

Two-Zone Thermal Shock Test Chamber



Serving the Scientific, Medical and Research industries since 1945

LABEC Two-Zone Thermal Shock

Test Chamber QT2 series consist of two separately controlled hot and cold cabinets. Testing samples are transferred between the two cabinets for rapid temperature changes. These thermal shock test chambers are ideal for testing small components/assemblies to help find product flaws before leaving the factory.

Features include:

- Direct-drive system for reliable transfer between cabinets (maximum load 5kg).
- Compact design with integrated mechanical refrigeration.
- Built-in timer allows chamber start or shut down automatically.
- RS232 communication port is available for computer connection.
- Universal castor and levelling pads for easy movement.
- Cable port for power-on testing.
- 5" touch screen controller.



Laboratory Equipment Pty Ltd

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Specifications

Model	QT2-40A	QT2-55A	QT2-40B	QT2-55B
Test Area (W×H×D)	200×130×200mm 7.8"×5.1"×7.8"	350×280×350mm 13.8"×11.0"×13.8"	200×130×200mm 7.8"×5.1"×7.8"	350×280×350mm 13.8"×11.0"×13.8"
Cold Cabinet (W×H×D)	400×500×400mm 15.7"×19.7"×15.7"	550×650×550mm 21.6"×25.6"×21.6"	400×500×400mm 15.7"×19.7"×15.7"	550×650×550mm 21.6"×25.6"×21.6"
Hot Cabinet (W×H×D)	400×400×400mm 15.7"×15.7"×15.7"	550×550×550mm 21.6"×21.6"×21.6"	400×400×400mm 15.7"×15.7"×15.7"	550×550×550mm 21.6"×21.6"×21.6"
Load Resistance	2.5Kg	5.0Kg	2.5Kg	5.0Kg
Pre-heat Time	40min	40min	40min	40min
Pre-cool Time	70min	80min	80min	90min
High Temp. Range	60°C~200°C	60°C~200°C	60°C~200°C	60°C~200°C
Low Temp. Range	A=-40°C~-10°C		B=-60°C~-10°C	
Specimen Transfer Time	In 10 seconds			
Refrigeration	Cascade Refrigeration System			
Exterior material	stainless steel with baking paint			
Interior material	SUS304# stainless steel			
Cooling Method	Water/Air			
Temp. Accuracy	±2°C			
Control Mode	PID + SSR			
Refrigerant	Environmental Friendly Refrigerant			
Security System	Overheat Protector, Compressor overload protector, Controller protector, Motor overload protector			

Chamber Dimensions

Model	Interior Dimension (W×H×D)	Interior Volume	Exterior Dimension (W×H×D)	Specimen Loading Weight
QT3-56A/B/C	400×350×400mm 15.7"×13.8"×15.7"	56L	1450×1950×1600mm 57.1"×76.8"×63.0"	2.5Kg
QT3-80A/B/C	500×400×400mm 19.7"×15.7"×15.7"	80L	1550×2050×1600mm 61.0"×80.7"×63.0"	5.0Kg
QT3-150A/B/C	600×500×500mm 23.6"×19.7"×19.7"	150L	1650×2150×1800mm 64.9"×84.7"×70.9"	7.5Kg
QT3-225A/B/C	750×600×500mm 29.5"×23.6"×19.7"	225L	1850×2250×1800mm 72.8"×88.6"×70.9"	7.5Kg

