Features:

- 3.7m² (40ft²) to 14.9m² (162ft²) of plant growth area
- 2415mm (95”) of growth height
- 1100µmoles/m²/s P.A.R. of lighting

Ideal for cereal crops and other plants requiring high light intensities

Barriered lighting with separate lamploft refrigeration & temperature control

Growth height can be customized for plants requiring more height

High intensity discharge (HID) lighting for high light applications

Tall Plant growth chambers and rooms are specifically designed to provide maximum growth height and high lighting levels. They are ideal for experiments with cereal crops, shrubs, saplings and horticulture plants.
Quality product.
Excellent service.
Innovative designs.
INTRODUCTION
BioChambers’ plant growth room series TPRB was specifically designed with a barriered lamploft in which lamp heat is isolated from the plant growth space and is independently temperature controlled, maximizing the light intensity at all room temperatures by maintaining a constant lamploft temperature. The room features a full ceiling lighting canopy (no walk-in aisle) and side wall air plenums with a downward airflow design providing uniform conditions inside the room. BioChambers’ plant growth rooms provide tight uniform control of temperature, a balanced lighting spectrum using a mixture of metal halide and high pressure sodium lamps, and adjustable airflow.

1.0 CONTROLLER
1.1 Controller Version: BioChambers VNET.
1.2 Interface: Fanless panel PC with a 305mm (12”) color touch screen.
1.3 Ethernet Connection: Remote secure access using a unique site specific webkey allowing the chambers/rooms to be connected to a facility supplied local area network (LAN)/internet.
1.4 Security: Multiple levels of password security for researchers, administrators, service technicians, and BioChambers’ factory technicians.
1.5 VNET Viewer: Instantly view the status of all your experiments. Single or multiple chambers/rooms can be remotely monitored and operated from a central location via use of the LAN/internet. VNET Viewer can be installed at up to three existing computer stations.
1.6 Schedule: Multi-line schedule can be created for temperature, lighting, and fan speed using the touch screen interface or remotely using the facility provided LAN/internet. Available options: humidity, carbon dioxide, auxiliary circuits primarily for automatic watering, light intensity, etc… can also be scheduled.
1.7 Multi-Day: Simulation of multi-day changing environmental conditions can be scheduled.
1.8 Ramping: Temperature ramping from setpoint to setpoint. Available options: humidity, carbon dioxide, and dimmable lighting can also be ramped.
1.9 Astronomical Clock: Researchers can produce photo-period schedules for locations worldwide by simply entering the latitude and longitude.
1.10 Graphing: Controlled parameters such as temperature and the following available options: humidity, carbon dioxide, and light intensity can be graphed to show setpoint versus actual conditions.
1.11 Research Data: Controller equipped with a compact flash memory card to store multiple schedules and logged data such as temperature, alarms, etc… Log rate and duration can be set by the user.
1.12 Data Export: Data can be exported to the researchers/administrators computer for further analysis.
1.13 Start-up: Provisions for chamber/room start-up delay in facilities with multiple chambers/rooms helping to reduce the initial inrush current after a power outage.
1.14 Alarms: Notification via e-mails sent to a cell phone or laptop PC, building alarm contacts connected to a facility supplied building security system, and on chamber/room audible alarm with red indicator light.
1.15 Service Data: Refrigeration system pressures and temperatures along with other service parameters are logged. Log rate and duration can be set independently of the research log.
1.16 Service Screen: Displays compressor discharge and suction pressures and temperatures, facility water supply and return temperatures, automatic setting temperature safety limits status, lamp hours, sensor calibration hours, temperature control valve position, and more.
1.17 Service: Two manual toggle switches with a 10 minute schedule bypass are provided for the service technician to place the chamber/room into full cooling or heating and all lights on or off. This enables faster and easier service work as the technician does not need to learn how to use the control system.
2.0 CONSTRUCTION (TPRB-37 specification, for other models see tables 1 and 2)

2.1 Exterior Dimensions: 3050mmW x 1780mmD x 2900mmH (10'0"W x 5'10"D x 9'6¼"H) assembled. Add 915mm (36") to the height for the refrigeration system and ballast racks (custom width, depth and heights are available).

