



INVENTORY SYSTEMS FOR ULTRA-LOW TEMPERATURE FREEZERS

Rack Solutions for:

VIP ECO ULT Freezers
TwinGuard ULT Freezers
VIP ULT Freezers
PRO ULT Freezers
Cryogenic ULT Freezers

Choose from a variety of racks,
boxes and dividers



Optimize and simplify access to stored materials with inventory racks suitable for your application.

Organizing the space in your freezer can help you to make your work more efficient. Good sample management can result in both cost and time savings. By choosing the right racks, not only will efficiency be increased, but the risk of sample degradation due to exposure to ambient temperatures will be significantly reduced. This is a fact for any type of cell or tissue sample.

DURABLE LONG-TERM STORAGE

Racks are available in stainless steel and aluminium. Both racks types provide a durable and reliable long-term storage solution.

EASY SAMPLE ACCESS

Intuitive rack and handle design

MAXIMIZE FREEZER BOX STORAGE

Optimum freezer and footprint cost per box

EXCLUSIVELY DESIGNED FOR PHCbi

Made for upright and chest freezers


- Stainless steel or aluminium construction designed to withstand a lifetime of use.
- Racks are available for use with fibreboard or plastic boxes.
- Intuitive rack designs make it easy to access and return racks to the freezer.
- Maximum storage in freezer footprint.
- Sized to fit the PHCbi family of upright and chest freezers.
- Custom made racks to suit your unique storage requirements are available upon request.




UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-DU502VH-PE | MDF-DU702VH-PE

Example with SDR-624-P




MDF-DU502VH-PE




Volume 528 Liter
Columns x rows 4 x 4
Total rack capacity 16

Example with SDR-624-P



MDF-DU702VH-PE



Volume 729 Liter
Columns x rows 6 x 4
Total rack capacity 24

ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU502VH-PE										
with trays	2 inch	4 x HCS-296	2x2	384	280	560	685	133	136	52
with trays	2 inch	16 x HCS-6564	4x4	384	140	560	339	130	133	52
side opening	2 inch	16 x NIR-224U	4x4	384	139	559	334	135	135	52
with trays	3 inch	16 x HCS-4804	4x4	256	140	560	320	130	133	75
side opening	3 inch	16 x NIR-316U	4x4	256	139	560	334	135	135	75
MDF-DU702VH-PE										
with trays	2 inch	6 x HCS-296	3x2	576	280	560	685	133	136	52
with trays	2 inch	24 x HCS-6564	6x4	576	140	560	339	130	133	52
side opening	2 inch	24 x NIR-224U	6x4	576	139	559	334	135	135	52
with trays	3 inch	24 x HCS-4804	6x4	384	140	560	320	130	133	75
side opening	3 inch	24 x NIR-316U	6x4	384	139	559	324	135	135	75

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU502VH-PE										
with trays	2 inch	16 x SDR-624-N	4x4	384	139.45	565.4	325.12	134	137	52
		16 x SDR-624-P	4x4	384	139.45	565.4	339.59	134	137	54,5
side opening	2 inch	16 x SUR-624-N	4x4	384	139.7	569.72	320.29	136	137	52
		16 x SUR-624-P	4x4	384	139.7	569.72	332.74	136	137	54,5
with trays	3 inch	16 x SDR-434-N	4x4	256	139.45	565.4	320.54	134	137	78
side opening	3 inch	16 x SUR-434-N	4x4	256	139.7	569.72	320.29	136	137	78
MDF-DU702VH-PE										
with trays	2 inch	24 x SDR-624-N	6x4	576	139.45	565.4	325.12	134	137	52
		24 x SDR-624-P	6x4	576	139.45	565.4	339.59	134	137	54,5
side opening	2 inch	24 x SUR-624-N	6x4	576	139.7	569.72	320.29	136	137	52
		24 x SUR-624-P	6x4	576	139.7	569.72	332.74	136	137	54,5
with trays	3 inch	24 x SDR-434-N	6x4	384	139.45	565.4	320.54	134	137	78
side opening	3 inch	24 x SUR-434-N	6x4	384	139.7	569.72	320.29	136	137	78

