

# Технические характеристики

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# Laboratory Freezer

Options






## Temperature Recording

Temperature Recorders for Ultra-Low Temperature Freezers (-150°C/-152°C/-80°C/-86°C)

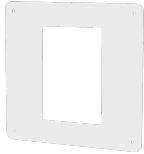
Option model	Description	Applicable product	Photo
MTR-85H	<ul style="list-style-type: none"> <li>·Recording range: -100°C to +50°C</li> <li>·2-month Strip Chart Recorder</li> </ul>	<ul style="list-style-type: none"> <li>·No mounting bracket required: MDF-594, MDF-794</li> <li>·Mounting bracket MDF-S3085 required: MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DC500VX, MDF-DC700VX, MDF-U33V, MDF-U54V, MDF-U55V, MDF-U74V, MDF-DU900V, MDF-DU900VC, MDF-DU300H, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL, MDF-C8V1</li> <li>·Sensor cover MTR-DU700SF required: MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DU900V, MDF-DU900VC, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL</li> <li>·Sensor cover MTR-C8 required: MDF-C8V1, MDF-DU300H</li> </ul>	
MTR-155H	<ul style="list-style-type: none"> <li>·Recording range: -170°C to +30°C</li> </ul>	<ul style="list-style-type: none"> <li>·No mounting bracket required: MDF-1156</li> <li>·Mounting bracket MDF-S30150 required: MDF-C2156VAN</li> </ul>	
MTR-G85A MTR-G85C	<ul style="list-style-type: none"> <li>·Recording range: -100°C to +40°C</li> <li>·1-day/7-day/32-day Circular Chart Recorders</li> </ul>	<ul style="list-style-type: none"> <li>·No mounting bracket required: MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DC500VX, MDF-DC700VX, MDF-U33V, MDF-U54V, MDF-U55V, MDF-U74V, MDF-DU900V, MDF-DU900VC, MDF-DU300H, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL, MDF-C8V1</li> <li>·Sensor cover MTR-DU700SF required: MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DU900V, MDF-DU900V</li> </ul>	 <p>MTR-G85A</p>


		C, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL · <b>Sensor cover MTR-C8 required:</b> MDF-C8V1, MDF-DU300H	
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Temperature Recorders for Biomecial Freezers (-30°C/-40°C)


Option model	DescriptionC	Applicable product	Photo
MTR-4015LH	· <b>Recording range:</b> -40°C to +14C° ·32-day Strip Chart Recorder	· <b>No mounting bracket required:</b> MDF-MU300H, MDF-U334, MDF-U443 · <b>Mounting bracket MPR-S30 require d:</b> MDF-U5312, MDF-U5412, MDF-U5412 H, MDF-U731M, MDF-MU339, MDF-MU5 39, MDF-MU539D, MDF-MU500H · <b>Mounting bracket MDF-S3040 requir ed:</b> MDF-137, MDF-237, MDF-437	
MTR-85H	· <b>Recordingrange:</b> -100°C to +50°C ·2-month Strip Chart Recorder	· <b>No mounting bracket required:</b> MDF-U443	
MTR-G85A MTR-G85C	· <b>Recordingrange:</b> -100°C to +40°C ·1-day/ 7-day/ 32-day Circular Chart Recorder	· <b>Mounting bracket MPR-S7 required:</b> MDF-U5312, MDF-U5412, MDF-U5412 H, MDF-U731M, MDF-MU339, MDF-MU5 39, MDF-MU539D, MDF-MU500H · <b>Mounting bracket MDF-S740 require d:</b> MDF-137, MDF-237, MDF-437 · <b>Mounting bracket MDF-S740T requir ed (for external mounting) :</b> MDF-U334, MDF-MU539D, MDF-MU30 0H	 MTR-G85A

