PHCbi



INVENTORY SYSTEMS

FOR ULTRA-LOW TEMPERATURE FREEZERS

Organizing the space in your freezer can help you to make your work more efficient. Optimize and simplify access to stored materials with PHCbi inventory racks suitable for your application.

Rack Solutions for:

VIP ECO ULT Freezers | VIP ECO SMART ULT Freezers
FrostLess ULT Freezers | TwinGuard ECO ULT Freezers
TwinGuard ULT Freezers | VIP ULT Freezers
PRO ULT Freezers | Cryogenic ULT Freezers

PHCBI DOMINIQUE DUTSCHER SAS

PHC Europe
A Member of PHC Group

www.phchd.com/eu/biomedical



DOMINIQUE DUTSCHER SAS

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 rack 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 capacity within the freezer's volume and 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.
- Custom made frames, drawers or any other storage solution are available upon request.









DOMINIQUE DUTSCHER SAS

UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-DU502VH-PE | MDF-DU502VHW-PE | MDF-DU503VH-PE | MDF-DU702VH-PE | MDF-DU702VHW-PE
MDF-703VH-PE | MDF-DU901VHL-PE



Example with HCS-6564SB

MDF-DU502VH-PE
MDF-DU503VH-PE

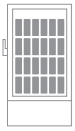


Volume	528 Liter
Columns x rows	4 x 4
Total rack capacity	16



Example with HCS-6564ST

MDF-DU702VH-PE
MDF-DU703VH-PE

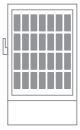


Volume	729 Liter
Columns x rows	6 x 4
Total rack capacity	24



Example with HCS-6564ST

MDF-DU901VHL-PE



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

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 / MDF-DU502VHW-PE / MDF-DU503VH-PE										
with trays	2 inch	4 x HCS-296	2x2	384	280	560	685	133	133	53
with trays	2 inch	16 x HCS-6564SB	4x4	384	140	560	339	133	133	53
side opening	2 inch	16 x NIR-224U	4x4	384	139	559	334	135	135	53
with trays	3 inch	16 x HCS-4804	4x4	256	140	560	320	133	133	75
side opening	3 inch	16 x NIR-316U	4x4	256	139	560	334	135	135	75
MDF-DU702VH-PE / MDF-DU702VHW-PE / MDF-703VH-PE										
with trays	2 inch	6 x HCS-296	3x2	576	280	560	685	133	133	53
with trays	2 inch	24 x HCS-6564SB	6x4	576	140	560	339	133	133	53
side opening	2 inch	24 x NIR-224U	6x4	576	139	559	334	135	135	53
with trays	3 inch	24 x HCS-4804	6x4	384	140	560	320	133	133	75
side opening	3 inch	24 x NIR-316U	6x4	384	139	560	334	135	135	75
MDF-DU901VHL-PE										
with trays	2 inch	14 x HCS-5584SB + 14 x HCS-6564SB	7x2 + 7x2	616	140	560	285/339	133	133	53
side opening	2 inch	14 x NIR-220U + 14 x NIR-224U	7x2 + 7x2	616	139	559	285/334	135	135	53
with trays	3 inch	14 x HCS-4804 + 14 x HCS-3804	7x2 + 7x2	392	140	560	320/279	133	133	75
side opening	3 inch	14 x NIR-316U + 14 x NIR-312U	7x2 + 7x2	392	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-DU502VH-PE / MDF-DU502VHW-PE / MDF-DU503VH-PE										
with trays	2 inch	16 x HCS-6564ST	4x4	384	140	560	339	136	136	54
side opening	2 inch	16 x NIR-224UST	4x4	384	140	565	339	136	136	54
with trays	3 inch	16 x HCS-4804ST	4x4	256	140	560	320	136	136	78
side opening	3 inch	16 x NIR-316UST	4x4	256	140	565	339	136	136	75
MDF-DU702VH-PE / MDF-DU702VHW-PE / MDF-703VH-PE										
with trays	2 inch	24 x HCS-6564ST	6x4	576	140	560	339	136	136	54
side opening	2 inch	24 x NIR-224UST	6x4	576	140	565	339	136	136	54
with trays	3 inch	24 x HCS-4804ST	6x4	384	140	560	320	136	136	78
side opening	3 inch	24 x NIR-316UST	6x4	384	140	565	339	136	136	75
MDF-DU901VHL-PE										
with trays	2 inch	28 x HCS-6564ST	7x4	672	140	560	339	136	136	52
side opening	2 inch	28 x NIR-224/324SS	7x4	672	140	565	324	136	136	52
with trays	3 inch	14 x HCS-3804ST + 14 x HCS-4804ST	7x2 + 7x2	392	140	560	240/320	136	136	75
side opening	3 inch	14 x NIR-312UST + 14 x NIR-316UST	7x2 + 7x2	392	140	565	235/339	136	136	75

