

MIR-154-PA | MIR-254-PA | MIR-554-PA

MIR Incubators

Refrigerated Incubators



Versatile Applications

The MIR series refrigerated incubators offer accurate temperature control and consistent uniformity making them suitable for laboratory culturing, industrial incubation and various testing applications.

Wide Temperature Range

Multiple programming capability through wide temperature range (-10°C up to +60°C) with excellent chamber uniformity.

Ergonomic Cabinet Design

Improved usability with modern design, reversible door, adjustable low vibration and gentle air circulation that reduces media drying.

Energy Savings



Optimum Footprint



Maximum Control



4.3 cu.ft. | 8.4 cu.ft. | 14.3 cu.ft.



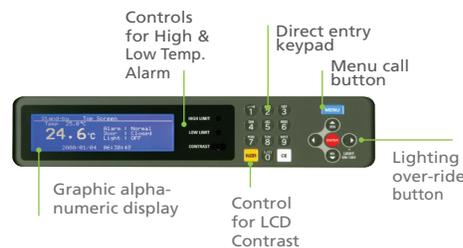
Temperature Range

The MIR series offers accurate temperature control and uniformity in a wide range of temperatures.



Microprocessor Controls

The MIR series incorporates an 8-bit microprocessor controller for heat and refrigeration control $\pm 0.2^\circ\text{C}$.



Applications

The MIR-154-PA, MIR-254-PA, and MIR-554-PA refrigerated incubators are ideal in testing applications such as:

- Industrial testing in the electrical, machinery, textile industries.
- Chemical testing, e.g., stability, acid/alkali, durability.
- Food industry for packaging, quality control and stability.
- Testing for waste water, BOD, and soil.
- Microorganism culturing, germination experiments and nucleic acid cloning ligations.



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MIR series incubators are designed for general laboratory applications requiring fixed setpoint or cycling temperature control.

Programmable

MIR series units are completely programmable, allowing for direct numeric input with memory of operation, start dates and hours, clock mode and counter-down mode.

LCD Controller

The new LCD Controller improves user interface for better programming and control. The controller features a pop-up menu that can display: current conditions (temperature, date), alarm condition, door and light status, various setting for each program (e.g. 12 step, 10 program, etc.).

Temperature Control

The microprocessor allows for precision temperature control combined with a heater PID and compressor ON-OFF system. With a feed forward function that inputs the operating conditions of the compressor beforehand, the system ensures accurate temperature control for the chamber.

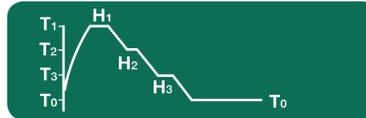
Memory Back-up Mechanism

Should the power source be interrupted due to power failure or other event, programmed data remains stored in memory semi-permanently. When the power source is restored, operation can be continued according to the predetermined program.

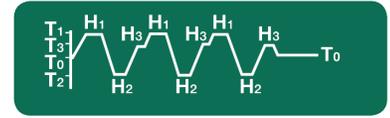
Programmable operational functions

Program input is simple and accommodates a range of diversified experimentation requirements. It is ideal for experimentation during night time, weekends, or that requires settings to be changed. It is also ideal for microorganism cultures and preservation.

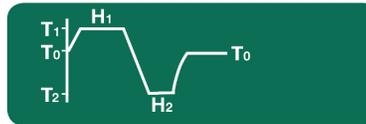
Temperature of T₁, T₂, and T₃, correspond to times H₁, H₂, and H₃, respectively. Then, constant operation temperature T₀ is retained.



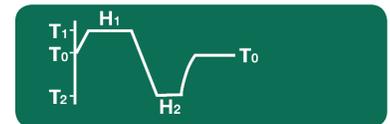
3 Step to Constant Operation



3 Step Repeat Operation



2 Step to Repeating Operation



2 Step to Constant Operation

| MODEL NUMBER | MIR-154-PA | MIR-254-PA | MIR-554-PA |
|---|---|---|---|
| EFFECTIVE CAPACITY | 4.3 cu.ft. 123 L | 8.4 cu.ft. 238 L | 14.3 cu.ft. 406 L |
| EXTERIOR DIMENSIONS W X F-B X H | 27.6" x 22.8" x 40.1" 700 x 580 x 1018 mm | 27.6" x 22.8" x 63.7" 700 x 580 x 1618 mm | 31.5" x 32.8" x 71.3" 800 x 832 x 1810 mm |
| INTERIOR DIMENSIONS W X F-B X H | 24.4" x 14.5" x 21.9" 620 x 368 x 555 mm | 24.4" x 14.5" x 42.8" 620 x 368 x 1088mm | 25.2" x 21.7" x 45.7" 640 x 550 x 1160 mm |
| DOOR | Reversible painted steel & triple pane glass with observation window | | Painted steel & triple pane glass with observation door & key |
| SHELVES | 3, PE coated steel wire, adjustable | 5, PE coated steel wire, adjustable | 5, PE coated steel wire, adjustable |
| INSULATION | Foam-in-place rigid polyurethane | | |
| COMPRESSOR | 150W, Hermetic Type | 250W, Hermetic Type | 250W, Hermetic Type |
| DEFROSTING SYSTEM | Selectable manual start or timer defrost, natural vaporisation of drain water | | |
| HEATER | 141W, Cord Heater | 218W, Cord Heater | 332W, Cord Heater |
| TEMPERATURE CONTROL | Microprocessor PID system, (when compressor operates, ON/OFF control) | | |
| AUTOMATION SETTING TEMPERATURE ALARM | When temperature deviates approx. ±2.5°C, visual and audible alarm | | |
| TEMPERATURE CONTROL RANGE | -10°C to 60°C (ambient temperature: 5°C to 35°C, no load) | -10°C to 60°C (ambient temperature: 5°C to 35°C, no load) | -10°C to 60°C (ambient temperature: 5°C to 35°C, no load) |
| TEMPERATURE UNIFORMITY | ±0.5°C (Temperature setting 37°C, ambient temperature 20°C, no load) | | |
| POWER SOURCE: VOLTAGE | 115V / 60Hz / 1 phase | | |
| POWER CONSUMPTION | 160 W | 240 W | 290 W |
| INTERIOR LAMP | 15 W x 1, fluorescent lamp (setting temperature +5°C to 50°C) | | |
| NET WEIGHT | 172 lbs 78 kg | 238 lbs 108 kg | 430 lbs 195 kg |



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