-86°C-Freezers

MDF-U32V
MDF-U52V
MDF-U72V

CFC-Free

VIP (Vacuum Insulation Panel)

CPU and Touch Pad

Energy

LED Digital Display

Insulated Inner Doors

Quiet, Reliable Compressor

Power Failure Alarm

Rechargeable Battery

Remote Alarm

Cascade Cooling System

Automatic Alarm System

Air Filter

Service

Casters

Ultra-Low temperature V.I.P.™ Freezer

- Maximised storage capacity with V.I.P.™ technology
- Safe operation with continuous condition monitor Status Alert
- Enhanced security
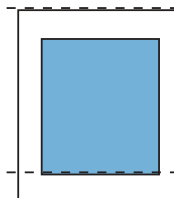- Improved accessibility
- Ergonomic quiet operation

V.I.P.
(Vacuum Insulation Panel)

VIP panel is the innovative insulation component developed and manufactured by Sanyo. VIP panels contain densely packed, open cell foam insulation under vacuum. This configuration dramatically enhances the insulation capability of the freezer while reducing the wall thickness. This in turn provides greater interior volume and structural stability.
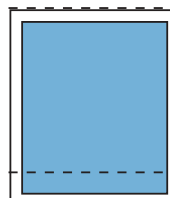
Which freezer will you choose?

Conventional Insulation

Sanyo MDF-U52V With VIP Insulation

Capacity

Insulation

240 ca. 2"boxes

352 ca. 2"boxes

MDF-U72V
728 LITER
528 2" BOXES
280 3" BOXES

MDF-U52V
519 LITER
352 2" BOXES
224 3" BOXES

WHAT MAKES THE SANYO V.I.P. ULTRA LOW FREEZER SPECIAL?
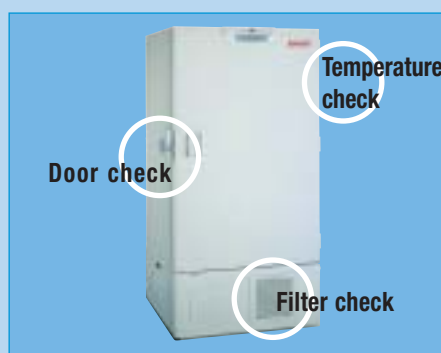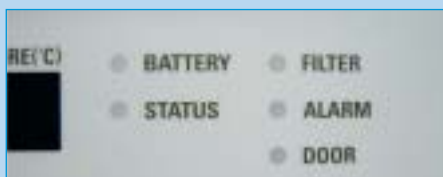
New design
■ **Evolution and Revolution**
Sanyo V.I.P. Evolution Series -86°C ultra-low temperature freezers use patented revolutionary Vacuum Insulation Panels (VIP) that reduces the wall thickness from 14cm to 7cm (5.5" to 2.7") and achieves up to 30% more storage capacity than a conventionally insulated freezer without increasing the footprint.
This series also combines various cutting edge technologies to evolve and enhance user convenience.

Reliability
■ **Status Alert (Condition monitor)**
Monitors ambient and system conditions continuously and notifies of any abnormalities before a problem happens.

Temperature check
Door check
Filter check

■ **Safe Storage**
Super cooling technology with alarm systems ensures accurate storage conditions. Insulated inner doors prevent cool air leakage.

■ **Security**
Along with a standard door lock, the new rugged outer door latch has a hole to allow a padlock to securely protect valuable samples.

Accessibility
■ **Eagle Latch (New)**
A new beak style inner door latch tightly closes the inner door against the freezer frame. It also helps make opening and closing the door smoother.

■ **Large Control Panel**

■ **Multiple Inner Doors (New Option)**
Field-installable insulated multiple inner doors greatly enhance flexibility.
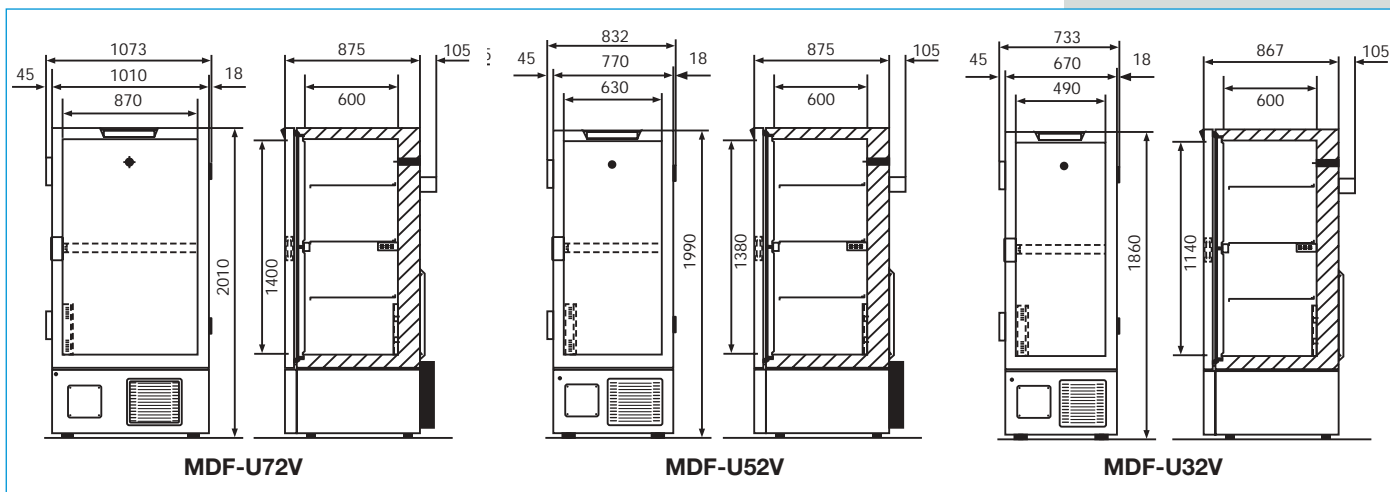Set of 2 doors.
Up to 2 sets can be installed.

