

CO₂ Back-up System

BS-1 is to ensure optimal security for critical samples stored in Ultra-Low Temperature Freezers. It controls injection of CO₂ into freezer when freezer temperature rises above the preset temperature value. It also reminds users to fill or replace their CO₂ cylinders when pressure is low.



ADVANTAGE

- Compact design, small footprint, can be placed on freezer top
- Temperature display, setting temperature adjustable by user
- Unique low CO₂ alarm, reminding user to change CO₂ cylinder in time
- USA-made ASCO brand ultra-low temperature electromagnetic valve

RELIABILITY

- Stainless steel construction, rust-free, easy cleaning
- Hose & injection tube with sponge cover for insulation
- Rechargeable battery for 36 hours working time

SAFETY

- Valve test button to check whether electromagnetic valve works normally
- High/Low temperature alarm, low battery alarm, low CO₂ alarm
- Stop injection of CO₂ when door opens, protecting user from being injured by liquid CO₂ (need to be connected with ULT freezer door switch).

CO₂ Back-up System

	Model	BS-1
Basic	Climate Class	N
	Cooling Type	Direct Cooling
	Refrigerant	Liquid CO ₂
Performance	Cooling Performance (°C)	-70
	Temperature Range (°C)	-40~70
Control	Controller	Thermostat
	Display	LED
Electrical	Temperature Increment (°C)	1
	Power Supply	AC 100~240V, 50/60Hz
	Power (W)	20
Weight & Dimension	Electrical Current (A)	0.25
	Net/Gross Weight	11.2/13.6kg
		24.7/30lbs
	Exterior Dimension (W*D*H)	200×400×160 (mm)
		7.8×15.7×6.3 (in)
Functions	Packing Dimension (W*D*H)	370×530×330 (mm)
		14.6×20.9×13 (in)
Accessories	High/Low Temperature Alarm	●
	Low Liquid CO ₂ Alarm	●
	Low Battery Alarm	●
	Sensor Failure Alarm	●
	Main Power Failure Alarm	●
	Valve Open Indicator Light	●
	Main Power On Indicator Light	●
	Valve Test Button	●
Accessories	*Hose (connecting backup system & CO ₂ cylinder)	3 meter
	Injection Tube (connecting backup system & freezer)	2 meter



*The specification of the joint connected to the CO₂ cylinder is G 5/8 "