



Incubation

TECHNICAL BULLETIN

MIR's: Versatile Incubators for Broad Experimental Applications

The SANYO MIR series offers accurate temperature control and uniformity in a wide range of temperatures making them suitable for various applications including microorganism culture, diverse environmental tests, material and food duration tests, germination experiments and countless others. Refrigerated incubators have a three step program function, while heated incubators provide an accurate microcomputer timer function.

Refrigerated Incubators

Temperature Range: -10°C to +50°C 3-step microcomputer program function



MIR-153
4.5 cu.ft.
(126L)



MIR-253
9.0 cu.ft.
(254L)



MIR-553
14.3 cu.ft.
(406L)

Heated Incubators

Temperature Range: Ambient +5°C to +80°C with microprocessor timer function



MIR-162
3.3 cu.ft.
(93L)



MIR-262
5.4 cu.ft.
(153L)

**Applications in various research & industry fields on back*

Applications in various research and industry fields that use the SANYO MIR Series Incubators

	Electrical, Electronics, Semiconductors	Machinery, Metal, Ceramics	Chemicals, Textiles, Construction	Medical, Pharmaceuticals, Foods	Agriculture, Water and Soil Testing
<p>Refrigerated Incubators</p> <p>MIR-153,253, & 553</p>	<ul style="list-style-type: none"> -Battery charge/discharge Test (-10 to 50°C) -Battery cycle test (At a cycle from 0°C to 45°C for 2,3 months) -Aging test for alkaline batteries (0 to 45 C) -Temperature test for semiconductors -Storage of semiconductor photosensitive materials (10°C to 20°C) -Curing test for polymers (epoxy resin) (20 to 50°C) -Environmental test for instrumentation & parts (20°C) 	<ul style="list-style-type: none"> -Material test for alloy (Constant temp) -Thermostat environmental test (Constant temp) - Environmental test for electricity measurement device (20°C) -Environmental test for liquid samples (10 to 50°C) -Adhesive durability test for labels and stickers (25°C) -Storage of printing pastes and organic solvents (23 °C,25C) -Ink storage (10 °C or below) 	<ul style="list-style-type: none"> -Specific gravity and viscosity measurement for adhesives (20/30°C) -Storage test for adhesives (5/10/20°C for months and year) -Acid/alkali test for coating compounds (10/20/30°C) -Stability test for soap and detergents (5 °C) -Stability test for powder and liquid specimens (40°C) -Curing test for plastics (37°C) -Degradation test for fat and oil (5/20/30°C) -Curing test for epoxy resin (20 to 50°C) 	<ul style="list-style-type: none"> -Preliminary stability test for drugs and reagents (2 to 10°C) -Stability test for pharmaceuticals Stability and storage test for food products (0/40°C programmed operation) -Frozen cream quality control (-5 to 10°C) -Stability test for cosmetic ingredients (-10°C to 50°C, 40 cycles) Stability test for hair-care products (20 to 40°C) 	<ul style="list-style-type: none"> -Waste water BOD (biological oxygen demand) test (20°C for 5 days) -Fungi (mushroom) culture (25°C) -Rice saccharification test (25/35°C for 3 to 60 days)
<p>Heated incubators</p> <p>MIR-162 & 262</p>	<ul style="list-style-type: none"> -Microorganism damage test for home appliances (37°C) -Organic material measurement (80°C) 	<ul style="list-style-type: none"> -Adhesive softening (50 °C) 	<ul style="list-style-type: none"> -Temperature resistance test for adhesives (80°C) - Environmental test for fragrance (50 to 60°C for 2 weeks) 	<ul style="list-style-type: none"> -Microorganism culture for food product quality control (37°C for 24 hrs.) -Drinking water bacteria culture 	<ul style="list-style-type: none"> -BOD test (40°C for 5 days)