* Unit: mm



HCS-296



NIR-224U



HCS-6564ST

DOWNLOAD DUTSCHER SAS

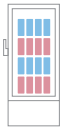
UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-DU500ZH-PE | MDF-DU700ZH-PE



Example with NIR-220U + NIR-224U

MDF-DU500ZH-PE

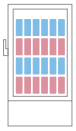


Volume	525 Liter
Columns x rows	4x2 + 4x2
Total rack capacity	16



Example with NIR-220U + NIR-224U

MDF-DU700ZH-PE



Volume	725 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-DU500ZH-PE										
with trays	2 inch	8x HCS-5584SB + 8x HCS-6564SB	4x2 + 4x2	352	139	560	285/339	133	133	53
side opening	2 inch	8x NIR-220U + 8x NIR-224U	4x2 + 4x2	352	140	560	285/339	135	135	53
with trays	3 inch	8x HCS-3964 + 8x HCS-4854	4x2 + 4x2	224	139	560	285/339	133	133	90/80
side opening	3 inch	8x NIR-312U + 8x NIR-316U	4x2 + 4x2	224	140	560	285/339	135	135	90/80
with trays	2 inch	4x HCS-519	2x2	352	280	560	640	133	133	53
MDF-DU700ZH-PE										
with trays	2 inch	12x HCS-5584SB + 12x HCS-6564SB	6x2 + 6x2	528	139	560	285/339	133	133	53
side opening	2 inch	12x NIR-220U + 12x NIR-224U	6x2 + 6x2	528	140	560	285/339	135	135	53
with trays	3 inch	12x HCS-3964 + 12x HCS-4854	6x2 + 6x2	336	139	560	285/339	133	133	90/80
side opening	3 inch	12x NIR-312U + 12x NIR-316U	6x2 + 6x2	336	140	560	285/339	135	135	90/80
with trays	2 inch	6x HCS-519	3x2	528	280	560	640	133	133	53

STAINLESS STEEL 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-DU500ZH-PE										
with trays	2 inch	8x HCS-6564ST + 8x HCS-5584ST	4x2 + 4x2	352	140	560	339/285	136	136	54
side opening	2 inch	8x NIR-224UST + 8x NIR-220UST	4x2 + 4x2	352	140	565	339/285	136	136	54
with trays	3 inch	8x HCS-4804ST + 8x HCS-3804ST	4x2 + 4x2	224	140	560	320/240	136	136	78
side opening	3 inch	8x NIR-316UST + 8x NIR-312UST	4x2 + 4x2	224	140	565	339/245	136	137	75
MDF-DU700ZH-PE										
with trays	2 inch	12x HCS-6564ST + 8x HCS-5584ST	6x2 + 6x2	528	140	560	339/285	136	136	54
side opening	2 inch	12x NIR-224UST + 8x NIR-220UST	6x2 + 6x2	528	140	565	339/285	136	136	54
with trays	3 inch	12x HCS-4804ST + 8x HCS-3804ST	6x2 + 6x2	336	140	560	320/240	136	136	78
side opening	3 inch	12x NIR-316UST + 8x NIR-312UST	6x2 + 6x2	336	140	565	339/245	136	136	75

