Drosophila Incubators

BioCold Drosophila Incubators are designed specifically for rearing flies and other insects, offering exceptional temperature, humidity and lighting control for active experimentation or housing stocks.

Microprocessor Temperature Control

BioCold Drosophila Incubators are equipped with microprocessor-based temperature controllers, each offering dual digital displays (actual value and set value), straightline PID control, audible high/low alarms, and remote alarm connections.

Environmental Conditioning System

BioCold Drosophila Incubators employ thermoelectric cooling, ultrasonic humidification, and a high capacity circulation system to ensure uniform air distribution and exceptional uniformity from top to bottom throughout the chamber.

- Temperature control to within ±0.2°C
- Humidity control to within ±0.5% RH
- Temperature uniformity to within ±0.7°C
- Humidity uniformity to within ±3% RH

Temperature Control System

BioCold incubators use a high capacity solid state (thermoelectric) cooling system to achieve temperatures down to 18°C, cycling low watt density heaters to control temperature. Thermoelectric cooling offers exceptional reliability, completely eliminating refrigeration leaks and compressor failures, with a mean life expectancy of more than 20 years per unit.

Humidity Control System

Ultrasonic humidification provides increased energy efficiency and precision in humidity control compared to traditional steam boilers. Humidity control is available on all incubators, with dial humidistat or digital control options to achieve humidity control of up to ±0.5% RH.

Cabinet Design

Double-wall cabinet construction with foamed-in-place high density urethane insulation (CFC free) provides years of trouble-free operation. Chambers come standard with a stainless steel door, brushed anodized aluminum exterior, NSF-approved white aluminum interior, and stainless steel floor. Chambers are also available in optional stainless steel interior and exterior finishes.

Shelving

Chambers are equipped with heavy-duty vinyl-coated wire shelving able to support up to 200 lbs. of distributed load per shelf. Chambers come standard with four shelves per door section, with additional shelving available up to a maximum of eight shelves per door section.

INCUBATOR FEATURES

Chamber Performance

Temperature Range:	18°C to 32°C
Temperature Control:	±0.2°C
Temperature Sensor:	Type T Thermocouple
Cooling System:	Solid State
Humidity System:	Ultrasonic (optional)
Lighting:	Programmable LED (optional)

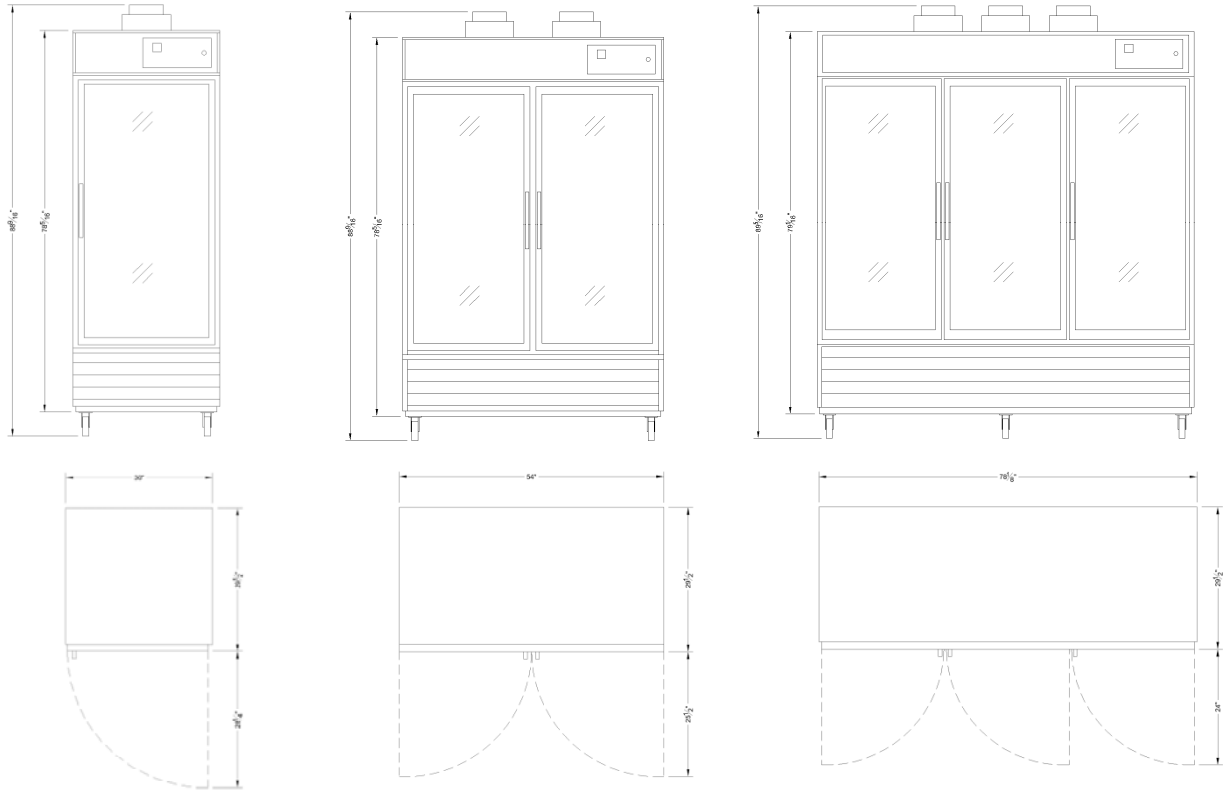
Controls

- Microprocessor PID controls
- Audible/visible alarms
- Remote alarm contacts

Cabinet Construction

- High density urethane insulation
- Double-pane thermal glass door
- Non-chip vinyl laminated steel exterior
- White NSF-approved aluminum interior
- 300 series stainless steel floor
- Low wall plenum
- 4” casters

Chamber Dimensions



BC26-IN BC49-IN BC72-IN

Chamber Specifications

Chamber Model	Doors	Shelves Std/Max	Temperature Range	Ext. Dimensions WxDxH*	Int. Dimensions WxDxH	Electrical Volts/Ø/Amps	Volumetric Uniformity
BC23-IN	1	4/8	+18°C to +32°C	27" x 29⅞" x 88½"	23½" x 24" x 57"	115/1/15	± 0.7°C
BC26-IN	1	4/8	+18°C to +32°C	30" x 29⅞" x 88½"	26½" x 24" x 57"	115/1/15	± 0.7°C
BC35-IN	2	8/16	+18°C to +32°C	39½" x 29⅞" x 88½"	36" x 24" x 57"	115/1/20	± 1.0°C
BC49-IN	2	8/16	+18°C to +32°C	54⅛" x 29⅞" x 88½"	50½" x 24" x 57"	115/1/20	± 1.0°C
BC72-IN	3	12/24	+18°C to +32°C	78⅛" x 29⅞" x 88½"	74½" x 24" x 57"	115/1/20	± 1.0°C

** Overall height includes casters and thermoelectric module(s) which can be removed for passage through standard doorways.*

Chamber Options

BioCold offers a wide range of options and accessories. Please contact us at (636) 349-0300 or sales@biocold.com for any features not shown.

- Access ports (up to 4" dia.)
- Additional shelving
- Circular chart recorder
- Data communications (RS-485 or 4-20mA)
- Digital data logging system
- Email/SMS text alarm notification system
- Extended temperature ranges
- Interior GFCI receptacles
- International voltages
- Light-tight door cover
- Microprocessor RH control (±0.5%)
- Mite decontamination cycle
- Programmable light cycles
- Programmable ramp/soak cycle
- RO/DI water filtration system
- Sliding doors
- Water carboy with tubing