



Drying Oven

C-30



Applications

This chamber has been designed to facilitate the drying of prepared slides which contain chromosome samples for cytogenetic analysis. Compare your own requirements to the specifications listed here.

Controller

The IntellusUltra™ controller is capable of controlling temperature, humidity, CO₂ and lighting events. The controller is a single-board electronic solid-state design with vacuum fluorescent display and ten-key membrane touch pad. Programs can be created in four modes: manual, diurnal, 24-hour, and non circadian..

Lighting System

Two 15 watt bulbs to provide interior lighting.

Cabinet Construction

22-gauge interior and 18-gauge exterior electro-zinc plated steel construction. All seams and joints on the outer and inner shells are welded. Inner shell is supported by a non-compressing and non-thermal conducting material to lock the inner liner in place without a metal-to-metal bond to the outer case. The chamber is completely self-contained, suitable for stacking

Insulation

Woodless construction using CFC free insulation. Overall wall thickness is 2" (5.1 cm), ample insulation for maintenance of stated temperature range.

Door

One door opening 26.8" x 29.6 (67.9 cm x 75.2 cm) provides full access to the chamber interior. Clear 18" x 18" clear, plexiglass panel that has two 5"x14" access openings that are covered with hinged clear plexiglass panels. These openings prevent rapid air exchange when accessing the shelf. A magnetic gasket provides a tight seal to door frame.

Air Flow

Operating conditions within the drying chamber are maintained by conditioned air. Airflow over the shelf area is controlled by two infinitely variable speed fans moving approximately 400 cfm with speeds adjustable from 0 to 100%.

Air Exhaust

A small blower is provided to draw air out of the chamber. This discharged air, which is manually variable from 4 to 7 cfm, leaves the blower through a 1.5" duct adapter that can be connected to an exhaust system.

Temp Range Lights On	Interior Space (volume)		Work Area		Maximum Growing Height		Exterior Dimension in (cm)			Light Intensity 6" from lamp μmoles/m ² /s	# of Tiers
	°C	ft ³	m ³	ft ²	m ²	in	cm	(W)	(D)		
21-30 +/-0.2	4.4	0.1	2.8	0.3	12	30.5	37 (93.9)	26 (66.1)	46 (116.8)	NA 2/15 Watt	1

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Interior Space

4.4 ft³ (0.1 m³) with a work area 2.8 ft² (0.3 m²) provided on a single shelf.

Shelving

One shelf of polyester coated steel wire shelving. Each shelf is 15.3" D x 26.5" W (38.8 cm x 67.3 cm). Shelves are supported by shelf clips which allows 1/2" vertical adjustments. The maximum clearance between shelves is 12" (30.5 cm) per tier with all two shelves installed.

Finish

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

Refrigeration

1/5 h.p. 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 the coil; this also prolongs the life of the compressor, and eliminates the risk of ice build up in the coil. Solenoid valves have an extended stem for quiet and long life operation. Evaporator coil is mounted on the rear chamber wall, and incorporates an air circulation fan. Heat Rejection - 3700 Btu/hr.

Temperature Range

21° - 30° C lights on and lights off (± 0.5° C).

Temperature Safety Limit Controls

(Experiment Protection) Adjustable high and low temperature controls, audible alarms and visual indicators are provided. The controls shutdown all the power to the chamber, and activates alarms. When the temperature returns to the normal range the system will automatically reset.

Humidity Control (Included)

Humidity control from the following ranges: 28% to 75% (+/- 5% at 28° C with 4 cfm air exhaust & 25° C/50% r.h. ambient, 39% at 21° C with 4 cfm air exhaust % 25° C/65% r.h. ambient. Humidity provided via pan type humidifier, reservoir and chamber floor drain provided. Demineralized water supply recommended

Options (most popular)

IntellusUltra™ Web Server with Gateway Device (C9), Communications Software (C9+), IntellusUltra™ with Touchscreen and Internet capabilities (C10), Stacking Angles, (Q18) Contact Geneva Scientific for additional options available.

Convenience Receptacles

One 115/1/60 convenience receptacle provided inside chamber.

Electrical Service Requirements

115/1/60 - 8 amps (total) for standard chamber. Power cord and grounded plug provided.

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