* Unit: mm

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HCS-6564SB



NIR-312U



NIR-316U

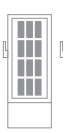
UPRIGHT FREEZER INVENTORY RACKS

Models: MDF-DU302VX-PE | MDF-DU303VXH-PE | MDF-DU502VX-PE | MDF-DU702VX-PE | MDF-DU503VXH-PE | MDF-DU703VXH-PE |



Example with HCS-5584ST

MDF-DU303VXH-PE



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



Example with HCS-6564SB

MDF-DU503VXH-PE

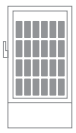


Volume	528 Liter
Columns x rows	4 x 4
Total rack capacity	16



Example with HCS-6564ST

MDF-DU703VXH-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 / MDF-DU303VXH-PE										
with trays	2 inch	12 x HCS-5584SB	3x4	240	140	565	285	133	133	53
side opening	2 inch	12 x NIR-220U	3x4	240	139	559	285	135	135	53
with trays	3 inch	12 x HCS-32-3804/143	3x4	144	143	560	232	133	133	71
side opening	3 inch	12 x NIR-312U	3x4	144	139	559	285	135	135	88
MDF-DU502VX-PE / MDF-DU503VXH-PE										
with trays	2 inch	4 x HCS-296	2x2	384	280	560	685	133	133	53
with trays	2 inch	16 x HCS-6564SB	4x4	384	140	560	339	133	133	53
side opening	2 inch	16 x NIR-224U	4x4	384	139	559	334	135	135	53
with trays	3 inch	16 x HCS-4804	4x4	256	140	560	320	133	133	75
side opening	3 inch	16 x NIR-316U	4x4	256	139	560	334	135	135	75
MDF-DU702VX-PE / MDF-DU703VXH-PE										
with trays	2 inch	6 x HCS-296	3x2	576	280	560	685	133	133	53
with trays	2 inch	24 x HCS-6564SB	6x4	576	140	560	339	133	133	53
side opening	2 inch	24 x NIR-224U	6x4	576	139	559	334	135	135	53
with trays	3 inch	24 x HCS-4804	6x4	384	140	560	320	133	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 HCS-5584ST	3x4	240	140	560	285	136	136	54
side opening	2 inch	12 x NIR-220UST	3x4	240	140	565	285	136	136	54
with trays	3 inch	12 x HCS-3804ST	3x4	144	140	560	240	136	136	78
side opening	3 inch	12 x NIR-312UST	3x4	144	140	565	235	136	136	78
MDF-DU502VX-PE / MDF-DU503VXH-PE										
with trays	2 inch	16 x HCS-6564ST	4x4	384	140	565	339	136	136	54
side opening	2 inch	16 x NIR-224UST	4x4	384	140	565	339	136	136	54
with trays	3 inch	16 x HCS-4804ST	4x4	256	140	560	320	136	136	78
side opening	3 inch	16 x NIR-316UST	4x4	256	140	565	339	136	136	75
MDF-DU702VX-PE / MDF-DU703VXH-PE										
with trays	2 inch	24 x HCS-6564ST	6x4	576	140	565	339	136	136	54
side opening	2 inch	24 x NIR-224UST	6x4	576	140	565	339	136	136	54
with trays	3 inch	24 x HCS-4804ST	6x4	384	140	560	320	136	136	78
side opening	3 inch	24 x NIR-316UST	6x4	384	140	565	339	136	136	75

