

Stability Refrigerators

BioCold Environmental, producer of environmental rooms and chambers for over 25 years, offers a stability refrigerator designed for laboratory requirements from +4°C to +10°C.

We believe these BioCold chambers offer superior value, reliability, and control. Our microprocessorbased controls and hot gas bypass refrigeration system allow for confident straightline temperature control. BioCold chambers control temperature within ±0.3°C or better.

Thank you for your interest in BioCold refrigerated incubators. Please review the information below to see if we can assist with your environmental chamber needs. In addition to our stability refrigerator series, we also offer chambers for cold storage, insect rearing, and ICH/FDA stability testing, as well as a complete line of prefab walk-in environmental rooms. If your application requires features not listed below, please call to learn about our other product lines.



Model BC72-SV4

BioCold Stability Refrigerator Series

	Model	Cu. Ft.	Doors (Glass)	Shelves	Ship Weight	Electrical	Dimensions L x D x H
STANDARD MODELS	BC26-SV4	26	1, swing	4	325 lb.	115/1/60 hz, 15amp	30 x 29½ x 78¼
	BC35-SV4	35	2, swing	8	410 lb.	115/1/60 hz, 15amp	39½ x 29½ x 78¼
	BC49-SV4	49	2, swing	8	490 lb.	115/1/60 hz, 15amp	54 x 29½ x 78¼
	BC72-SV4	72	3, swing	12	680 lb.	115/1/60 hz, 15amp	78¼ x 29½ x 79¼
CUSTOM MODELS	BC23-SV4	23	1, swing	4	315 lb.	115/1/60 hz, 15amp	27 x 29½ x 78¼
	BC33-SV4	33	2, slide	8	410 lb.	115/1/60 hz, 15amp	39½ x 29½ x 78¼
	BC61-SV4	61	2, slide	8	585 lb.	115/1/60 hz, 15amp	70 x 29½ x 79¼
	BC69-SV4	69	3, slide	12	665 lb.	115/1/60 hz, 15amp	78¼ x 29½ x 79¼

Standard Features

- **Microprocessor-Based Controls.** BioCold insect chambers come standard with a microprocessor-based temperature control with dual digital displays (actual value and set value). Features PID with Fuzzy Logic and Autotune to ensure straight-line temperature control.
- **Continuous Proportional Hot Gas Bypass Refrigeration.** Using rapid cycle solenoid valves with a life of over 10,000,000 cycles, chambers achieve close temperature control without cycling the compressor on and off.
- **7' Power Cord.** For 115/1/60hz connections on a 15-amp dedicated circuit.
- **Slotted Aluminum Shelving Racks.** Each unit comes standard with four slotted aluminum shelves per door. Single door models have 4 shelves; two-door models have 8 shelves; and three-door models come standard with 12 shelves. Additional shelving available upon request.
- **White Vinyl Coated Steel Exterior.**
- **High Efficiency, Self-Closing Glass Door.**
- **White Anodized Aluminum Interior with Stainless Steel Floor.**

Additional Options

- Honeywell 7-day, 10" circular chart recorder for charting temperature
- Paperless data logging system
- Interior GFI duplex or quadruplex outlets
- Digitally-controlled cycling interior outlets (for lights and equipment)
- 1½" access ports
- Additional shelving

Principles of Operation

Temperature Control

Temperatures are maintained using a Hot Gas Bypass Refrigeration System controlled by a dual digital display (set point and actual temperature) microprocessor. This system eliminates the large air temperature over/under-shoot present in competitors' systems that may simply turn the compressor off and on to control temperature. Our temperature sensor reads real time air temperature – not the temperature inside a heatsink (a bottle of glycol, for instance).