Recorder Mounting Brackets

Option model	Description	Applicable product	Photo
MDF-S30150	For Temp. Recorder MTR-155H	· <b>Ultra-Low Temperature Freezer</b> MDF-C2156VAN	
MDF-S3085	For Temp. Recorder MTR-85H	· <b>Ultra-Low Temperature Freezer</b> MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DC500VX, MDF-DC700 VX, MDF-U33V, MDF-U54V, MDF-U55V, MDF-U74V, MDF-DU900V,	

		MDF-DU900VC, MDF-DU300H, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL, MDF-C8V1	
MPR-S7	For Temp. Recorder MTR-G85A/MTR-G85C	· <b>Biomedical Freezer</b> MDF-U5312, MDF-U5412, MDF-U5412H, MDF-U731M, MDF-MU339, MDF-MU539, MDF-MU539D, MDF-MU500H	 <p>MPR-S30</p>
MDF-S740	For Temp. Recorder MTR-G85A/MTR-G85C	· <b>Biomedical Freezer</b> MDF-137, MDF-237, MDF-437	
MDF-S740T	For Temp. Recorder MTR-G85A/MTR-G85C	· <b>Biomedical Freezer</b> MDF-U334, MDF-MU539D, MDF-MU300H	
MPR-S30	For Temp. Recorder MTR-4015LH	· <b>Biomedical Freezer</b> MDF-U5312, MDF-U5412, MDF-U5412H, MDF-U731M, MDF-MU339, MDF-MU539, MDF-MU539D, MDF-MU500H	
MDF-S3040	For Temp. Recorder MTR-4015LH	· <b>Biomedical Freezer</b> MDF-137, MDF-237, MDF-437	

#### Recording Paper

Option model	Description	Applicable product	Photo
RP-06	For Temp. Recorder MTR-0621LH	See Temperature Recorder table	 <p>RP-06</p>
RP-40	For Temp. Recorder MTR-4015LH	See Temperature Recorder table	
RP-85	For Temp. Recorder MTR-85H	See Temperature Recorder table	
RP-155	For Temp. Recorder MTR-155H	See Temperature Recorder table	
RP-G04	For Temp. Recorder MTR-G04A	See Temperature Recorder table	
RP-G3504	For Temp. Recorder MTR-G3504A	See Temperature Recorder table	
RP-G85	For Temp. Recorder MTR-G85A/G85C	See Temperature Recorder table	

#### Ink Pen

Option model	Description	Applicable product	Photo
PG-R	For Temp. Recorder MTR-G85A/G85C/G04A Red pen x 2pcs	See Temperature Recorder table	


PG-RB	For Temp. Recorder MTR-G3504A Red & Blue x 2pcs each	See Temperature Recorder table	
DF-38FP	For Temp. Recorder MTR-85H	See Temperature Recorder table	

#### Sensor Cover

Option model	Description	Applicable product	Photo
MTR-C8	For Temp. Recorder MTR-85H, MTR-G85A/MTR-G85C	·Ultra-Low Temperature Freezer MDF-C8V1, MDF-DU300H	
MTR-DU700SF	For Temp. Recorder MTR-85H, MTR-G85A/MTR-G85C	·Ultra-Low Temperature Freezer MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU702VX, MDF-DU702VXC, MDF-DU900V, MDF-DU900V C, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VH, MDF-DU702VHL	

## Storage Management

#### Storage Baskets (For Chest type Biomedical Freezer)

Option model	Description	Applicable product	Photo
MDF-13B2	·Set of two ·Outer dimensions (W × D × H): 255 x 420 x 205mm ·Inner dimensions (W × D × H): 210 x 370 x 200mm	·Biomedical Freezer MDF-137, MDF-237	 <p>MDF-13B</p>
MDF-13B3	·Set of three ·Outer dimensions (W × D × H): 255 x 420 x 205mm ·Inner dimensions (W × D × H): 210 x 370 x 200mm	·Biomedical Freezer MDF-137, MDF-237	
MDF-43B2	·Set of two ·Outer dimensions (W × D × H): 275 x 530 x 205mm ·Inner dimensions (W × D × H): 230 x 480 x 200mm	·Biomedical Freezer MDF-437	
MDF-43B3	·Set of three ·Outer dimensions (W × D × H): 275 x 530 x 205mm ·Inner dimensions (W × D × H): 230 x 480 x 200mm	·Biomedical Freezer MDF-437	