* Unit: mm

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NIR-224U



NIR-316U



HCS-6564SB

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-5584SB	3x2 + 3x2	216	140	560/565	232/285	133	133	53
side opening	2 inch	6 x NIR-216U + 6 x NIR-220U	3x2 + 3x2	216	139	559	232/285	135	135	53
with trays	3 inch	12 x HCS-32-3804/143	3x4	144	143	560	232	133	133	71
side opening	3 inch	12 x NIR-312U	3x4	144	139	559	285	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 HCS-4584ST + 6 x HCS-5584ST	3x2 + 3x2	216	140	565/ 560	235 / 290	136	136	53
side opening	2 inch	6 x NIR-216UST + 6 x NIR-220UST	3x2 + 3x2	216	140	565	235 / 285	136	136	54/53
with trays	3 inch	12 x HCS-3804ST	3x4	144	140	560	240	136	136	75
side opening	3 inch	12 x NIR-312UST	3x4	144	140	565	235	136	136	75

* Unit: mm

DOMINIQUE DUTSCHER SAS



NIR-220U



HCS-5584SB



HCS-3804ST

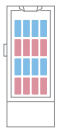
UPRIGHT FREEZER INVENTORY RACKS

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



Example with 8x HCS-3804ST + 8x HCS-4804ST

MDF-U55V-PE

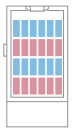


Volume	519 Liter
Columns x rows	4x2 + 4x2
Total rack capacity	16



Example with 12x HCS-3804ST+ 12x HCS-4804ST

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	133	53
with trays	2 inch	8 x HCS-5584SB + 8 x HCS-6564SB	4x2 + 4x2	352	140	560	285/339	133	133	53
side opening	2 inch	8 x NIR-220U + 8 x NIR-224U	4x2 + 4x2	352	139	559	279/334	135	135	53
with trays	3 inch	8 x HCS-4804 + 8 x HCS-3804	4x2 + 4x2	224	140	560	340/279	133	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	133	53
with trays	2 inch	12 x HCS-5584SB + 12 x HCS-6564SB	6x2 + 6x2	528	140	560	285/339	133	133	53
side opening	2 inch	12 x NIR-220U + 12 x NIR-224U	6x2 + 6x2	528	139	559	285/334	135	135	53
with trays	3 inch	12 x HCS-4804 + 12 x HCS-3804	6x2 + 6x2	336	140	560	340/279	133	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 HCS-5584ST + 8 x HCS-6564ST	4x2 + 4x2	352	140	565	285 / 339	136	136	53 /54
side opening	2 inch	8 x NIR-220UST + 8 x NIR-224/324SS	4x2 + 4x2	352	140	565	285 / 324	136	136	54 /52
with trays	3 inch	8 x HCS-3804ST + 8 x HCS-4804ST	4x2 + 4x2	224	140	560	240 / 320	136/133	136/133	75
side opening	3 inch	8 x NIR-312UST + 8 x NIR-316UST	4x2 + 4x2	224	140	565	240 / 339	136	136	75
MDF-U76V-PE										
with trays	2 inch	24 x HCS-6564ST	6x4	576	140	565	339	136	136	54
side opening	2 inch	24 x NIR-224/324SS	6x4	384	140	565	324	136	136	52
with trays	3 inch	12 x HCS-3804ST + 12 x HCS-4804ST	6x2 + 6x2	336	140	560	240 / 320	136/133	136/133	75
side opening	3 inch	12 x NIR-312UST + 8 x NIR-316UST	6x2 + 6x2	336	140	565	240 / 339	136	136	75

* Unit: mm

DOMINIQUE DUTSCHER SAS



HCS-4804



HCS-519



NIR-316U

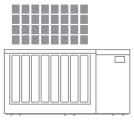
CHEST FREEZER INVENTORY RACKS

Models: MDF-DC500VX-PE | MDF-DV700VX-PE | MDF-C8V1-PE



MDF-DC500VX-PE

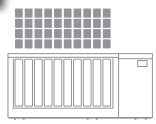
Volume	575 Liter
Columns x rows	8 x 4
Total rack capacity	32