* Unit: mm



HCS-296



NIR-224U



SDR-624-N




SDR-434-N

UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-DU302VX-PE | MDF-DU502VX-PE | MDF-DU702VX-PE

Example with SDR-524-N


MDF-DU302VX-PE



Volume 360 Liter
Columns x rows 3 x 4
Total rack capacity 12

Example with SDR-624-P

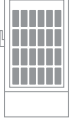
MDF-DU502VX-PE



Volume 528 Liter
Columns x rows 4 x 4
Total rack capacity 16

Example with SDR-624-P

MDF-DU702VX-PE



Volume 729 Liter
Columns x rows 6 x 4
Total rack capacity 24

ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU302VX-PE										
with trays	2 inch	12 x HCS-32-5584/143	3x4	240	143	560	280	133	136	52
side opening	2 inch	12 x NIR-220U	3x4	240	139	559	279	135	135	52
with trays	3 inch	12 x HCS-32-3804/143	3x4	144	143	560	232	133	136	71
side opening	3 inch	12 x NIR-312U	3x4	144	139	559	279	135	135	88
MDF-DU502VX-PE										
with trays	2 inch	4 x HCS-296	2x2	384	280	560	685	133	136	52
with trays	2 inch	16 x HCS-6564	4x4	384	140	560	339	130	133	52
side opening	2 inch	16 x NIR-224U	4x4	384	139	559	334	135	135	52
with trays	3 inch	16 x HCS-4804	4x4	256	140	560	320	130	133	75
side opening	3 inch	16 x NIR-316U	4x4	256	139	560	334	135	135	75
MDF-DU702VX-PE										
with trays	2 inch	6 x HCS-296	3x2	576	280	560	685	133	136	52
with trays	2 inch	24 x HCS-6564	6x4	576	140	560	339	130	133	52
side opening	2 inch	24 x NIR-224U	6x4	576	139	559	334	135	135	52
with trays	3 inch	24 x HCS-4804	6x4	384	140	560	320	130	133	75
side opening	3 inch	24 x NIR-316U	6x4	384	139	559	324	135	135	75

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU302VX-PE										
with trays	2 inch	12 x SDR-524-N	3x4	240	139.45	565.4	288.79	134	138	54
side opening	2 inch	12 x SUR-524-N	3x4	240	139.7	569.72	279.65	137	138	54
with trays	3 inch	12 x SDR-334-N	3x4	144	139.45	565.4	250.69	134	138	78
side opening	3 inch	12 x SUR-334-N	3x4	144	139.7	569.72	244.85	137	138	78
MDF-DU502VX-PE										
with trays	2 inch	16 x SDR-624-N	4x4	384	139.45	565.4	325.12	134	137	52
		16 x SDR-624-P	4x4	384	139.45	565.4	339.59	134	137	54,5
side opening	2 inch	16 x SUR-624-N	4x4	384	139.7	569.72	320.29	136	137	52
		16 x SUR-624-P	4x4	384	139.7	569.72	332.74	136	137	54,5
with trays	3 inch	16 x SDR-434-N	4x4	256	139.45	565.4	320.54	134	137	78
side opening	3 inch	16 x SUR-434-N	4x4	256	139.7	569.72	320.29	136	137	78
MDF-DU702VX-PE										
with trays	2 inch	24 x SDR-624-N	6x4	576	139.45	565.4	325.12	134	137	52
		24 x SDR-624-P	6x4	576	139.45	565.4	339.59	134	137	54,5
side opening	2 inch	24 x SUR-624-N	6x4	576	139.7	569.72	320.29	136	137	52
		24 x SUR-624-P	6x4	576	139.7	569.72	332.74	136	137	54,5
with trays	3 inch	24 x SDR-434-N	6x4	384	139.45	565.4	320.54	134	137	78
side opening	3 inch	24 x SUR-434-N	6x4	384	139.7	569.72	320.29	136	137	78

