Tissue Culture Room MTCR









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Tissue Culture Room MTCR

Product Overview/Applications

The MTCR walk-in room provides a multi-tier modular platform available in increments of 60ft2. This makes the MTCR chamber suitable for research involving plant tissue culture and is often used within large micro propagation programs. The solid side wall plenums transfer air to individual air shelves ensuring upward airflow from each individual shelf, which is essential to mitigating condensation within media dishes.

Lighting

The standard lighting package for the MTCR model generates low to moderate light intensities and incorporates fluorescent lamps. Intensities are ideally suited for tissue culture research. Multiple lighting levels can be programmed with the control system while higher light intensities are available as an option.

Airflow

A center column conditioning coil directs air through pressurized sidewall plenums which is then directed into each individual air shelf. Uniform vertical airflow from each shelf ensures that a precise volume of air is directed upward around the media containers. Filtered and adjustable fresh air intake and exhaust openings enable researchers to manage exchange air to the chamber.

Refrigeration

The standard refrigeration system for the MTCR incorporates a water-cooled condensing unit for heat exchange and 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 for this equipment platform depending on site-specific and/or user defined requirements. Consult the factory for heat rejection information and other options for cooling.

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

Multi-tier design maximizes tissue culture area

- Pressurized sidewall plenums deliver uniform vertical airflow to mitigate or eliminate condensation
- Product certifications/markings : CE





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Performance Data

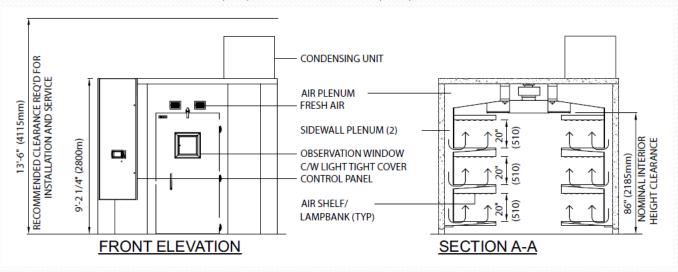
	Temperature Range (°C)	Interior Capacity	Growth Area	Growth Height	Exterior Dimensions (WxDxH)	Light Intensities (6in. from lamp)	Electrical Service	Weight
MTCR60	15 – 40 lights on	99ft3	60ft2	20"	10'7.5" x 5'10" x 9'2.25"	190 μmoles/m2/s	120-1Ø- 60Hz	4610lb
	5 – 40 lights off	(28201)	(5.6m2)	(510mm)	3240 x 1780 x 2800 (mm)	@ 25°C	220-1Ø- 50Hz	(2091kg)
MTCR120	15 – 40 lights on	190ft3	120ft2	20"	10'7.5" x 10'7.5" x 9'2.25"	190 µmoles/m2/s	120-1Ø- 60Hz	5800lb.
	5 – 40 lights off	(56401)	(11.2m2)	(510mm)	3240 x 3240 x 2800 (mm)	@ 25°C	220-1Ø- 50Hz	(2631kg)
MTCR180	15 – 40 lights on	290ft3	180ft2	20"	10'7.5" x 15'5" x 9'2.25"	190 μmoles/m2/s	120-1Ø- 60Hz	7200lb
	5 – 40 lights off	(84601)	(16.7m2)	(510mm)	3240 x 4700 x 2800 (mm)	@ 25°C	220-1Ø- 50Hz	(3266kg)

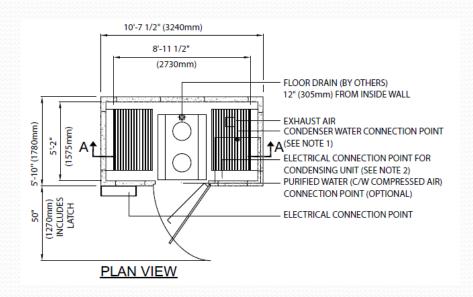


MTCR60 TISSUE CULTURE CHAMBER

NOTES:

- 1. STANDARD REFRIGERATION SYSTEM IS WATER COOLED (3/4"Ø (19mmØ) CONNECTION).
- 2. CONDENSING UNIT REQUIRES A SEPERATE ELECTRICAL SERVICE.
- 3. LENGTH AND WIDTH DIMENSIONS ±1/4 (6mm). HEIGHT DIMENSION ±1" (25mm). DO NOT SCALE DRAWING



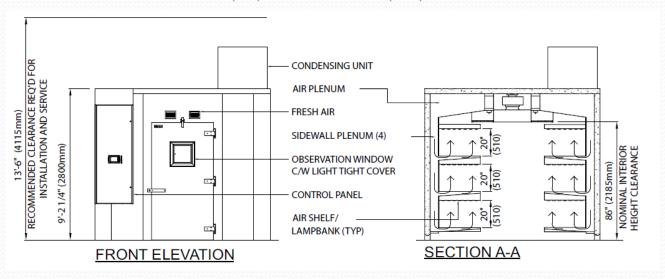


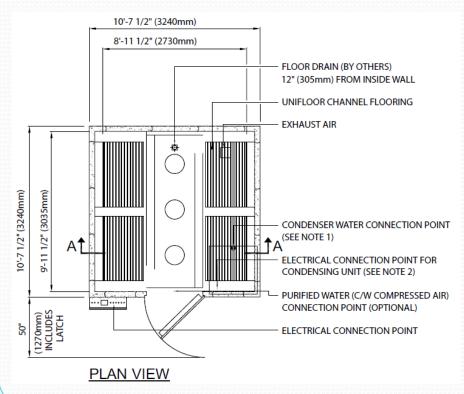


MTCR120 TISSUE CULTURE CHAMBER

NOTES:

- 1. STANDARD REFRIGERATION SYSTEM IS WATER COOLED. (3/4"Ø (19mmØ) CONNECTION)
- 2. CONDENSING UNIT REQUIRES SEPERATE ELECTRICAL SERVICE. (60HZ APPLICATION ONLY)
- 3. DEPTH DIMENSION IS CHAMBER SIZE ONLY. DIMENSION DOES NOT INCLUDE DOOR LATCH.
- 4. LENGTH AND WIDTH DIMENSIONS ±1/4 (6mm). HEIGHT DIMENSION ±1" (25mm).







MTCR180 TISSUE CULTURE CHAMBER

NOTES:

- 1. STANDARD REFRIGERATION SYSTEM IS WATER COOLED. (3/4"Ø (19mmØ) CONNECTION)
- 2. CONDENSING UNIT REQUIRES SEPERATE ELECTRICAL SERVICE. (60HZ APPLICATIONS ONLY)
- 3. DEPTH DIMENSION IS CHAMBER SIZE ONLY. DIMENSION DOES NOT INCLUDE DOOR LATCH.
- 4. LENGTH AND WIDTH DIMENSIONS ±1/4 (6mm). HEIGHT DIMENSION ±1" (25mm).