MDF-DC700VX-PE

Volume	715 Liter
Columns x rows	10 x 4
Total rack capacity	40





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-DC500VX-PE										
side opening	2 inch	32 x NIR-213C	8x4	416	139	137	745	133	133	54
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	54
side opening	3 inch	40 x NIR-309C	10x4	360	139	137	745	133	133	75
MDF-C8V1-PE										
side openings	2 inch	6 x NIR-207C	3x2	42	142	141	403	133	133	54
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-DC500VX-PE										
side opening	2 inch	32 x NIR-213CST	8x4	416	141	142	735	136	136	54
side opening	3 inch	32 x NIR-309CST	8x4	288	141	142	745	136	136	80
MDF-DC700VX-PE										
side opening	2 inch	40 x NIR-213CST	10x4	520	141	142	735	136	136	54
side opening	3 inch	40 x NIR-309CST	10x4	360	141	142	745	136	136	80
MDF-C8V1-PE										
side openings	2 inch	6 x NIR-207CST	3x2	42	141	142	403	136	136	54
side openings	3 inch	6 x NIR-305CST	3x2	30	141	142	403	136	136	75

* Unit: mm

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NIR-213C



NIR-309C



NIR-309CST

CHEST FREEZER INVENTORY RACKS

Models: MDF-DC102VH-PE | MDF-DC202VH-PE



MDF-DC102VH-PE

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



MDF-DC202VH-PE

Volume	180 Liter
Columns x rows	5x3 + 2
Total rack capacity	17



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-DC102VH-PE										
side opening	2 inch	6 x NIR-207C	3x2	42	142	141	403	133	133	54
ladder type	2 inch	21 x VC-660/3ST	6x3 + 3	63	58	133	424	133	133	53
side opening	3 inch	6 x NIR-305C	3x2	30	142	141	403	133	133	75
side opening + ladder type	2 inch	6 x NIR-207C + 5x VC-660/3ST	3x2 + 5	57	142/58	141/133	403/424	133	133	54/53
MDF-DC202VH-PE										
side opening	2 inch	17 x NIR-207C	5x3 + 2	119	142	141	403	133	133	54
ladder type	2 inch	47 x VC-660/3ST	13x3 + 8	141	58	133	424	133	133	53
side opening	3 inch	17 x NIR-305C	5x3 + 2	85	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-DC102VH-PE										
side opening	2 inch	6 x NIR-207CST	3x2	42	141	142	403	136	136	54
side opening	3 inch	6 x NIR-305CST	3x2	30	141	142	403	136	136	75
MDF-DC202VH-PE										
side opening	2 inch	17 x NIR-207CST	5x3 + 2	119	141	142	403	136	136	54
side opening	3 inch	17 x NIR-305CST	5x3 + 2	85	141	142	403	136	136	75

* Unit: mm

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NIR-305C



NIR-207C



VC-660/3ST

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 VC096/10	5x3	150	138	142	560	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 VC096/10SS	3x3	90	142	143	560	136	136	53
side opening	3 inch	9 x NIR-306CST	3x3	54	141	142	516	136	136	80
MDF-C2156VAN-PE										
side opening	2 inch	15 x VC096/10SS	5x3	150	141	143	560	136	136	53
side opening	3 inch	15 x NIR-307CST	5x3	105	141	142	590	136	136	80

* Unit: mm

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NIR-209C



VC096/10SS

HORIZONTAL DRAWER RACKS

Models: MDF-DU302VX-PE | MDF-DU303VXH-PE DF-DU502VH(W)-PE | MDF-DU502VX-PE | MDF-DU503VH-PE | MDF-DU503VXH-PE MDF-DU500ZH-PE | MDF-DU702VH(W)-PE | MDF-DU702VX-PE | MDF-DU703VH-PE | MDF-DU703VXH-PE | MDF DU 700ZH-PE | MDF-DU901VHL-PE | MDF-U33V-PE | MDF-DU300H-PE | MDF-U55V-PE | MDF-U76V-PE