2.2 Assembly: Room disassembles for easy installation in the facility. Panel assembly: posi-loc cam type locking action.

2.3 Interior Dimensions: 2360mmW x 1575mmD x 2415mmH (7'9"W x 5'2"D x 7'11"H).

2.4 Growth Area: 3.7m² (40ft²).

2.5 Growth Height: 2415mm (95") to the barrier.

2.6 Growth Capacity: 9.0m³ (317ft³).

2.7 Interior: 24ga. Smooth galvanized steel with factory baked white enamel finish. Top 1220mm (48") at the barrier complete with a specular aluminum finish.

2.8 Exterior: 26ga. Stucco galvanized steel with factory baked white enamel finish.

2.9 Lamp Canopies: Fixed height lamp canopy with a single pane acrylic barrier isolating the lamps from the growth area. Independent temperature controlled cooling system for the lamploft.

2.10 Drain Pan: Air plenum drain pans constructed of stainless steel for superior corrosion resistance (drain pan in the plant growth area not supplied). Insulated floor not supplied (see options).

2.11 Insulation: 100mm (4") of foamed in place urethane insulation.

2.12 Electronics: Filtered air blown into the control panel, providing cooling to the electronics and positive pressure in the control panel keeping dust out, extending the life of the electronics.

2.13 Service: Easy access to electronics through lockable doors and mechanical components located on the roof of the room.

2.14 Instrument Ports: Two 50mm (2") with light tight covers.

2.15 Walk-In Door: One 915mmW x 1980mmH (36"W x 78"H) door with light tight magnetic gaskets, self closing cam lift hinges, closure device, and interior safety door release.

2.16 Observation Window: One 320mm x 320mm (12½" x 12½") dual pane glass window with light tight cover.

2.17 Control Panel: Display mounted on the left side of the room when facing the door (right side available upon advanced request).

2.18 Aisle/Vestibule: Space for an aisle must be subtracted from the growth area and growth capacity.

3.0 TEMPERATURE

3.1 Ambient: Designed for a maximum ambient of 35°C.

3.2 Range: 4°C to 40°C all lights off, 10°C to 40°C all lights on (extended temperature options are available).

3.3 Control: PID control, +/-0.5°C at the aspirated sensor.

3.4 Temperature Limits: Automatically set when the researcher runs a schedule. One high/low and one lamp safety temperature limit sensor independent of the main temperature sensor.

3.5 Aspirator: Adjustable, aspirated, and shielded from the lights sensing of temperature.

3.6 Temperature Sensor: High precision fast responding thermistor sensor.

4.0 LIGHTING

4.1 Lighting: HID High Light with energy efficient electronic ballasts (other lighting options are available).

4.2 Intensity: 1100µmoles/m²/s measured at 1000mm (39") from the barrier at 20°C and averaged on a 150mm (6") grid.

4.3 Lamps: Combination of 400W metal halide lamps and 400W high pressure sodium lamps.

4.4 Programming: Via VNET controller.

4.5 Lighting Levels: Dimmable lighting, user programs a percentage setpoint from 50% to 100%. Upon initial start-up lamps will go to full intensity for up to 15 minutes and then dim to user setting.

4.6 Lamp Heat: Cooling system sized to remove all heat generated by the lights.

4.7 Lighting Relays: 100% solid state for increased reliability.
**Table 1: Specifications for items 2.1, 2.3, and 2.4**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Specification 2.1</th>
<th>Specification 2.3</th>
<th>Specification 2.4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exterior Dimensions Width x Depth x Height</td>
<td>Interior Dimensions Width x Depth x Height</td>
<td>Growth Area</td>
</tr>
<tr>
<td>TPRB Series</td>
<td>3050mmW x 1780mmD x 2900mmH (10'0&quot;W x 5'10&quot;D x 9'6¼&quot;H)</td>
<td>2360mmW x 1575mmD x 2415mmH (7'9&quot;W x 5'2&quot;D x 7'11&quot;H)</td>
<td>3.7m² (40ft²)</td>
</tr>
<tr>
<td>TPRB-37</td>
<td>3050mmW x 3385mmD x 2900mmH (10'0&quot;W x 11'1¼&quot;D x 9'6¼&quot;H)</td>
<td>2360mmW x 3175mmD x 2415mmH (7'9&quot;W x 10'5&quot;D x 7'11&quot;H)</td>
<td>7.5m² (81ft²)</td>
</tr>
<tr>
<td>TPRB-74</td>
<td>3050mmW x 4990mmD x 2900mmH (10'0&quot;W x 16'4½&quot;D x 9'6¼&quot;H)</td>
<td>2360mmW x 4775mmD x 2415mmH (7'9&quot;W x 15'8&quot;D x 7'11&quot;H)</td>
<td>11.3m² (121ft²)</td>
</tr>
<tr>
<td>TPRB-111</td>
<td>3050mmW x 6600mmD x 2900mmH (10'0&quot;W x 21'7¾&quot;D x 9'6¼&quot;H)</td>
<td>2360mmW x 6395mmD x 2415mmH (7'9&quot;W x 20'11¼&quot;D x 7'11&quot;H)</td>
<td>15.1m² (163ft²)</td>
</tr>
</tbody>
</table>