* Unit: mm



HCS-32-5584/143




NIR-312U



SDR-434-N


UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-U33V-PE | MDF-DU300H-PE




Example with 6x NIR-216U + 6x NIR-220U

MDF-U33V-PE




Volume 333 Liter
Columns x rows 3x2 + 3x2
Total rack capacity 12



Example with 6x NIR-216U + 6x NIR-220U

MDF-DU300H-PE



Volume 333 Liter
Columns x rows 3x2 + 3x2
Total rack capacity 12

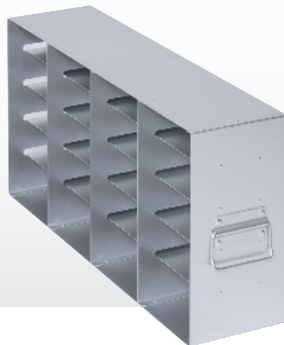
ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-U33V-PE / MDF-DU300H-PE										
with trays	2 inch	6 x HCS-32-4584/143 + 6 x HCS-32-5584/143	3x2 + 3x2	216	143	560	232/280	133	136	52
side opening	2 inch	6 x NIR-216U + 6 x NIR-220U	3x2 + 3x2	216	139	559	232/279	135	135	52
with trays	3 inch	12 x HCS-32-3804/143	3x4	144	143	560	232	133	136	71
side opening	3 inch	12 x NIR-312U	3x4	144	139	559	279	135	135	88

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-U33V-PE / MDF-DU300H-PE										
with trays	2 inch	6 x SDR-424-N + 6 x SDR-524-N	3x2 + 3x2	216	139.45	565.4	288.79 / 325.12	134	137	54
side opening	2 inch	6 x SUR-424-N + 6 x SUR-524-N	3x2 + 3x2	216	139.7	569.72	233.68 / 279.65	134	137	54
with trays	3 inch	12 x SDR-334-N	3x4	144	139.45	565.4	250.69	134	137	78
side opening	3 inch	12 x SUR-334-N	3x4	144	139.7	569.72	244.85	136	137	78

* Unit: mm



NIR-220U



HCS-32-5584/143




SUR-524-N



SDR-334-N

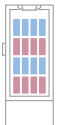
UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-U55V-PE | MDF-U76V-PE




Example with 8x SDR-334-N + 8x SDR-434-N

MDF-U55V-PE

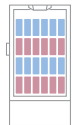


Volume 519 Liter
Columns x rows 4x2 + 4x2
Total rack capacity 16



Example with 12x SDR-334-N + 12x SDR-434-N

MDF-U76V-PE



Volume 728 Liter
Columns x rows 6x2 + 6x2
Total rack capacity 24

ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-U55V-PE										
with trays	2 inch	4 x HCS-519	2x2	352	280	560	640	133	136	53
with trays	2 inch	8 x HCS-5584 + 8 x HCS-6564	4x2 + 4x2	352	140	560	290/339	130	133	52
side opening	2 inch	8 x NIR-220U + 8 x NIR-224U	4x2 + 4x2	352	139	559	279/334	130	133	52
with trays	3 inch	8 x HCS-4804 + 8 x HCS-3804	4x2 + 4x2	224	140	560	340/279	130	133	75
side opening	3 inch	8 x NIR-316U + 8 x NIR-312U	4x2 + 4x2	224	139	559	324/279	135	135	75
MDF-U76V-PE										
with trays	2 inch	6 x HCS-519	3x2	528	280	560	640	133	136	53
with trays	2 inch	12 x HCS-5584 + 12 x HCS-6564	6x2 + 6x2	528	140	560	290/339	130	133	52
side opening	2 inch	12 x NIR-220U + 8 x NIR-224U	6x2 + 6x2	528	139	559	279/334	130	133	52
with trays	3 inch	12 x HCS-4804 + 12 x HCS-3804	6x2 + 6x2	336	140	560	340/279	130	133	75
side opening	3 inch	12 x NIR-316U + 12 x NIR-312U	6x2 + 6x2	336	139	559	324/279	135	135	75

