

Incubator-Illuminated, Drosophila

Models: LI-15, Illuminated Growth Chamber, 444 liter

This illuminated growth chamber features dual-program selector dials, which allows control of two temperature conditions and an ON/OFF illumination cycle relative to the program selected. Each system operates independently allowing for simulation of a diurnal cycle, such as an eight hour day cycle of 30°C with light followed by a sixteen hour night cycle of 18°C without light. Forced air circulation ensures the most reproducible test conditions.

The chamber air is gently and continuously circulated at a rate that ensures temperature uniformity of all test samples. The unit is equipped with a hermetically-sealed compressor & an independent over temperature safety controller. It also includes a circuit breaker to protect from electrical overload, five fixed shelves, adjustable leveling feet, a condensation drip tray, a steel exterior with welded seams and corners, and a double-coated, baked enamel finish. In addition, one amp interior outlet allows use of shakers, stirrers, roller bottles or other apparatus.

MRC Diurnal growth chambers are designed for studies requiring day and nighttime simulation.

Units include:

- Day/Night Light and Temperature Control
- Microprocessor Control
- LED Display of Setpoint and Chamber Temperature
- High and Low Limit Temperature Protection
- Interior Electrical Outlet
- Fan Assisted/Forced-Air Circulation
- Hermetically Sealed Compressor



Capacity	444 liter, 18 cu. Ft.
Interior Dimensions in cm	69X46X140.
External Dimensions in cm	86X76X196
Internal Dimensions in cm	850 Liters
Temperature Range	10° to 40°C
Temperature Uniformity	± 0.5°C at 20°C
Electrical Specifications	Volts: 120V/220V Hertz: 50/60Hz Watts: 1350W Amps:
Capacity of Standard B.O.D. Bottles	317
Shelving	6 Supplied

Models: LIFLY-2, Superfly Drosophila Specific Low Temperature Incubator, 577 liter

Energy Saving Features...less impact on the environment, better breeding conditions and longer refrigeration compressor life.

- On and off condenser cycles prevent ice build-up.
- No costly coil replacements from pitting caused by crystallized gas contact with ice.
- Compressor cycling requires less than 25% of the energy required for standard B.O.D. incubators.

The LIFLY Superfly Incubator takes advantage of the range of temperatures acceptable in Drosophila culture.

Standard low temperature incubators are intended for Biological Oxygen Demand (B.O.D.) applications. B.O.D. incubators are designed for wastewater treatment, not Drosophila culture.

B.O.D. testing can tolerate the temperature fluctuations associated with defrost cycling to prevent freezing coils. Fruit Flies cannot tolerate these temperature spikes.

The Superfly Drosophila specific incubator functions within the range of temperatures preferred by fruit flies. Rather than striving to maintain a distinct set point within 0.25°C, the incubator gently fluctuates between 17°C and 19°C. 220V units are available as well. Please contact MRC Manufacturing, Inc. for information about purchasing a 220V LIFLY-2 Drosophila Specific Refrigerated Incubator.

Superfly Functionality

The Superfly Drosophila Specific Incubator elements will only activate if the chamber temperature goes below the lowest acceptable level. The compressor will shut off and rest while the chamber temperature slowly rises in response to a door opening or heat from fan or optional light.



Capacity	577 liter, 20.3 cu. Ft.
Interior Dimensions in cm	67.5X59X145.
External Dimensions in cm	80X80X192.5
Temperature Range	18° to 29°C