*Custom sizes are available, contact BioChambers to discuss your requirements.

**Table 2: Specifications for items 2.4, 2.6, and 6.3**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Specification 2.4</th>
<th>Specification 2.6</th>
<th>Specification 6.3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Growth Area</td>
<td>Growth Capacity</td>
<td>Fresh Air</td>
</tr>
<tr>
<td>TPRB Series</td>
<td>3.7m² (40ft²)</td>
<td>9.0m³ (317ft³)</td>
<td>2.8m³/min (100ft³/min)</td>
</tr>
<tr>
<td>TPRB-37</td>
<td>7.5m² (81ft²)</td>
<td>18.1m³ (639ft³)</td>
<td>2.8m³/min (100ft³/min)</td>
</tr>
<tr>
<td>TPRB-74</td>
<td>11.3m² (121ft²)</td>
<td>27.2m³ (961ft³)</td>
<td>3.4m³/min (120ft³/min)</td>
</tr>
<tr>
<td>TPRB-111</td>
<td>15.1m² (163ft²)</td>
<td>36.4m³ (1287ft³)</td>
<td>4.5m³/min (160ft³/min)</td>
</tr>
</tbody>
</table>
5.0 REFRIGERATION
5.1 Condenser: Self-contained water-cooled condenser (other options are available).
5.2 Temperature Valve: No maintenance electronic proportional hot gas bypass system for close temperature control and continuous compressor operation.
5.3 Compressor: Scroll compressor.
5.4 Refrigerant: HFC-404A.
5.5 Evaporator: Copper tube and aluminum fin construction.
5.6 Refrigeration Analysis: Compressor discharge and suction pressures as well as temperatures, and facility water supply and return temperatures are provided and logged for ease of service.
5.7 Safety: One suction pressure switch and one discharge pressure switch with a manual reset is provided on the refrigeration system to prevent short cycling and compressor burn out.
5.8 Barriero Lamploft: Separate heat exchange cooling coil using facility supplied chilled water. System complete with a proportional water valve and water pump for close temperature control.
5.9 Defrost Cycle: N.A.

6.0 AIR DISTRIBUTION (TPRB-37 specification, for other models see tables 1 and 2)
6.1 Air Flow: Downward airflow in the growth area through adjustable wall supply grilles located on either side of the room.
6.2 Fan Speed: Adjustable from 60% to 100% (85% or higher recommended, temperature gradients increase at lower fan speeds). Fan speed can be programmed in the VNET controller enabling researchers to vary the airflow through the plants.
6.3 Fresh Air: Filtered fresh air with a manually adjustable vent: 2.8m³/min (100ft³/min).

7.0 RESEARCH SAVER
7.1 Surge Protector: Over voltage protection of the controller and control circuit from electrical surges.
7.2 Uninterruptible Power Supply (UPS): Protects the controller and control circuit from brown outs, surge conditions, and momentary loss of power.
7.3 Power Phase Detector: Loss of power phase alarm protects the compressor and other components.
7.4 Factory Diagnostics: Via a facility supplied LAN/internet connection a technician at the factory can access the chamber/room to analyze the mechanical, electrical, and control systems.
7.5 Testing: 100% assembled, tested and run-in at the factory before being disassembled for shipment to the site reducing on-site assembly time and disruptions.

8.0 WARRANTY
8.1 Duration: Two years parts and labor.
8.2 Diagnostics: Additional years three to five remote diagnostics service.

9.0 ELECTRICAL
9.1 Service: 120/208V/3-phase/60Hz/4 Wire + ground (50Hz option: 240/415V/3-phase/50Hz/4 Wire + ground). Electrical service to be provided by others (contact BioChambers for utility requirements).
9.2 Electrical Safety: Chamber/Room is CSA inspected (CE where applicable).

