Panasonic

MLR-**352H**-PA

Plant Growth Chamber

Ergonomic Design

The slim profile cabinet offers a sophisticated performance within minimal space.

Application Specific Technology

The MLR series humidified plant growth chamber has a temperature range of 0°C to 50°C, with programmable lighting for diurnal protocols in plant and insect experiments.

Easy Calibration

The temperature and humidity can be calibrated through the control panel. The small and light weight membrane-type humidity sensor allows for high accuracy and reproducibility.

Microprocessor Control	Energy Savings	Optimum Footprint
	$	

10.4 cu.ft

LCD Display

An LCD graphic display can be used to **easily set and monitor temperature and humidity within the chamber.** All other comprehensive security monitoring and alarm functions are standard.

Precision Environment

The MLR series humidified plant growth chamber is designed to **accurately reproduce and control a wide variety of temperatures, humidity and lighting patterns.** Nine user programmable steps allow simulation of environmental conditions, while fifteen variable intensity fluorescent lamps create uniform lighting.

Improved Usability

Panasonic's MLR series allows for a more versatile environmental test chamber. It provides **greater control over environmental conditions with programmable functions, microprocessor design, data logging capability, intuitive calibration, and a humidity sensor.**

Life Science

Discovery powered by precision™

Plant Growth Chamber

The Panasonic MLR-352H-PA has been recognized as an exceptional unit that is suitable for a wide range of applications. The variety of temperatures, humidity and lighting patterns that are essential in research, environmental studies, and testing can now be accurately reproduced and controlled.

Microprocessor P.I.D. Control

Panasonic's microprocessor P.I.D. allows for accurate, reproducible, and flexible programming of all performance parameters and optimal energy management. An LCD graphic display can be used to easily monitor temperature and humidity within the chamber. All other comprehensive security monitoring and alarm functions are standard.

Ergonomic Design

Slim profile cabinet offers sophisticated performance in minimal space.

Technology

The wide variety of temperatures, humidity and lighting patterns that are essential in research and environmental studies can now be accurately reproduced and controlled.

Programmable

Nine user programmable steps allow simulation of environmental conditions; 15 variable intensity fluorescent lamps create uniform lighting.

Gentle Air Circulation

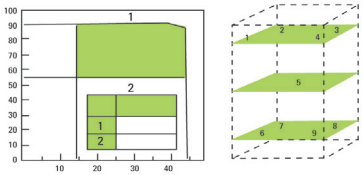
Maximizes temperature uniformity at all shelf levels.

Versatile Environmental Test Chamber:

- » New LCD controller improves user interface.
- » Programmable temperature, lighting and humidity function.
- » Microprocessor P.I.D temperature control.
- » Data logging function.
- » Easy calibration through controller.
- » Small lightweight, high molecular membrane-type humidity sensor.
- » Gentle air circulation for maximum temperature uniformity at all shelves.

Temperature Distribution (°C)

The temperature distribution (°C) is determined using 1/2H and center point (5) as the zero reference.



Point	
1	0
2	+0.2
3	+0.1
4	+0.1
5	0
6	+0.3
7	+0.4
8	+0.2
9	+0.3

Temperature Range	5°C to 50°C (lamp OFF) 10°C to 50°C (lamp ON)
Temperature Distribution	±1.0°C (lamp OFF) ±2.5°C (lamp ON)
Temperature Accuracy	±0.3°C

MODEL	MLR-**352H**-PA
INTERIOR DIMENSIONS	20.5" x 19.3" x 44.7" 520 x 490 x 1135 mm
EXTERIOR DIMENSIONS	29.9" x 27.6" x72.2" 760 x 700 x 1835 mm
EFFECTIVE CAPACITY	10.4 cu.ft. (294 liters)
TEMPERATURE RANGE	5°C to 50°C (Lamp OFF) and 10°C to 50°C (Lamp ON)
TEMPERATURE ACCURACY	± 0.3C
HUMIDITY RANGE	60 to 90% RH (LS: 0, Temp: 15 to 45°C); 55-85% RH (LS: 5, Temp: 15 to 45°C)
REFRIGERANT AND HEATER	R404A and 340W
DEFROSTING SYSTEM	Automatic defrost (3 patters), manual defrost
AIR CIRCULATION	Forced air circulation
COMPRESSOR	Fully hermetic, 325W output
TEMPERATURE CONTROL	P.I.D. microprocessor control and refrigeration capacity control

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