Inventory Racks (For Upright Ultra-Low Temperature Freezers)

Option model	Description	Applicable product (Rack capacity)	Photo
IR-220U	<ul style="list-style-type: none"> <li>·<b>Box capacity :</b> 2" box x 20</li> <li>·<b>External Dimensions (W × D × H):</b> 140 × 561 × 277 mm</li> </ul>	MDF-U33V (6), MDF-U54V/MDF-U55V (8), MDF-U74V (12), MDF-DU302VX (12), MDF-DU900V (14), MDF-DU300H (6), MDF-DU500VH (8), MDF-DU700VH/MDF-DU701VH (12)	
IR-224U	<ul style="list-style-type: none"> <li>·<b>Box capacity :</b> 2" box x 24</li> <li>·<b>External Dimensions (W × D × H):</b> 140 × 561 × 331 mm</li> </ul>	MDF-U54V/MDF-U55V (8), MDF-U74V (12), MDF-DU502VX (16), MDF-DU702VX (24), MDF-DU900V (14), MDF-DU500VH (8), MDF-DU700VH/MDF-DU701VH (12), MDF-DU702VH (24)	
IR-312U	<ul style="list-style-type: none"> <li>·<b>Box capacity :</b> 3" box x 12</li> <li>·<b>External Dimensions (W × D × H):</b> 140 × 561 × 277 mm</li> </ul>	MDF-U54V/MDF-U55V (8), MDF-U74V (12)	
IR-316U	<ul style="list-style-type: none"> <li>·<b>Box capacity :</b> 3" box x 16</li> <li>·<b>External Dimensions (W × D × H):</b> 140 × 561 × 331 mm</li> </ul>	MDF-U54V/MDF-U55V (8), MDF-U74V (12), MDF-DU502VX (16), MDF-DU702VX (24), MDF-DU702VH (24)	

Storage Racks (For Upright Ultra-Low Temperature Freezers)




Option model	Description	Applicable product (Rack capacity)	Photo
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Drawers for bottom compartment (For Upright Ultra-Low Temperature Freezers)

Option model	Description	Applicable product (Maximum number of sets)	Photo
MDF-50R	<ul style="list-style-type: none"> <li>·<b>Internal Dimensions (W × D × H):</b> 540 × 483 × 150mm</li> <li>·<b>Material:</b> Stainless steel</li> </ul>	MDF-U54V/U55V (1), MDF-DU502VX (1)	 <p>MDF-30R</p>
MDF-30R	<ul style="list-style-type: none"> <li>·<b>Internal Dimensions (W × D × H):</b> 410 × 482 × 150mm</li> <li>·<b>Material:</b> Stainless steel</li> </ul>	MDF-U33V (1)	

Storage Containers, Baskets (For Biomedical Freezers)

Option model	Description	Applicable product	Photo
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MDF-T07SC	2 baskets are included. 14 baskets are needed to fill the entire cabinet.	MDF-U731M, MDF-U731	
MDF-03SC	·Storage Container x2 pcs / set · <b>Internal Dimensions (W × D × H):</b> 280 x 552 x 157 mm	MDF-MU339(*), MDF-MU339HL (* Storage container x 6pcs are standard accessory of MDF-MU339)	
MDF-05SC	·Storage Container x2 pcs / set · <b>Internal Dimensions (W × D × H):</b> 280 x 552 x 157 mm	MDF-MU539(*), MDF-MU539D(*), MDF-MU539HL, MDF-U549DHL (* Storage container x 12pcs are standard accessory of MDF-MU539 and MDF-MU539D)	