35

MDF-U32V
MDF-U52V
MDF-U72V

MDF-U32V
333 LITER
216 2" BOXES
168 3" BOXES

Alarms & Safety functions

Alarm & Safety	Situation	Indication	Buzzer	Safety operation
High temperature alarm	If the chamber temperature is higher than the temperature at which the high temperature alarm is activated.	Alarm lamp flashes. Temperature indicator flashes.	Intermittent tone with 15 minutes delay.	Remote alarm with 15 minutes delay.
Low temperature alarm	If the chamber temperature is lower than the temperature at which the low temperature alarm is activated.	Alarm lamp flashes. Temperature indicator flashes.	Intermittent tone with 15 minutes delay.	Remote alarm with 15 minutes delay.
Power failure alarm	When the power to the unit is disconnected.	Alarm lamp flashes.	Intermittent tone.	Remote alarm.
Filter check	When the condenser filter is clogged.	Filter check lamp lights.	---	---
Auto-return	When there is no key pressing in each setting mode for 90 seconds.	Chamber temperature is displayed.	---	Finishing of each setting mode Remote alarm.
Key lock	When the key lock is "ON".	---	---	Change of setting is disabled.
Sensor abnormality	If the thermal sensor is disconnected.	Alarm lamp is flashed. E01 and chamber temp. are displayed alternately.	Intermittent tone.	Unit keeps continuous running. Remote alarm.
	If the thermal sensor is short-circuited.	Alarm lamp is flashed. E02 and chamber temp. are displayed alternately.	Intermittent tone.	Unit keeps continuous running. Remote alarm.
	If the cascade sensor is disconnected.	Alarm lamp is flashed. E03 and chamber temp. are displayed alternately.	Intermittent tone.	Unit keeps running.

MDF-U72V	**MDF-U52V**	**MDF-U32V**

Specifications

Model	MDF U32V	MDF U52V	MDF U72V
Exterior dimensions wxdxh	670 x 867 x 1860 mm	770 x 875 x 1990 mm	1010 x 875 x2010 mm
Interior dimensions wxdxh	490 x 600 x 1140 mm	630 x 600 x 1380 mm	870 x 600 x 14 mm
Effective capacity	333 l	519 l	728 l
	2"boxes 216 pcs	2"boxes 352 pcs	2"boxes 528 pcs
	3"boxes 168 pcs	3"boxes 224 pcs	3"boxes 280 pcs
Net weight	258 kg	304 kg	345 kg
Interior finish	Painted steel		
Insulation	CFC-free Rigid polyurethane foamed-in-place vacuum insulation panel		
Door	1 with built in latch		
Inner door	2 insulated type with latch		
Shelves	3		
Temperature range	-50°C ~ -86°C (Ambient Temp.30°C)		
Standard Voltage	Voltage	230/240V	230/240V	230/240V
	HZ	50 Hz	50 Hz	50 hz
	Phase	1	1	1
	AMPS	-	-	-
	Breaker	15	15	15
Microprocessor control	Yes		
Temperature alarm	Audible and visual indication		
Filter alarm	Filter check lamp		
Power failure alarm	Audible and visual indication		
Self diagnostic function	Audible and visual indication		
Remote alarm contact	Yes		
Temperature display	Digital display, Door mounted		
Accessories	Key 1 set, Scraper 1 pce		
Refrigerant	HFC		

* Appearance and specification are subject to change without notice.

Options

■ **MTR G85**
   Circular recorder

■ **CVK-UB2**
   CO_2 back-up
   system
■ **CVK-UBN2**
   N_2 back-up system

■ **MDF-50R**
   3 drawers (for MDF U52V)