Example with HDR-220

MDF-DU503VH-PE

Volume	528 Liter
Columns x rows	4 x 2
Total rack capacity	8



Example with 6 x HDR-218 + 6 x HDR-220

MDF-DU700ZH-PE

Volume	725 Liter
Columns x rows	6 x 4
Total rack capacity	12



Example with HDR-230H + HDR-232H

MDF-DU702VX-PE

Volume	729 Liter
Columns x rows	6 x 4
Total rack capacity	12

ALUMINIUM RACK SOLUTIONS**

Horizontal Drawer Rack	Rack/quantity Aluminium	Freezer layout (Columns x Rows)	Rack dimensions* Width	Depth	Height	Drawer Quantity	Drawer Dimensions* Width	Depth	Height
MDF-DU302VX-PE I MDF-DU303VXH-PE									
with drawers	8 x HDR-302/2	2 x 4 HDR-302/2	225	560	280	2	215	555	130
with drawers	8 x HDR-302/3	2 x 4 HDR-302/3	225	560	280	3	215	555	80
MDF-DU502VH-PE | MDF-DU502VX-PE | MDF-DU503VH-PE | MDF-DU503VXH-PE									
with drawers	8 x HDR-220	2 x 4 HDR-220	280	560	339	2	270	555	155
with drawers	8 x HDR-224	2 x 4 HDR-224	280	560	339	3	270	555	95
MDF-DU500ZH-PE									
with drawers	4 x HDR-218 + 4 x HDR-220	2 x 2 HDR-218 + 2 x 2 HDR-220	280	560	285/339	2	270	555	141/167
MDF-DU702VH-PE | MDF-DU702VX-PE | MDF-DU703VXH-PE									
with drawers	8 x HDR-216H	2 x 4 HDR-216H	420	560	339	2	410	555	155
with drawers	12 x HDR-220	3 x 4 HDR-220	280	560	339	2	270	555	155
with drawers	12 x HDR-224	3 x 4 HDR-224	280	560	339	3	270	555	95
MDF-DU-700ZH-PE									
with drawers	6 x HDR-218 + 6 x HDR-220	2 x 3 HDR-218 +2 x 3 HDR-220	280	560	285/339	2	270	555	141/167
MDF-DU901VHL-PE									
with drawers	6 x HDR-230H + 6 x HDR-232H	3 x 2 HDR-230H + 3 x 2 HDR-232H	325	560	290/339	2	315	555	135/155
with drawers	6 x HDR-334H + 6 x HDR-336H	3 x 2 HDR-334H + 3 x 2 HDR-336H	325	560	290/339	3	315	555	80/95
MDF-U33V-PE | MDF-DU300H-PE									
with drawers	4 x HDR-302/2 + 4 x HDR-33/2/230	2 x 2 HDR-302/2 + 2 x 2 HDR-33/2/230	225	560	280/230	2	215	555	130/110
with drawers	4 x HDR-302/3 + 4 x HDR-33/3/230	2 x 2 HDR-302/3 + 2 x 2 HDR-33/3/230	225	560	280/230	3	215	555	80/70
MDF-U55V-PE									
with drawers	4 x HDR-218 + 4 x HDR-220	2 x 2 HDR-218 + 2 x 2 HDR-220	280	560	285/339	2	270	555	141/155
with drawers	4 x HDR-222 + 4 x HDR-224	2 x 2 HDR-222 + 2 x 2 HDR-224	280	560	290/339	3	270	555	80/95
MDF-U76V-PE									
with drawers	4 x HDR-214H + 4 x HDR-216H	2 x 2 HDR-214H + 2 x 2 HDR-216H	420	560	285/339	2	410	555	135/155
with drawers	6 x HDR-218 + 6 x HDR-220	3 x 2 HDR-218 + 3 x 2 HDR-220	280	560	285/339	2	270	555	141/155
with drawers	6 x HDR-222 + 6 x HDR-224	3 x 2 HDR-222 + 3 x 2 HDR-224	280	560	290/339	3	270	555	80/95

