

Plant Growth Chamber MTR26- Multi Tier



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Product Overview/Applications

The MTR26 provides 26ft² (2.4 m²) of growth area and 24" (610mm) of growth height over two shelves and is suitable for a range of applications including the growth of short to medium height plants that require moderate light intensity. Standard is a closed-loop lighting system. The chamber is shipped fully assembled, fits through standard doorways, and has a low overall height for confined ceiling spaces. Please consult Meditech with your particular application and area of research and we will provide you with an overview of the available options.

Lighting

The standard lighting system uses both T8 fluorescent and halogen incandescent lamps resulting in a broad based lighting spectrum. Also standard is a closed-loop lighting system (programmed in micromoles) which allows for precise and repeatable control of light output while also automatically adjusting for lumen maintenance. Light intensity is 600 micromoles/m²/s which is measured by a quantum light meter and transmitted to the controller for user readout. Lamp heat is controlled and managed by the refrigeration system.

Airflow

Airflow is distributed to the two shelves through two Meditech Uni-floor systems – one at the floor level and another just below the second shelf. The air is discharged upward resulting in uniform air distribution throughout the growth area. The unit includes fresh air intake and exhaust ports which are adjustable to allow up to 20 ft³/min (0.57m³/min.) of air exchange.

Refrigeration

Cooling is provided by a self-contained water-cooled condensing unit with hot gas bypass for continuous compressor operation. An electronic modulating valve provides tight temperature control while ensuring quiet operation. Pressure

transducers are included for monitoring the status of the refrigeration system. Alternative refrigeration methods are available depending on site-specific and/or user-defined requirements. Consult the factory for heat rejection information and other refrigeration options.

Experiment Protection

User programmable “set and forget” alarms track the chamber’s operation versus user-defined set points. This allows for exceptionally accurate monitoring without the need for adjustment every time the set point is redefined. Backup “high/ low” alarms provide a further level of protection while visual and audible notification is provided when any alarm is activated. Contacts for connection to a building management system are also included.

Key Product Attributes

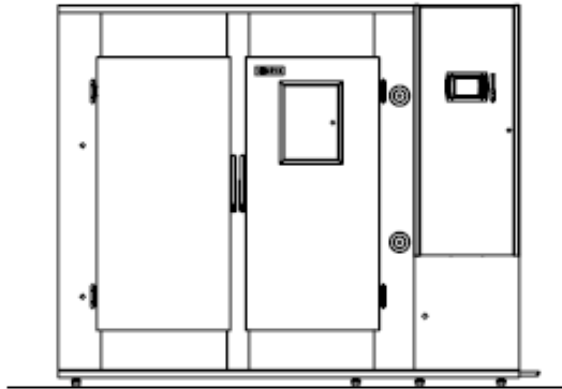
- 26 square feet (2.4 m²) growth area over two shelves for short to medium height plants
- Shipped fully assembled – fits through standard doorways
- Closed-loop light control with dimming ballasts
- Product certifications/markings; CE



Performance Data

Temperature Range (°C)	Shelf Capacity	Growth Area	Growth Height	Exterior Dimensions (WxDxH)	Light Intensities (6in. from lamp)	Electrical Service	Weight
10 – 45 lights on	26 ft ³	26 ft ²	24”	94.5” x 35” x 78”	600 μmoles/m ² /s	120-1Ø-60Hz	2485 lb
4 – 45 lights off	736 L	2.4 m ²	610 mm	2415 x 890 x 1980 (mm)	@ 25°C	220-1Ø-50Hz	1127kg

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RIGHT HAND
CONTROL PANEL

