



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 LED light (15W x 1pc) is available. Optional light addition kit (MIR-L15) can add three more LED lights into the chamber ceiling.

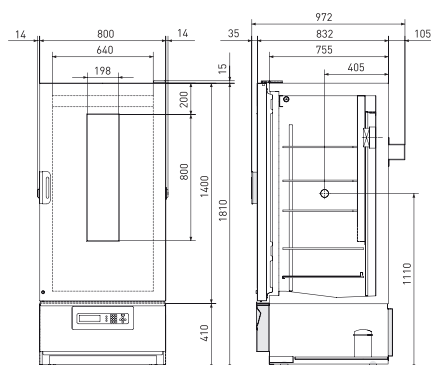
Model Number		MIR-554-PE
Dimensions		
External dimensions (W x D x H) <sup>1)</sup>	mm	800 x 832 x 1810
Internal dimensions (W x D x H)	mm	640 x 550 x 1160
Volume	liters	406
Net weight	kg	195
Performance		
Temperature control range & fluctuation	°C	-10 ~ +60 [AT; +5 ~ +35, no load], ±0.2 with Heater 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-1234yf
Refrigerant weight	g	240
Refrigerant GWP		0.501
Total Refrigerant weight (CO <sub>2</sub> equivalent)	t	0.00012
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 LED lamp		1, [3 with MIR-L15-PW <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 LED kit		MIR-L15-PW
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-PW operates between +2°C and +50°C

<sup>3)</sup> Nominal value, Background noise 20dB



MIR-554-PE - 406 liters

Unit : mm

# PHC Europe

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# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

**[www.wolflabs.co.uk](http://www.wolflabs.co.uk)**

**Tel : 01759 301142**

**Fax : 01759 301143**

**[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)**

Please contact us if this literature doesn't answer all your questions.