

# MTPS Series

Walk-in  
Growth Room



**CONVIRON**<sup>®</sup>



# MTPS Series Walk-in Growth Room

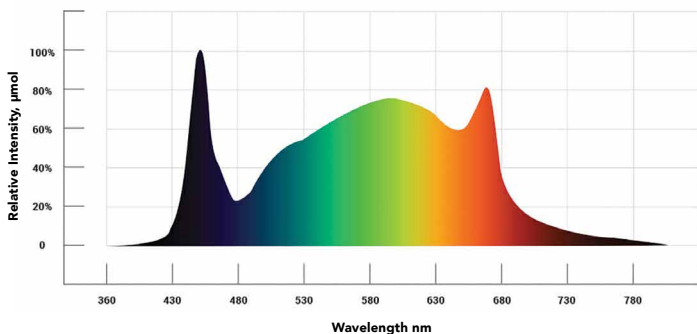
## Product Overview

Conviron's MTPS provides a multi-tier chamber based on a modular platform and available in increments of 72ft<sup>2</sup> (6.7m<sup>2</sup>). This chamber configuration is often used for research involving C3 and similar short plants. This makes the chamber ideal for use in mass-screening projects and for sizeable plant propagation programs. Pressurized and perforated side-wall plenums deliver air across each of three independently lit tiers integrated into fixed shelving banks on either side of a center aisle way.

## Lighting

Our standard lighting package for the MTPS is balanced spectrum LED fixtures. Lamp canopies are secured to stationary plant shelves within the chamber while an option is provided for lamp canopies to be cantilevered from the wall to allow for rolling plant carts that can roll into place between the canopies. Multiple lighting levels can be programmed with the CMP6060 control system while higher light intensities are available as an option.

LED Spectrum



## Airflow

Uniform airflow is introduced to the growth area through precisely manufactured perforated sidewall plenums with a center return to the conditioning coil. The resultant horizontal airflow accommodates the use of multiple plant trays without concern for impeding airflow. Filtered and adjustable fresh air intake and exhaust openings enable researchers to manage exchange air to the chamber.

## Refrigeration

Cooling for the MTPS series 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

- Modular design that easily accommodates variable sizes
- Multi-tier application to maximize plant growth area
- Horizontal airflow to enable use of flats without impeding airflow
- Product certifications/markings; CCSAUS (NRTL), CE



**MTPS rooms are ideal for mass screening projects and sizeable plant propagation programs.**

# MTPS Series Walk-in Growth Room

## Performance Data

	Temperature Range (°C)	Interior Capacity	Growth Area	Growth Height	Exterior Dimensions (WxDxH)	Light Intensities (6in. from lamp)	Electrical Service
<b>MTPS72</b>	15 - 35 lights ON 10 - 35 lights OFF	366ft <sup>2</sup> (10364l)	72ft <sup>2</sup> (6.7m <sup>2</sup> )	22" (560 mm)	11'7" x 5'10" x 9'2.6" 3530 x 1780 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz
<b>MTPS144</b>	15 - 35 lights ON 10 - 35 lights OFF	706ft <sup>2</sup> (19992l)	144ft <sup>2</sup> (13.4m <sup>2</sup> )	22" (560 mm)	11'7" x 10'7.5" x 9'2.6" 3530 x 3240 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz
<b>MTPS216</b>	15 - 35 lights ON 10 - 35 lights OFF	1045ft <sup>2</sup> (29590l)	216ft <sup>2</sup> (20.1m <sup>2</sup> )	22" (560 mm)	11'7" x 15'5" x 9'2.6" 3530 x 4700 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz
<b>MTPS288</b>	15 - 35 lights ON 10 - 35 lights OFF	1317ft <sup>2</sup> (37293l)	288ft <sup>2</sup> (26.8m <sup>2</sup> )	22" (560 mm)	11'7" x 20'2.5" x 9'2.6" 3530 x 6160 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz
<b>MTPS360</b>	15 - 35 lights ON 10 - 35 lights OFF	1404ft <sup>2</sup> (39760l)	360ft <sup>2</sup> (33.4m <sup>2</sup> )	22" (560 mm)	11'7" x 24'0.5" x 9'2.6" 3530 x 7330 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz
<b>MTPS432</b>	15 - 35 lights ON 10 - 35 lights OFF	1996ft <sup>2</sup> (56520l)	432ft <sup>2</sup> (40.1m <sup>2</sup> )	22" (560 mm)	11'7" x 28'10" x 9'2.6" 3530 x 8790 x 2785 (mm)	500 µmoles/m <sup>2</sup> /s @ 25°C	120/208-3Ø-60Hz 230/400-3Ø-50Hz



MTPS with custom LED lights.



Researcher examines plants in MTPS.

## Control & Monitoring

The MTPS Series comes equipped with Conviron's most advanced controller - the CMP6060



### Intuitive Interface

7" full-color, high resolution touchscreen with intuitive graphic interface for easy navigation.



### Easy Programming

Extended visibility of multiple timelines and processes.



