Better Quality Better Life

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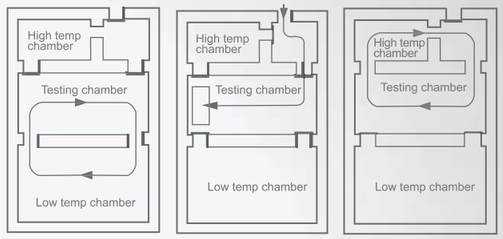
Three Zone Thermal Shock Chamber BTS

Features

- Energy saving: Less pre-cooling time and pre-heating compared to previous type, power consumption is reduced Maximum 32%.
- Improvements in reliability: minimize variations in the temp attainment time that affect test results.
- Automatic defrosting function can ensure 24hr (10 circles) continuous operation. And hand-operated defrosting is also available during long term test.
- Safety design to global requirements: All our thermal shocks use the latest technologies to care user & sample safety.
- Superior craftsmanship in detail, all pipelines is protected with Nitrogen during welding, and further protected by surface coating.



Low temp shocking　Ambient temp shocking　High temp shocking

Model Name

B	T	S	– XXX – 3X

B=BACL design　×××=Capacity（Liters）
T=Thermal　3=Three zone type
S=Shock　A=Lowest temp shock range (-40℃)

Program setting

Working Principle

There are total three sub-chambers inside. Sample is placed in testing chamber, more extreme temperature than test temperature can be set in high-temperature chamber & low-temperature chamber. During low temperature shocking, cold chamber valve open, and low-temperature chamber working together with testing chamber. When converted into high-temperature shocking, cold chamber door closed, hot chamber valve is opened, and testing chamber working together with high-temperature chamber.
Conversion of mechanical action (transferring from high temperature to low temperature or low temperature to high temperature) can be completed in less than 3 second, and the temperature can be quickly stabilized. During the whole test, specimen is no need to be moved, and without any human intervention.

Operating screen

Defrost setting

Specification & technical data

Model		BTS-50-3	BTS-80-3	BTS-100-3	BTS-150-3	BTS-250-3
Capacity（L）		50	80	100	150	250
Interior dimensions	H×W×D（mm）	350×400×350	400×500×400	500×500×400	500×600×500	600×700×600
Temp. range		-80℃ ~+200℃,		-70~+200℃,	-55~+120℃,	
Ramp range		-65℃ ~+150℃,		-55~+150℃,	-40~+150℃,	
Thermal shock mode		Three zone type:Samples are remained stationary, use pneumatic Control System to switch the air flow between two chambers or among three chambers				
Driving device		Pneumatic air cylinder				
Recovery time		≤ 5min				
Temperature constancy		±0.5℃				
Heat up time（hot chamber）		Room temp ~+200℃≤ 30min				
Pull down time（cold chamber）		0~-60℃≤ 60min				
Material	Interior	SUS 304 Stainless Steel Plate				
	Exterior	SUS304 Stainless Steel Plate with brushed /coated finishing or steel with spray- coating				
	Insulation	PU+ Glass Fiber Wool				
Cooling system		Tecumseh Hermetic/ GEA Bock Semi-Hermetic compressor, water or air cooled				
Refrigerant		HFC R404A、R23				
Heating system		Finned Stainless steel tube heating system/Iron-chrome wire heater				
Safety protection		Leakage protection, Overload NFB, Overload protection for compressor & blower, overheating & dry heat protection for humidification system, Over Current Protection, Phase-sequence Protection, over-temperature protection				
Standard features		Cable port ℄ 50×1pc, silicone stopper×1pc, sample holder×2pc				
Power(KW)		Depend on different low temp & capacity size				
Meet standards		GB2423.22-89Na, GJB150.5-86, MIL-STD-810-503.2				

Note：1.We reserve the right to change specifications without prior notice
2.Performance is measured in the ambient temperature of + 25℃ at available space.
3.Customized sizes and configurations available