



BioSafe-MINI

Under-counter ULT Freezer

ANTECH's compact under-counter ULT freezer MDF-86U108 is an ideal solution to store biological materials in a limited space. The freezer size is designed to match laboratory table height, so that it can be put under counter.

BioSafe-MINI adopts high efficiency single compressor cooling system, with reduced energy consumption and lower noise.

TC-300 touch screen smart controller is used. Despite a compact freezer, the functions are complete for medical and laboratory applications, including data storage and USB port for download, high/low temperature alarm, door open alarm, power failure alarm, remote alarm contact, etc. Therefore, MDF-86U108 meets the most rigorous requirements of healthcare and scientific research.



LOW CO₂
EMISSIONS



DOOR
AJAR ALARM



CFC /HCFC
FREE



USB PORT



POWER FAILURE
ALARM



DIRECT
COOLING



SAFETY DOOR
LOCK

-86°C

BioSafe-MINI & chest type



	Model	MDF-86U 108	MDF-86C 118	MDF-86C458	MDF-86C728
Main specifications	Type	Under-counter, upright	Chest	Chest	Chest
	Cooling technology	Single compressor	Single compressor	Cascade cooling	Cascade cooling
	Temperature setting range (°C)	-40~-86	-40~-86	-40~-86	-40~-86
	Climate type	N	N	N	N
	Capacity (L)	88	130	495	746
	2" box storage Qty (Pcs)	60	96	360	585
	Net weight (KGs)	96	98	242	275
	Internal W×D×H (mm)	320×450×610	630×440×470	1310×600×630	1310×740×770
	External W×D×H (mm)	794×676×812	850×740×1023	1930×780×900	1930×997×1035
	Door entrance limit (≥mm)	676	740	780	997
	Cooling type	Direct	Direct	Direct	Direct
	Defrost	Manual	Manual	Manual	Manual
	Refrigerant	Hydrocarbon gas	Hydrocarbon gas	Hydrocarbon gas	Hydrocarbon gas
	Number of compressor	1	1	2	2
Control & display system	Controller	TC-300	TC-300	TC-300	TC-300
	Display	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen
	Password protection	Yes	Yes	Yes	Yes
	Temperature display accuracy	0.1	0.1	0.1	0.1
Power	Power supply (V/Hz)	220V/50Hz, 220V/60Hz 120V/60Hz	220V/50Hz, 220V/60Hz 120V/60Hz	220V/50Hz, 220V/60Hz 120V/60Hz	220V/50Hz, 220V/60Hz 120V/60Hz
	Rated power (W)	450	480	800	980
Data memory & monitoring	USB port	Yes	Yes	Yes	Yes
	Chart recorder/ data logger	Optional	Optional	Optional	Optional
Alarm functions	Visible/audible alarm	Yes	Yes	Yes	Yes
	High/Low temperature	Yes	Yes	Yes	Yes
	Hot condensor	Yes	Yes	Yes	Yes
	Power failure	Yes	Yes	Yes	Yes
	Sensor failure	Yes	Yes	Yes	Yes
	High ambient temperature	Yes	Yes	Yes	Yes
	Door open	Yes	NO	Yes	Yes
	Remote alarm contact	Yes	Yes	Yes	Yes
Accessories	Inner door	2	N/A	2	2
	Casters	Yes	Yes	Yes	Yes
	Test access port	Φ 20mm x 2	Φ 20mm x 2	Φ 20mm x 2	Φ 20mm x 2
	Adjustable shelves	1	N/A	N/A	N/A
	Safety door lock	Yes	Yes	Yes	Yes
	Pressure equalization port	Manual	Manual	Auto x 1 & manual x 1	Auto x 1 & manual x 1
	Freezer rack	Optional	Optional	Optional	Optional
	Rack type (LxH)	3x5	1x8	1x10	1x13
	Rack Qty	4	12	36	45
	CO2/LN2 backup system	Optional	Optional	Optional	Optional
Material	Exterior	Pre-coated steel	Pre-coated steel	Pre-coated steel	Pre-coated steel
	Interior	Pre-coated steel	SUS304	SUS304	SUS304
	Insulation	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	Vacuum insulation panel (VIP)	Yes	Yes	Yes	Yes
	Cabinet insulation thickness (mm)	90	90	90	90
	Outer door thickness (mm)	90	90	90	90
Shipping	Gross weight (KGs)	100	116	278	318
	Packing W×D×H (mm)	850×730×953	930×780×1160	2010×880×1030	2010×1095×1165
	Volume (m ³)	0.59	0.84	1.82	2.56