** Configurations for full freezers. Combinations with HDR racks and other inventory racks are possible upon request.

* Unit: mm

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HDR-216H

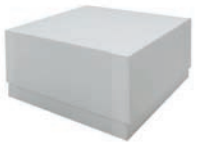
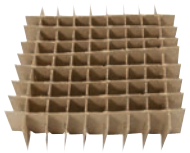
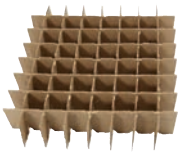
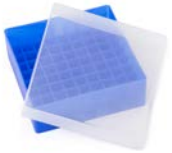


HDR-220


PHCbi
DOMINIQUE DUTSCHER SAS

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	
NU-A1/100	2" cardboard box with 100 cell divider	133 mm x 133 mm x 50 mm	
NU-A2/100	3" cardboard box with 100 cell divider	133 mm x 133 mm x 75 mm	
NU-A1/81	2" cardboard box with 81 cell divider	133 mm x 133 mm x 50 mm	
NU-A2/81	3" cardboard box with 81 cell divider	133 mm x 133 mm x 75 mm	
NU-A1	2" cardboard box only	133 mm x 133 mm x 50 mm	
NU-A2	3" cardboard box only	133 mm x 133 mm x 75 mm	
NU-DIV81	81 cell divider for cardboard box	124 mm x 124 mm x 30 mm	
NU-DIV64	64 cell divider for cardboard box	124 mm x 124 mm x 30 mm	
PA-1[1)]	2" polypropylene box	133 x 133 x 52 mm (box including lid)	
PA-45[2)]	45 mm polypropylene box	133 x 133 x 45 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)

Other boxes dimensions, as well as 136 x 136 mm. cardboard boxes can be ordered upon request. Please contact us for further information

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cryokit®
CRYOGENIC PROTECTION

CRYOKIT GLOVE 401

CRYOKIT GLOVE is a fully waterproof glove to protect the hand and the arm in operations that involve the use of Liquid Nitrogen (or other cryogenic liquids and gases). Made with specially designed composite materials for this application, it keeps the hands warm and dry even for long periods of use. The CRYOKIT GLOVES are proven effective to protect the hands and arms, by contact with Liquid Nitrogen (-195.82 °C) for one minute and maintain their flexibility (RCT Test method). The multilayered construction allows a high level of thermal protection, flexibility and dexterity at -200 °C.

SAFETY

Indicated for all work in the presence of Liquid Nitrogen or other liquids and gases, to prevent contact of cold and burns in the event of leakage of the cryogenic liquid.

SPECIAL COMPOSITE MATERIALS

The glove is made entirely with specially coupled composite materials. On the inside there is an integral membrane which allows perspiration but does not allow liquids to penetrate inside.

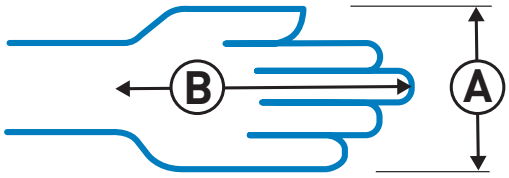
COLD PROTECTION

The cold protection is ensured by an inner lining made of soft fleece, which is also coupled with polyester.



Gloves Sizes in accordance with EN 420

It is very important that the correct glove size is worn and clear guidance is provided to ensure that sizing is right first time. Two measurements are required to establish the correct size - hand diameter **(A)** and length **(B= distance between wrist and tip of middle finger)**.



Measurements are given in mm.

The safety gloves	CRYOKIT 401				
Item Number	KO-CRYO-KIT401-7	KO-CRYO-KIT401-8	KO-CRYO-KIT401-9	KO-CRYO-KIT401-10	KO-CRYO-KIT401-11
Gloves sizes in accordance with EN 420	7	8	9	10	11
Equivalent gloves sizes	S	M	L	XL	XXL
Measurements in mm					
Glove length	400	400	400	400	400
Hand diameter (A)	178	203	229	254	279
Hand length (B)	171	182	192	204	215

DOCUMENT QUE DUTSCHER SAS



DOMINIQUE DUTSCHER SAS

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