

Plant Grow Chambers Optimal Climate Control

MLR-352-PE / MLR-352H-PE



Versatile plant growth chamber

- Suits a wide range of applications
- Graphic LCD provides easier operation
- Programmable temperature, lighting and humidity functions
- Microprocessor PID control and refrigeration capacity control
- Data logging function

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The wide variety of temperatures and lighting patterns that are required for the research and testing of a number of different plants and insects can now be accurately reproduced and controlled. Microprocessor PID control of temperature and humidity (0°C to +50°C, 0 to 20,000lux and 55 to 90%RH resp.) create the optimum environments for various applications.

- Microprocessor PID and Refrigeration Capacity Control eliminate temperature fluctuations and thereby improve temperature control. This allows superior precision and repeatability for experiments as well as energy and electricity savings.
- Temperature and light settings are programmable to provide the perfect cycles for vernalization.
- 10 programmes of up to 12 steps each can be memorized.
- Selectable clock mode or timer mode
- Multiple programs can be linked (Join mode).
- Starting day and time of operation can be programmed.
- Operational data can be automatically stored for approximately 2 weeks (at 6 minute intervals).
- Data can either be viewed on the LCD control panel display or transferred to a PC using the optional interface modules.
- Easy calibration: temperature and humidity can be calibrated easily from the control panel.
- Small and lightweight, high-molecular membrane-type humidity sensor also boasts a high degree of accuracy and reproducibility. Of the newest high-molecular membrane type, the humidity sensor accurately measures chamber humidity (MLR-352H only).cabinet.



Control panel

Graphic LCD panel with pop-up menu function on control panel provides more visual display and allows intuitive operation.

Plant Growth Chambers			
Characteristics			
MODEL		MLR-352-PE	MLR-352H-PE
Dimensions			
External dimensions (W x D x H)	mm	760 x 700 x 1835	760 x 700 x 1835
Internal dimensions (W x D x H)	mm	520 x 490 x 1135	520 x 490 x 1135
Volume	ltr	294	294
Net weight	kg	226	235
Technical Data			
Power supply	V	230	
Frequency	Hz	50	
Noise Level ¹⁾	dB	45	
Insulation material		PUF	
Performance			
Temperature sensor		Thermistor	
Temp control range and fluctuation	°C	+5 ~ +50 (Lamp off) ±0.3 +10 ~ +50 (lamp on) ±0.3	
Temperature uniformity	°C	±1 (lamp off) ±2.5 (lamp on)	
Humidity control range and fluctuation	%RH		60-90 / LS:0 (15-45°C) 55-85 / Lamp On (15-45°C)
Light control range	Lx	Programmable 0 ~ 20000	
Alarms			
Power failure			R
Out of temperature setting			B-R
High temperature			B-R
Out of humidity setting		-	V
Door open			V-B
General			
Exterior material			Painted steel
Colour (exterior)			Bio-beige
Cabinet material (interior)			SS SUS-304
Outside door	qty		3
Reversible door			N
Inside door	qty		1
Outside door lock			N
Shelves	qty		5
Max. load per shelf	kg		25
Max. total load	kg		100
Access port	qty		1
- position			Ceiling
- diameter	∅ mm		40
Options			
Digital interface			MTR-480-PW

Notes:
¹⁾ Nominal Value

Appearance and specification are subject to change without notice.

for more online information:

www.biomedical.panasonic.eu