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-U55V-PE										
with trays	2 inch	8 x SDR-524-N + 8 x SDR-624-N	4x2 + 4x2	352	139.45	565.4	288.79 / 325.12	134	137	54 / 52
side opening	2 inch	8 x SUR-524-N + 8 x SUR-624-N	4x2 + 4x2	352	139.7	569.72	279.65 / 320.29	136	137	54 / 52
with trays	3 inch	8 x SDR-334-N + 8 x SDR-434-N	4x2 + 4x2	224	139.45	565.4	250.69 / 320.54	134	137	78
side opening	3 inch	8 x SUR-334-N + 8 x SUR-434-N	4x2 + 4x2	224	139.7	569.72	244.85 / 320.29	136	137	78
MDF-U76V-PE										
with trays	2 inch	24 x SDR-624-N	6x4	576	139.45	565.4	325.12	134	137	52
side opening	2 inch	24 x SUR-624-N	6x4	384	139.7	569.72	320.29	136	137	52
with trays	3 inch	12 x SDR-334-N + 12 x SDR-434-N	6x2 + 6x2	336	139.45	565.4	250.69 / 320.29	134	137	78
side opening	3 inch	12 x SUR-334-N + 12 x SUR-434-N	6x2 + 6x2	336	139.7	569.72	244.85 / 320.29	136	137	78

* Unit: mm



HCS-519



HCS-6564



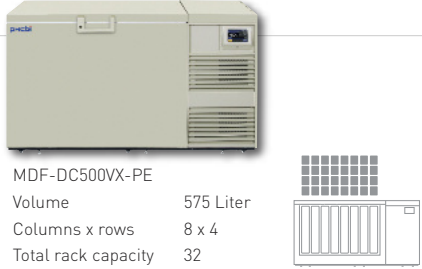
SDR-524-N



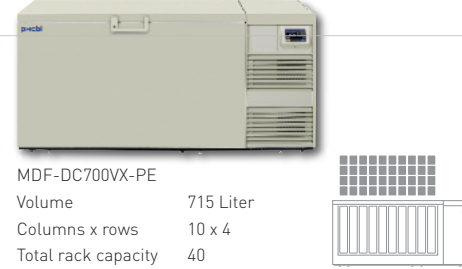
SUR-624-N

CHEST FREEZER INVENTORY RACKS

Models: MDF-DC500VX-PE | MDF-DV700VX-PE



MDF-DC500VX-PE
 Volume 575 Liter
 Columns x rows 8 x 4
 Total rack capacity 32



MDF-DC700VX-PE
 Volume 715 Liter
 Columns x rows 10 x 4
 Total rack capacity 40

ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DC500VX-PE										
side opening	2 inch	32 x NIR-213C	8x4	416	139	137	745	133	133	52
side opening	3 inch	32 x NIR-309C	8x4	288	139	137	745	133	133	75
MDF-DC700VX-PE										
side opening	2 inch	40 x NIR-213C	10x4	520	139	137	745	133	133	53
side opening	3 inch	40 x NIR-309C	10x4	360	139	137	745	133	133	75

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DC500VX-PE										
side opening	2 inch	32 x SCR-132-N	8x4	416	139.7	144	725.93	136	142	54
side opening	3 inch	32 x SCR-093-N	8x4	288	139.7	144	738.63	136	142	75
MDF-DC700VX-PE										
side opening	2 inch	40 x SCR-132-N	10x4	520	139.7	144	725.93	136	142	54
side opening	3 inch	40 x SCR-093-N	10x4	360	139.7	144	738.63	136	142	75

* Unit: mm



NIR-213C




SCR-132-N





SCR-093-N

CHEST FREEZER INVENTORY RACKS


Models: MDF-1156(ATN)-PE | MDF-C2156VAN-PE



MDF-1156(ATN)-PE
 Volume 128 Liter
 Columns x rows 3 x 3
 Total rack capacity 9

MDF-C2156VAN-PE
 Volume 231 Liter
 Columns x rows 5 x 3
 Total rack capacity 15



ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-1156(ATN)-PE										
side opening	2 inch	9 x NIR-209C	3x3	81	142	141	516	133	133	53
side opening	3 inch	9 x NIR-306C	3x3	54	142	141	516	133	133	75
MDF-C2156VAN-PE										
opening	2 inch	15 x NIR-210C	5x3	150	142	141	590	133	133	53
side opening	3 inch	15 x NIR-307C	5x3	105	142	141	590	133	133	78

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-1156(ATN)-PE										
side opening	2 inch	9 x SCR-102-N	3x3	90	139.7	144	564.13	136	142	54
side opening	3 inch	9 x SCR-063-N	3x3	54	139.7	144	494.28	136	142	75
MDF-C2156VAN-PE										
side opening	2 inch	15 x SCR-102-N	5x3	150	139.7	144	564.13	136	142	54
side opening	3 inch	15 x SCR-073-N	5x3	105	139.7	144	575.31	136	142	75

