

# **Heated Incubators**

MIR-162/262



# Temperature (Ambient temperature 20°C)

Ambient temperature +5°C to 80°C

# **Effective capacity**

93 liters/3.3 cu.ft. (MIR-162)

153 liters/5.4 cu:ft. (MIR-262)

**Microprocessor PID Control** + Air Jacket

# **Heated Incubators provide a** precise and stable incubation environment

- A wide range of applications including biological cultures and environmental studies
- Accurate temperature control by Microprocessor PID control system and Air Jacket system
- Operation timer function
- Alarms and self diagnostic function secure safe operation.

#### **Features**

# Microprocessor PID control + Air Jacket system

Microprocessor PID control and Air jacket system give precise temperature control within the chamber. Temperature accuracy is within  $\pm 0.2^{\circ}$ C (at setting temperature 37°C) and temperature uniformity is within  $\pm 1.0^{\circ}$ C (at setting temperature 37°C).

## Microprocessor timer function

An accurate microprocessor timer is fitted to allow experiments up to 99 hours and 59 minutes. Desired start time is set by an automatic start (delay function). An information function activates a buzzer when a set time is over and keeps a set temperature after an operation finishes. Various operation patterns can be set by utilizing these functions.

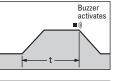
## Timer set patterns

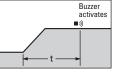
## Automatic stop function

Heater will be off after a set operation is over.

# Information function Continues operating







# Temperature control range — Ambient temperature +5°C to 80°C (AT 20°C)

Panasonic heated incubators allow incubation at normal temperature to high temperature.

## User-friendly design

Control panel uses a Touch keyboard and an easy-to-read green LED display. Temperature and time are shown respectively by digital displays. Durable stainless steel for interior cabinet.



Specifications			MIR-162	MIR-262
External dimensions (W x D x H)			580 x 595 x 820 (mm) / 22.8 x 23.4 x 32.3 (inch)	730 x 645 x 870 (mm) / 28.7 x 25.4 x 34.3 (inch)
Internal dimensions (W x D x H)			450 x 460 x 450 (mm) / 17.7 x 18.1 x 17.7 (inch)	600 x 510 x 500 (mm) / 23.6 x 20.1 x 19.7 (inch)
Effective capacity			93 liters (3.3 cu.ft.)	153 liters (5.4 cu.ft.)
Shelves			Stainless steel, Stainless wire	
Sileiv	52		2	3
Circulation system			Natural convection (Air Jacket system)	
Temperature control system			Microprocessor PID system	
Timer			Automatic timer with delay function 00:00 – 99:59	
Heater			Sheathed heater 200 W	Sheathed heater 300 W
Sensor			Thermistor	
Temperature range			Ambient temperature +5°C to 80°C (AT20°C)	
Temperature control accuracy			±0.2°C (to +60°C) ±0.5°C (+60°C to 80°C)	
Temperature uniformity			±1.0°C (AT20°C, Setting temperature 37°C)	
Net weight			44kg (97 lbs.)	61kg (134 lbs.)
Voltaç	je specific	ation by destination	Model No.	
e _	Europe	230V, 50Hz (CE)	MIR-162-PE	MIR-262-PE
Representative destination	Korea	220V, 60Hz	MIR-162-PK	MIR-262-PK
	Thailand	220V, 50Hz	MIR-162-PB	MIR-262-PB
	Australia	240V, 50Hz	MIR-162-PU	MIR-262-PU
æ	Taiwan	110V, 60Hz	MIR-162-PT	MIR-262-PT

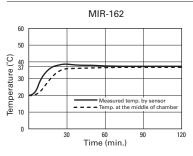
#### Various alarm functions

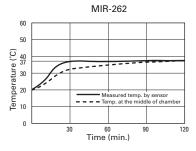
Various alarm functions and a diagnostic function are equipped to protect specimens.

Alarm system	Condition for action	Actions
Temperature alarm	±2.5°C deviation from set temperature	Lamp, LED, Buzzer
Independent temperature rise prevention system	When temperature rises over limited temperature	Out of operation: Buzzer In operation: Lamp, LED, Buzzer Heater will be turned off by an independent system
Key-lock switch	When key-lock is on	Does not accept key entry (except a buzzer call key)
Memory back-up	When power failure occurs and power plug is off	Memorises the pattern of set temperature & time
Self diagnostic system (problem monitor)	When faults occur	Fail-safes and displays E01 - E05

Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content.

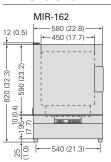
# Temperature uniformity data

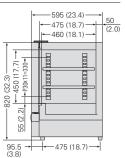


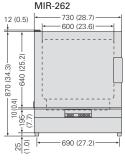


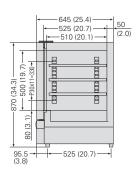
# **Dimensions**

Unit:mm (inch)











Panasonic Healthcare Co., Ltd., Biomedical Business Unit is certified for:

Quality management system: ISO9001

Medical devices quality management system: ISO13485





Panasonic Healthcare Co., Ltd., Biomedical Business Unit is certified for:

Environmental management system: ISO14001

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# **Panasonic**

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