10.0 INSTALLATION & CUSTOMER TRAINING
10.1 Manuals: Controller manual, operation & maintenance manual, and electrical schematics provided.
10.2 Training: On-site training on the controller, electrical, and refrigeration system by a factory technician. (Extra charges may apply to chambers/rooms shipped outside of Canada or the U.S.A.)
10.3 Installation: Installation not included. Please consult with BioChambers for installation options.

11.0 OTHER
11.10.b CONSTRUCTION
11.10.1 Door access to plant growth area is lockable.
11.15.b RECEPTACLE
11.15.1 One interior wall mounted GFI receptacle located at the center of the back wall and 460mm (18") above finished floor: 120V/1 phase/6 amp circuit (50Hz option: 240V/1 phase/6 amp circuit).
11.15.2 Consult with engineering for additional receptacles on separate/larger circuits.
**Available Options**

Biochambers Rooms and Chambers are available with a variety of options and accessories. If your research has specific requirements, BioChambers can outfit your equipment to meet your needs. These are just a few of the standard options Biochambers has available. Ask for more information.

<table>
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<tr>
<th>LIGHTING</th>
<th>WARRANTY</th>
<th>REFRIGERATION</th>
<th>RECEPTACLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMMABLE LIGHTING</td>
<td>EXTENDED WARRANTY</td>
<td>EVAPORATOR COATING</td>
<td>PROGRAMMABLE RECEPTACLE</td>
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</table>

<table>
<thead>
<tr>
<th>CONSTRUCTION</th>
<th>DEHUMIDIFICATION</th>
<th>DISPLAY</th>
<th>ADDITIVE CO₂</th>
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<tbody>
<tr>
<td>CUSTOM GROWTH HEIGHT</td>
<td>RELATIVE HUMIDITY DATA LOGGING</td>
<td>DEHUMIDIFICATION BY DESICCANT</td>
<td>CO₂ SCRUBBER</td>
</tr>
<tr>
<td>INSULATED FLOOR</td>
<td>DEHUMIDIFICATION BY REFRIGERATION</td>
<td>LONG LIFE DISPLAY</td>
<td>ADDITIVE CO₂</td>
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<tr>
<th>CONDENSER</th>
<th>BENCHING</th>
<th>CONTAINMENT</th>
<th>TEMPERATURE</th>
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<tr>
<td>REMOTE AIR COOLED CONDENSER</td>
<td>REMOTE AIR COOLED CONDENSER W/EC MOTOR</td>
<td>METRO STYLE BENCHING</td>
<td>LOW TEMPERATURE DEFROST</td>
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<tr>
<td>EXTENDED TEMPERATURE RANGE</td>
<td>HIGH AMBIENT PANEL COOLING</td>
<td>CONTAINMENT HEPA FILTRATION</td>
<td>CONTAINMENT +/- PRESSURE</td>
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| IRRIGATION | |
|------------||
| HOSE BIB MANUAL | |

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1. Control Panel
2. VNET View or VNET Touch Display
4. Fresh Air
5. Exhaust Air
6a. Chamber Refrigeration System
6b. Lamp Loft Cooling System
7. Instrument Ports
8. Ballast Rack
9. Viewing Window
10. Fixed Height Lamp Canopy
11. N/A
12. Air Plenum
13. Receptacle

CUSTOM SIZES AVAILABLE. CONTACT BIOCHAMBERS TO DISCUSS YOUR REQUIREMENTS.

BIOCHAMBERS CAN MANUFACTURE THIS PRODUCT WITH THE CONTROL PANEL MOUNTED ON THE RIGHT SIDE UPON ADVANCED REQUEST.

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Custom sizes available. Contact BioChambers to discuss your requirements.

BioChambers can manufacture this product with the control panel mounted on the right side upon advanced request.

Metric [Imp]
- Ethernet connection
- Purified water connection (if Humidity option selected)
- Electrical connection
- 04” Floor Drain Location
- Cooling water or refrigeration line connections for condenser
- Lamp loft cooling water connections
- Electrical line connections for air-cooled condenser (if option selected)

Incorporated

477 Jarvis Ave.
Ph (204) 589-8900
Fax (204) 582-1024
Winnipeg MB
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This document and the information disclosed are confidential and proprietary to BioChambers Inc. Disclosure of such information is expressly forbidden without prior written consent.

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