* Unit: mm



NIR-209C



SCR-102-N




SCR-073-N




UPRIGHT & CHEST FREEZER INVENTORY RACKS


Models: MDF-DU900V-PE | MDF-C8V1-PE




MDF-DU900V-PE



Volume 845 Liter
Columns x rows 7 x 4
Total rack capacity 28



MDF-C8V1-PE



Volume 84 Liter
Columns x rows 3 x 2
Total rack capacity 6

ALUMINIUM RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU900V-PE										
with trays	2 inch	14 x HCS-5584 + 14 x HCS-6564	7x2 + 7x2	616	140	560	290/339	130	133	52
side opening	2 inch	14 x NIR-220U + 14 x NIR-224U	7x2 + 7x2	616	139	559	279/334	130	133	52
with trays	3 inch	14 x HCS-4804 + 14 x HCS-3804	7x2 + 7x2	392	140	560	340/279	130	133	75
side opening	3 inch	14 x NIR-316U + 14 x NIR-312U	7x2 + 7x2	392	139	559	324/279	135	135	75
MDF-C8V1-PE										
side openings	2 inch	6 x NIR-207C	3x2	42	142	141	403	133	133	53
side openings	3 inch	6 x NIR-305C	3x2	30	142	141	403	133	133	75

STAINLESS STEEL RACK SOLUTIONS

Vertical rack type	Box type	Rack/quantity Stainless steel	Freezer layout (Columns x Rows)	Total boxes	Rack dimensions*			Maximum box dimensions		
					Width	Depth	Height	Footprint of box max width*	Lid of box max width*	Box height max height*
MDF-DU900V-PE										
with trays	2 inch	28 x SDR-624-N	7x4	672	139.45	565.4	325.12	134	137	52
side opening	2 inch	28 x SUR-624-N	7x4	384	139.7	569.72	320.29	136	137	52
with trays	3 inch	14 x SDR-334-N + 14 x SDR-434-N	7x2 + 7x2	392	139.45	565.4	250.69 / 320.29	136	137	78
side opening	3 inch	14 x SUR-334-N + 14 x SUR-434-N	7x2 + 7x2	392	139.7	569.72	244.85 / 320.29	136	137	78
MDF-C8V1-PE										
side openings	2 inch	6 x SCR-072-N	3x2	42	139.7	144	397	136	142	54
side openings	3 inch	6 x SCR-053-N	3x2	30	139.7	144	414.78	136	142	75

