



MIR-554-PE

## MIR

Cooled Incubators

406 L

### All-round performance

The **MIR-554 Cooled Incubator** is suitable for a wide range of applications. This incubator offers precise, repeatable control of programmable temperatures and lighting patterns, which are essential to biological research and environmental studies.

### Repetitive Operation & Operability

Precise, repeatable control of programmable temperatures and lighting patterns. A program can be set to repeat for a minimum of one time to a maximum of 98 times or continuous repeat.

### High-precision Temperature Control

Precise temperature control with a high precision microprocessor combined with a heater PID and compressor on/off system. The temperature control ranges from  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

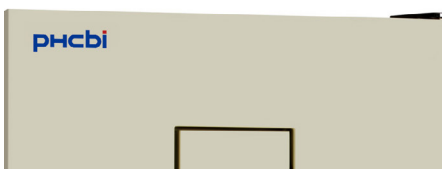
### Intuitive Operation

A LCD control panel with touch keyboard displays temperature and time, and allows easy setting of parameters. Operation data can be auto-recorded and graphically displayed.



### Diverse experiments

Ideal for experimentation during night time and holidays, experimentation that requires settings to be changed, micro-organism culture and preservation.



### Condensation prevention

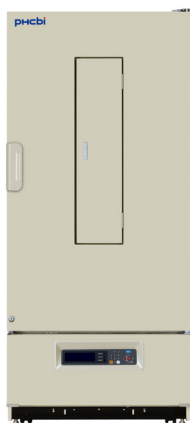
A humidity reduction mode helps reduce inner chamber condensation that may occur during high temperature operation.



### Wide temperature control range from $-10^{\circ}\text{C}$ to $+60^{\circ}\text{C}$

With a wide temperature range from  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ , the MIR-554 Cooled Incubator allows a full range of precise experiments including environmental tests to micro-organism cultures and plant germination tests.

# MIR Cooled Incubators



## Improved experimentation of repetitive operation and operability

### Programmable operation function with microprocessor control

Combining flexible temperature (H), light on/off (L) and time control (T), a maximum 12-step plus constant operation or max. 12-step repeating operation can be programmed according to the experimentation requirements. A program can be set to repeat for a minimum of one time to a maximum of 98 times or continuous repeat. The MIR-554 Cooled Incubator also offers the choice of timer mode, 24-hour clock mode and timer mode to suit user experiments. Up to 10 programs can be stored for convenient retrieval and set-up of frequently run experiments. Individual programs can be combined using the join function. Constant operation mode without step operation is also available.

## Energy savings

In addition to a microprocessor-controlled high efficient heater output and compressor on/off, an updated control program and low heat-emission inner chamber fan have been incorporated to allow high energy saving operation over a wider range of ambient environments.

## Light timer control

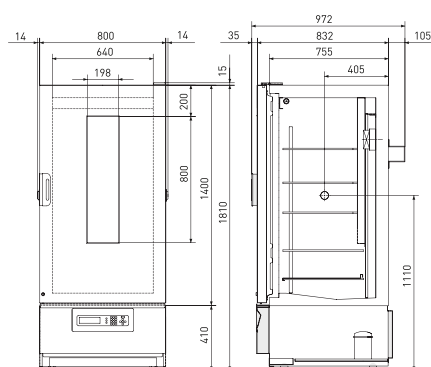
On/off programmed timer control for standard equipped fluorescent light (15W x 1pc) is available. Optional light addition kit (MIR-L15) can add three more fluorescent lights into the chamber ceiling, giving approx. 3000 lux at 30cm below from the light sources.

Model Number		MIR-554-PE
Dimensions		
External dimensions (W x D x H) <sup>1)</sup>	mm	800 x 832 x 1810
Internal dimensions (W x D x H)	mm	640 x 550 x 1160
Volume	liters	406
Net weight	kg	195
Performance		
Temperature control range & fluctuation	°C	-10 ~ +60 (AT; +5 ~ +35, no load), ±0.2 with Heater PID control (SV 50), ±1.5 with Compressor control (SV 5) PID control: 10 °C above AT
Temperature uniformity	°C	±0.5°C (set: 37°C, ambient temp.: 20°C, no load)
Control		
Temperature sensor		Thermistor
Refrigeration		
Compressor		250
Refrigerant*		R-513A
Refrigerant weight	g	240
Refrigerant GWP		631
Total Refrigerant weight (CO <sub>2</sub> equivalent)	t	0,152
Cooling method		Forced air circulation
Insulation material		PUF
Insulation thickness	mm	80
Construction		
Exterior Material		Painted steel
Interior Material		SS SUS-304
Outer door	qty	1
Outer door lock		Y
Shelves	qty	5
Max. load per shelf	kg	50
Max. total load	kg	250
Access port	qty	2
- position		left and right side
- diameter	Ø mm	40
Interior fluorescent lamp		1, 15, with MIR-L15-PE <sup>2)</sup> option
Alarms		
(R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)		
Power failure		R
High temperature		V-B-R
Low temperature		V-B-R
Door open		V-B
Electrical and noise level		
Power supply	V	230
Frequency	Hz	50
Noise level <sup>3)</sup>	dB(A)	45
Options		
Additional illumination kit		MIR-L15-PE
Inner doors		MIR-55ID-PW

Appearance and specifications are subject to change without notice.

<sup>1)</sup> Exterior dimensions of main cabinet only, excluding handle and other external projections  
<sup>2)</sup> MIR-L15-PE operates between +2°C and +50°C

<sup>3)</sup> Nominal value, Background noise 20dB  
 \* Complies with Art. 11, Annex III of F-Gas Regulation (EU) No 517/2014. Contains fluorinated greenhouse gases.



MIR-554-PE - 406 liters

Unit : mm



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