

Drosophila Incubator

LDRI-A1 Series



Drosophila Incubator LDRI-A1 Series

Drosophila Incubators are low temperature incubators designed for research scale. These incubators produce a controlled environment operating within refrigerated temperature ranges (5°C to 35°C), and include LED lighting specifically used in rearing of fruit flies.

LDRI-A10

Drosophila Incubator LDRI-A10 is a floor type incubator with 3 side LED illumination system. Heavy-duty 3 pcs shelves have 250 L capacity. Lighting illumination of 0 to 12000 lx provides ideal environment for *Drosophila melanogaster* husbandry (culturing). It includes an RS485 output and an independent over-temperature thermostat and over-temperature alarm.

LDRI-A11

Drosophila Incubator LDRI-A11 is a floor type incubator with 3 side LED illumination system. Heavy-duty 3 pcs shelves have 350 L capacity. Lighting illumination of 0 to 20000 lx provides ideal environment for *Drosophila melanogaster* husbandry (culturing). It includes an RS485 output and an independent over-temperature thermostat and over-temperature alarm.

LDRI-A12

Drosophila Incubator LDRI-A12 is a floor type incubator with 3 side LED illumination system. Heavy-duty 4 pcs shelves have 450 L capacity. Lighting illumination of 0 to 20000 lx provides ideal environment for *Drosophila melanogaster* husbandry (culturing). It includes an RS485 output and an independent over-temperature thermostat and over-temperature alarm.

Features

- 🔄 Designed specifically for Drosophila research
- 🔄 Operates within temperature range preferred by fruit flies typically 5 to 35 °C
- 🔄 Program temperature and light cycles reproduces diurnal cycles that foster breeding
- 🔄 Mechanical convection provides temperature uniformity and effective space utilization
- 🔄 Units are easy to clean and corrosion resistant painted stainless steel interiors
- 🔄 Floor designed compressor with non-vibrational body
- 🔄 Breeze circulation ensures uniform air distribution throughout chamber
- 🔄 Standard RS485 interface and independent over-temperature thermostat with alarm

Applications

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

Drosophila Incubator LDRI-A1 Series

Specifications

Model no	LDRI-A10	LDRI-A11	LDRI-A12
Capacity	250 L	350 L	450 L
Illumination type	3-side illumination		
Illumination source	Fluorescent lamp		
Lighting illumination	0 to 12000 lx	0 to 20000 lx	
Lighting Illumination Control	6 degree relative illumination control		
Temperature range	With illumination: 10 to 50 °C, Without illumination: 4 to 50°C		
Temperature resolution	0.1°C		
Temperature accuracy	± 1°C		
Temperature uniformity	± 1°C	± 2 °C	
Humidity range	50 to 90 % RH		
Humidity fluctuation	± 5 to 7 % RH		
Continuous working time	≥ 180 h		
Ambient temperature	5 to 35 °C		
Number of shelves	3 pcs	3 pcs	4 pcs
Standard interface	RS485 for PC series		
Internal construction	Painted stainless steel		
Maximum power consumption	890 W	1680 W	2130 W
Power supply	AC 220 V ± 10 %, 50 Hz		
Internal dimension (W×D×H)	555 × 450 × 1100 mm	550 × 550 × 1200 mm	700 × 550 × 1200 mm
External dimension (W×D×H)	680 × 680 × 1760 mm	880 × 800 × 1900 mm	1030 × 800 × 1900 mm
Packaging dimension (W×D×H)	810 × 820 × 1890 mm	950 × 910 × 2100 mm	1150 × 930 × 2100 mm
Gross weight	150 kg	160 kg	190 kg

Standard accessories

Accessories no	Accessories name
1.	RS485 interface for PC series