* Unit: mm



HCS-5584



SUR-334-N






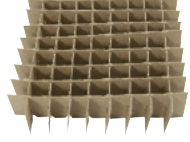

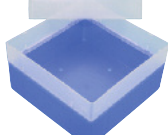
NIR-207C



SCR-072-N

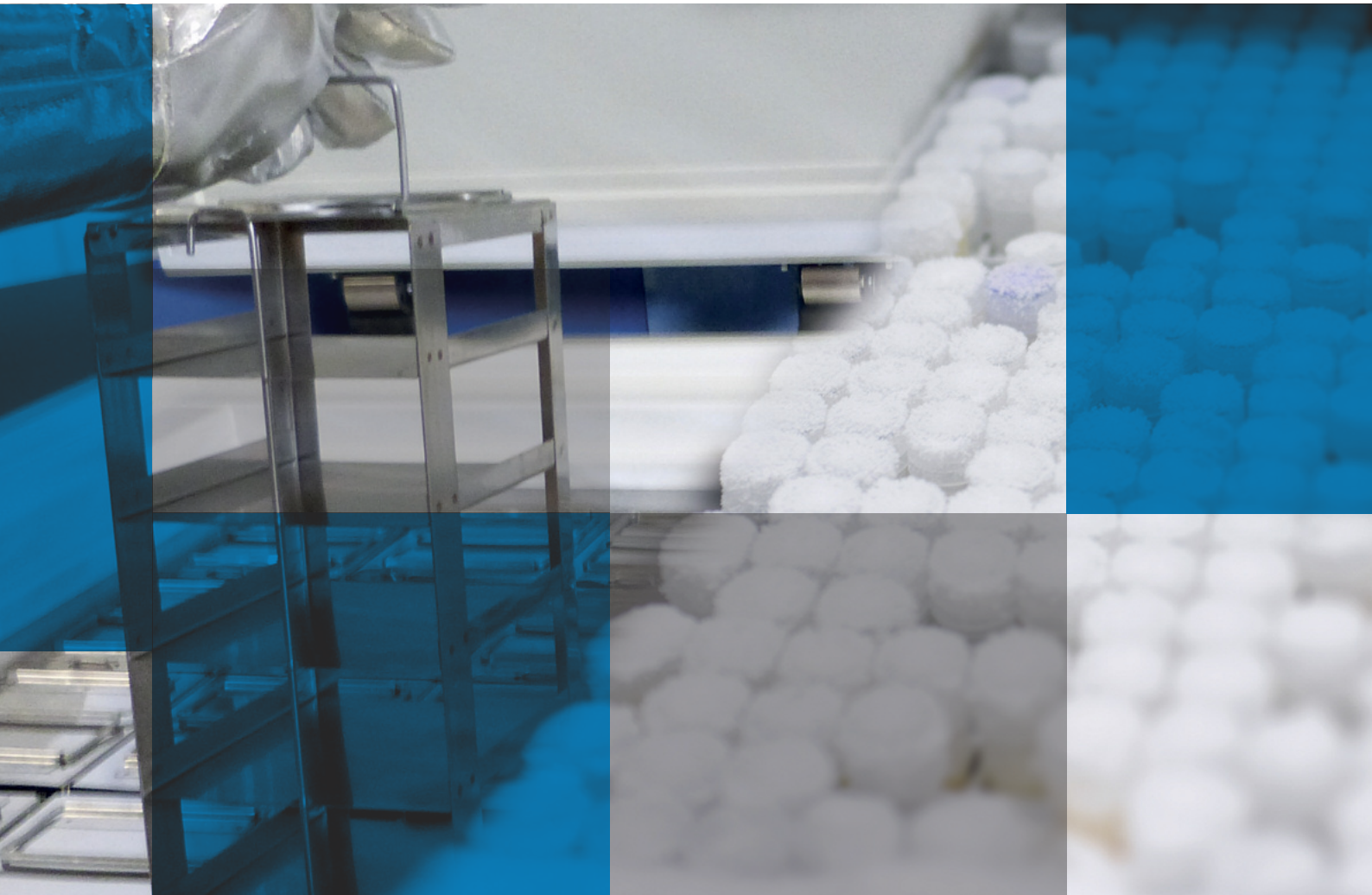
INVENTORY BOXES, DIVIDERS AND ACCESSORIES

PHCbi offers additional inventory boxes and dividers. Boxes are white, water-repellent fiberboard. Cell dividers are water-repellent fiberboard. Other boxes are available upon request.

		W x D x H	
B2C-S100	2" cardboard box with 100 cell divider	134 mm x 134 mm x 51 mm	
B3C-S100	3" cardboard box with 100 cell divider	134 mm x 134 mm x 77 mm	
B2C-S81	2" cardboard box with 81 cell divider	134 mm x 134 mm x 51 mm	
B3C-S81	3" cardboard box with 81 cell divider	134 mm x 134 mm x 77 mm	
B2C	2" cardboard box only	134 mm x 134 mm x 51 mm	
B3C	3" cardboard box only	134 mm x 134 mm x 77 mm	
D81	81 cell divider for cardboard box	124 mm x 124 mm x 32 mm	
D64	64 cell divider for cardboard box	124 mm x 124 mm x 32 mm	
PA-1 ¹⁾	2" polypropylene box	132.5 mm x 132.5 mm x 45 mm (box including lid)	
PA-2 ²⁾	3" polypropylene box	132.5 x 132.5 mm x 70 mm (box including lid)	

Capacity per box may vary with type of vial used. Please confirm with your sales specialist the best solution.

¹⁾ A variety of fixed grids can be chosen (none / 49 / 64 / 81 cells) ²⁾ A variety of fixed grids can be chosen (none / 49 / 81 cells)



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