



# algae Percival model AL-41L4

## insulation

- Woodless construction using 2" thick foamed-in-place non-CFC Urethane insulation with 93% closed cell, R-value of 12.5, K-value of 0.16 and density of 2.2 lbs/ft<sup>3</sup>

## door

- One door opening 36.8" x 57.5" (93.5 cm x 146 cm) provides full access to the chamber interior (magnetic gasket provides a tight seal to door frame)

## interior space

- 37.2 ft<sup>3</sup> (1.1 m<sup>3</sup>) with work area of 27.2 ft<sup>2</sup> (2.5 m<sup>2</sup>) provided on four shelves

## shelving

- Four tiers of white epoxy coated steel wire shelving (each shelf is 27"D x 36.3"W [68.6 cm x 92.1 cm])
- Shelves are vertically adjustable in ½" increments
- Maximum growing height is 8.6" (21.7 cm) per tier with all four shelves installed

## finish

- Interior and exterior painted with highly reflective, environmentally friendly, high temperature baked white powder coating

## refrigeration

- Self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended life and close temperature control (this continuous running condensing unit ensures precise temperature control by alternately cycling refrigerant and hot gas to coil; this also prolongs life of compressor, and eliminates risk of ice build up in coil)
- Solenoid valves have an extended stem for quiet and long life operation
- Ceiling mounted evaporator coil incorporates twin air circulation fans in aluminum housing (heat rejection to ambient [standard chamber] = 4500 BTU/hr.)

## temperature range

- 7°-44°C (±0.5°C) lights on and 2°-44°C (±0.5°C) lights off

## temperature safety limit controls

- (Experiment Protection) Adjustable high and low temperature controls, audible alarms, and visual indicators provided
- Controls shut down all power to the chamber, activating alarms (when the temperature returns to the normal range the system will automatically reset)

## humidity control (optional)

- Additive humidity control of higher than ambient to 75% (±5%) lights on for set temperatures between 15° to 30°C
- Humidity control of higher than ambient to 95% (±5%) lights off for set temperatures between 15° to 30°C
- Extended humidity ranges available  
*See other specification sheets or consult factory for additional information.*

## options (most popular)

- IntellusUltra Connect (C9)
- IntellusUltra Connect and Android-based Touchscreen (C9T)
- IntellusUltra (standard) and Android-based Touchscreen (C8T)
- Ultrasonic Humidifier with advanced RH Sensor (H11)
- Dehumidification via independent dehumidifying coil with reheat heaters and Ultrasonic Humidifier (H12)
- Ultrasonic Humidifier with Electronic RH sensor (H14)
- CO<sub>2</sub> enrichment package
- Door with observation window and cover (Q2)
- Door with fresh air ports (Q1)
- Self-contained water-cooled condensing unit
- Dry alarm contacts
- Dimmable lighting (closed loop with PAR light sensor) (Q22)
- Dimmable lighting (open loop control) (Q23)
- Extended temperature ranges available  
*See other catalog sheets or consult factory for additional accessories.*

## convenience receptacles

- Two 120/1/60 convenience receptacles provided inside chamber

## electrical service requirements

- 120/1/60 - two grounded cords each with NEMA 5-15P plug provided for standard chamber
- Cord #1 RLA=9.7 & cord #2 RLA=9.5 (combined MCA=24)



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