable for reducing storage space.

Hinged lid with built-in stop allows easy one-handed access to tubes.

Clear box lid enables easy identification of box content and protects the tubes from dust, moisture and other environmental effects.

Alphanumerical index both on tube rows and the lid enables easy identification of tube positions.

Box is supplied together with a disposable forceps, made from ABS, with fine end for easy handling and fast removal of tubes.

Volume ml	PK	Cat. No.
2,0	1	6.286 847
5,0	1	6.286 848



### 3 50-/100-Well cryogenic boxes, EPS

Heathrow Scientific

Inexpensive freezer storage. Lightweight 1.5 ml to 2.0 ml microtube racks are ideal for long-term studies or tube storage. Two-piece racks are constructed of expanded polystyrene (EPS) foam. Extra spacing between wells allows easy gripping with fingertips. Racks stack securely with nesting features on lid and base.

Resist storage temperatures from -80 °C up to +70 °C. Not autoclavable.

Dimensions (l x w x h) mm	No. of wells	PK	Cat. No.
210 x 100 x 71	50	1	9.193 987
336 x 95 x 73	100	1	9.193 986



### 4 Cryoware marker set, Type 6313

Thermo Scientific

For durable labelling of cardboard, plastic and cloth material for use at ultra-low temperatures. Non-smudge and non-running. Removable with alcohol. Extra fine point.

Two packs available:

1 pack contains one each red, green, black and blue marker while the other pack contains black markers only.

Type	Description	PK	Cat. No.
6313	Assorted	4	9.400 978
6313	Black	4	9.400 979