#### Inventory Racks (For Chest type Ultra-Low Temperature Freezers)

Option model	Description	Applicable product (Rack capacity)	Photo
IR-207C	· <b>Box capacity :</b> 2" box x 7 · <b>External Dimensions (W × D × H):</b> 144 × 142 × 405mm	MDF-C8V1 (6)	
IR-209C	· <b>Box capacity :</b> 2" box x 9 · <b>External Dimensions (W × D × H):</b> 144 × 142 × 518mm	MDF-1156 (9)	
IR-210C	· <b>Box capacity :</b> 2" box x 10 · <b>External Dimensions (W × D × H):</b> 144 × 142 × 592mm	MDF-C2156VAN (14)	
IR-213C	· <b>Box capacity :</b> 2" box x 13 · <b>External Dimensions (W × D × H):</b> 144 × 142 × 747mm	MDF-DC500VX (28), MDF-DC700VX (36), MDF-594 (24), MDF-794 (36)	
IR-305C	· <b>Box capacity :</b> 3" box x 5 · <b>External Dimensions (W × D × H):</b> 144 × 142 × 405mm	MDF-C8V1 (6)	







#### Storage Racks (For Chest Freezers)

Option model	Description	Applicable product (Rack capacity)	Photo
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MDF-19SC	<ul style="list-style-type: none"> <li>·Case Dimensions (W × D × H): 207 × 144 × 413mm</li> <li>·Number of Drawers: 3 pcs</li> </ul>	MDF-C8V1 (5)	
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## Backup

### Backup Kits For Ultra-Low Temperature Freezers (-150°C/-152°C/-80°C/-86°C)

Option model	Description	Applicable product	Photo
CVK-UB2	·Liquid CO2 back-up	MDF-U33V, MDF-U54V, MDF-U55V, MDF-U74V, MDF-594, MDF-794	
CVK-UB4	·Liquid CO2 back-up ·Mounting kit: MDF-UBK	MDF-C8V1	
MDF-UB5	·Liquid CO2 back-up	MDF-DC500VX, MDF-DC700VX	
MDF-UB6B	·Liquid CO2 back-up	MDF-DU900V, MDF-DU900VC	
MDF-UB7	·Liquid CO2 back-up	MDF-DU302VX, MDF-DU502VX, MDF-DU502VXC, MDF-DU502VH, MDF-DU502VHL, MDF-DU702VX, MDF-DU702VXC, MDF-DU702VH, MDF-DU702VHL	
CVK-UBN2	·Liquid N2 back-up	MDF-U33V, MDF-U54V, MDF-U55V, MDF-U74V, MDF-594, MDF-794	

### Mounting Backup kit

Option model	Description	Applicable product	Photo
MDF-UBK	for CVK-UB4 Liquid CO2 Back-up Kit	MDF-C8V1	



## Inner Door Configuration

Inner Door Kit For Upright Ultra-Low Temperature Freezers (-150°C/-152°C/-80°C/-86°C)

Option model	Description	Applicable product	Photo
MDF-7ID		MDF-U74V	
MDF-5ID		MDF-U54V, MDF-U55V	
MDF-7ID5	·5 inner doors make 1 set. MDF-7ID5 includes an additional shelf.	MDF-DU702VX, MDF-DU702VXC, MD F-DU702VH, MDF-DU702VHL	
MDF-7ID4	·4 inner doors make 1 set.	MDF-DU702VX, MDF-DU702VXC, MD F-DU702VH, MDF-DU702VHL	
MDF-5ID5	·5 inner doors make 1 set. MDF-5ID5 includes an additional shelf.	MDF-DU502VX, MDF-DU502VXC, MD F-DU502VH, MDF-DU502VHL	
MDF-5ID4	·4 inner doors make 1 set.	MDF-DU502VX, MDF-DU502VXC, MD F-DU502VH, MDF-DU502VHL	

\*Please be aware cooling capacity will be less than specified if small inner doors are installed. Installation of the kit may effect usable storage capacity.

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