### At-a-Glance Monitoring

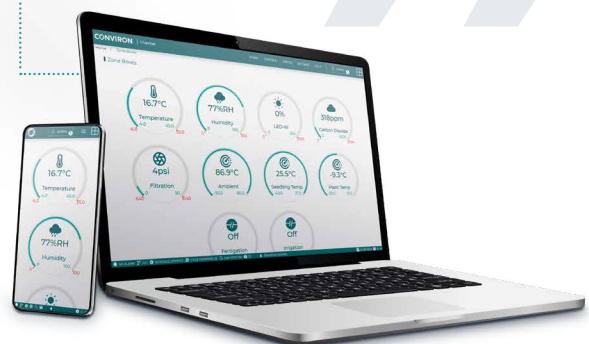
Historical trend graphs, vibrant alarm status, and easy-to-track alarm history.



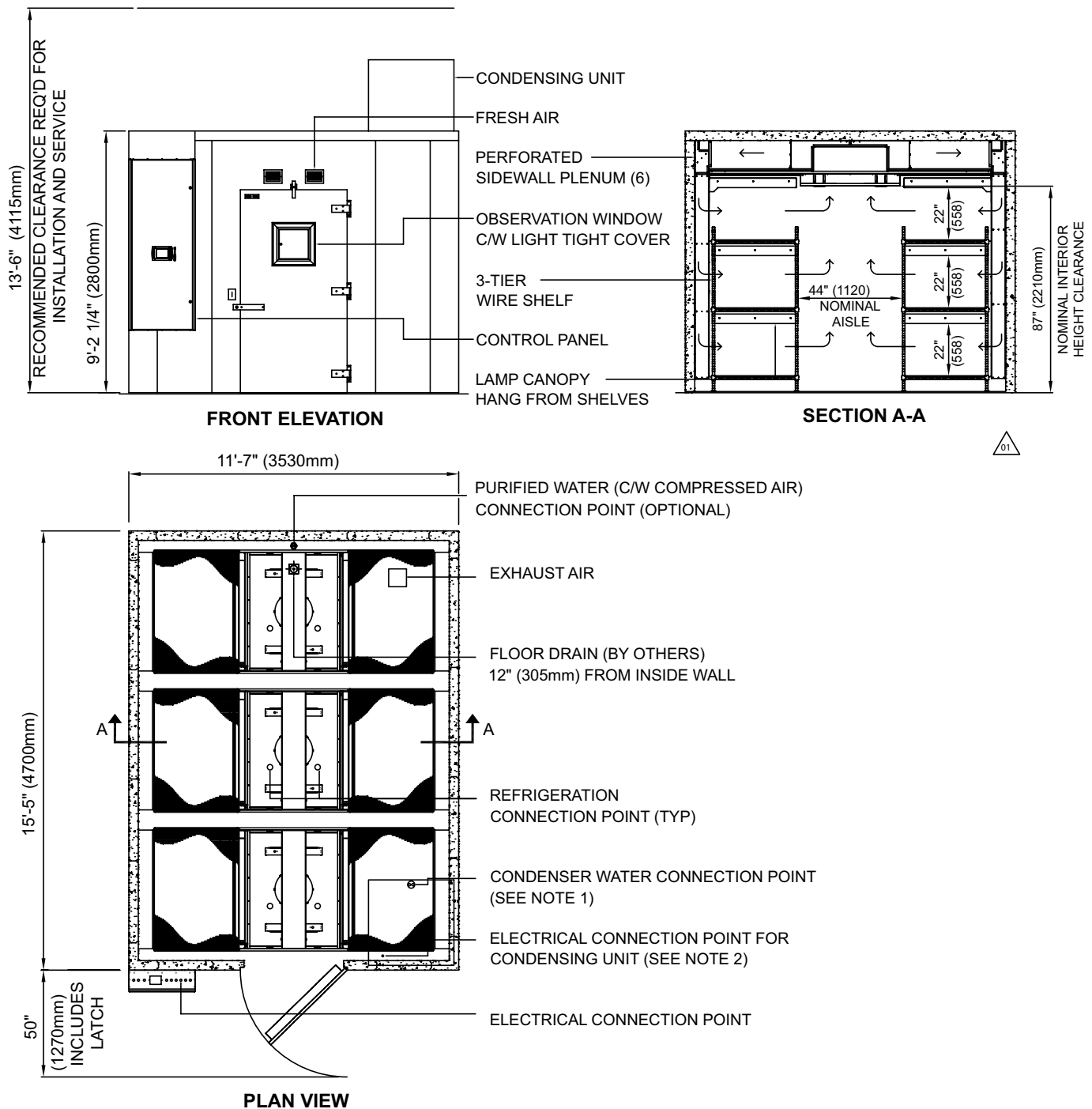
### Remote Connect

Connect from anywhere on your laptop or any LAN connected device with CMPconnect.

**With ConvironDirect I always have access to my chamber — from anywhere.**



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## NOTES:

1. STANDARD REFRIGERATION SYSTEM IS WATER COOLED.
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  $\pm 1/4$  (6mm). HEIGHT DIMENSION  $\pm 1$ " (25mm).