


# Plant Tissue Culture Chambers

Our Model TCS33SD was designed for micropropagating *Arabidopsis thaliana* or other species from plant tissue cultures in tightly controlled temperature and lighting conditions. The chamber has four slide out shelves, with low velocity conditioned air delivered uniformly under each shelf from a louvered plenum running down the rear wall of the chamber and extending under each shelf. The louvers are adjustable so that very tight temperature uniformity can be achieved throughout the chamber at different temperatures (air density changes with temperature). There are six fixed lamp positions over each shelf to deliver dimmable light intensities from 0-370 micromoles at 25°C. The highly reflective white walls increase the effectiveness of the lamps, as the lamps are sized to reach fully across each shelf. A free floating temperature sensor can be placed at the level of the research material in the center of the shelf, so the correct temperature is delivered with plus or minus 1°C accuracy. The chamber can be run at temperatures as low as 7°C with lights on (for vernalization studies). It is also capable of functioning as an incubator, reaching temperatures of 40°C or higher, if needed.

- ~ Microprocessor controlled temperature with digital display
- ~ 7-40°C temperature range with lights on
- ~ Dual valve hot gas bypass on refrigeration system
- ~ Digital clock-controlled hi/low temperature settings and light settings
- ~ Four tiers of fixed-position trays, each with a shelf and six LED lights
- ~ LED lights are dimmable with a separate dimmer for each light bank
- ~ Four slide-out shelves are epoxy-coated steel wire capable of holding 55 lbs (25 kg)
- ~ Approximately 8" of growth height between shelf and lights
- ~ Solid, insulated door with door lock
- ~ Casters, locking, 4"
- ~ Height of chamber sized to fit through doorways
- ~ Powder coat white, grey, or black enamel exterior finish over steel
- ~ Powder coat white aluminum interior with a stainless steel bottom pan
- ~ Warranted for one year on labor, two years on parts, and five years on the compressor (part only)



Model TCS33SD

Model	Style	Capacity (ft <sup>3</sup> /liters)	Dimensions			# Shelves and Size	# Lights (6 per shelf)	Electrical (domestic)	HP	Shipping Weight (lbs/kg)
			Exterior (in/cm)	W	Interior (in/cm)					
TCS33SD		27/765	33/84	W	29/74	4 27" x 22"	24 (6 per shelf)	115/60/1 5-20P	1/3	500/225
			29/74	D	27/69					
			78.5/199	H	57.5/146					